

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081718\
 Data File : VF059980.D
 Acq On : 17 Aug 2018 18:32
 Operator : VA/AP
 Sample : VSTDICCC050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

apatel
 8/20/2018 11:48:18 AM

Quant Time: Aug 18 00:01:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 17 23:38:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	132962	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	182565	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	195911	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	131207	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	120944	46.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.42%	
35) Dibromofluoromethane	4.31	113	92536	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
50) Toluene-d8	7.72	98	206344	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	
62) 4-Bromofluorobenzene	11.52	95	128842	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	106263	47.19	ug/l	100
3) Chloromethane	1.07	50	47058	40.58	ug/l	100
4) Vinyl Chloride	1.12	62	59466	44.68	ug/l	100
5) Bromomethane	1.32	94	55917	42.94	ug/l	100
6) Chloroethane	1.39	64	32515	46.75	ug/l	100
7) Trichlorofluoromethane	1.49	101	185159	51.46	ug/l	100
8) Diethyl Ether	1.70	74	26797	46.61	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.86	101	85734	47.47	ug/l	100
10) Methyl Iodide	1.93	142	112976	49.09	ug/l	100
11) Tert butyl alcohol	2.69	59	34750	217.85	ug/l	100
12) 1,1-Dichloroethene	1.83	96	57724	46.16	ug/l	100
13) Acrolein	2.09	56	26189	310.79	ug/l	100
14) Allyl chloride	2.19	41	99612	46.93	ug/l	100
15) Acrylonitrile	3.08	53	62700	236.60	ug/l	100
16) Acetone	2.34	43	168025	201.74	ug/l	100
17) Carbon Disulfide	1.84	76	172539	43.33	ug/l	100
18) Methyl Acetate	2.45	43	62306	37.67	ug/l	100
19) Methyl tert-butyl Ether	2.54	73	198571	47.01	ug/l	100
20) Methylene Chloride	2.28	84	69113	39.36	ug/l	100
21) trans-1,2-Dichloroethene	2.41	96	59953	44.97	ug/l	100
22) Diisopropyl ether	2.93	45	222276	48.50	ug/l	100
23) Vinyl Acetate	3.34	43	487847	259.86	ug/l	100
24) 1,1-Dichloroethane	3.00	63	150837	50.01	ug/l	100
25) 2-Butanone	4.51	43	139954	214.80	ug/l	100
26) 2,2-Dichloropropane	3.76	77	134614	51.14	ug/l	100
27) cis-1,2-Dichloroethene	3.64	96	60507	49.76	ug/l	100
28) Bromochloromethane	3.90	49	37693	43.81	ug/l	100
29) Tetrahydrofuran	4.27	42	51433	221.03	ug/l	100
30) Chloroform	4.05	83	163967	47.69	ug/l	100
31) Cyclohexane	3.86	56	62053	45.79	ug/l	100
32) 1,1,1-Trichloroethane	4.29	97	165633	49.46	ug/l	100
36) 1,1-Dichloropropene	4.46	75	93585	45.43	ug/l	100
37) Ethyl Acetate	4.30	43	59032	48.59	ug/l	100
38) Carbon Tetrachloride	4.18	117	145114	49.03	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081718\
 Data File : VF059980.D
 Acq On : 17 Aug 2018 18:32
 Operator : VA/AP
 Sample : VSTDICCC050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDICCC050

Manual Integrations
 APPROVED

apatel
 8/20/2018 11:48:18 AM

Quant Time: Aug 18 00:01:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 17 23:38:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	74443	47.71	ug/l	100
40) Benzene	4.82	78	178463	50.92	ug/l	100
41) Methacrylonitrile	4.93	41	27016	46.93	ug/l	100
42) 1,2-Dichloroethane	5.12	62	146005	48.09	ug/l	100
43) Isopropyl Acetate	7.12	43	63867	48.24	ug/l	100
44) Trichloroethene	5.68	130	67608	49.40	ug/l	100
45) 1,2-Dichloropropane	6.41	63	51264	51.28	ug/l	100
46) Dibromomethane	6.27	93	47657	47.00	ug/l	100
47) Bromodichloromethane	6.55	83	134769	50.33	ug/l	100
48) Methyl methacrylate	6.88	41	48590	49.23	ug/l	100
49) 1,4-Dioxane	6.88	88	8053	1019.25	ug/l	100
51) 4-Methyl-2-Pentanone	8.42	43	287630	232.62	ug/l	100
52) Toluene	7.79	92	127944	48.47	ug/l	100
53) t-1,3-Dichloropropene	8.44	75	112709	49.57	ug/l	100
54) cis-1,3-Dichloropropene	7.47	75	113322	51.71	ug/l	100
55) 1,1,2-Trichloroethane	8.65	97	53103	49.06	ug/l	100
56) Ethyl methacrylate	8.77	69	64199	50.91	ug/l	100
57) 1,3-Dichloropropane	9.01	76	93820	48.80	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.79	63	31315	302.06	ug/l	100
59) 2-Hexanone	9.64	43	231632	225.47	ug/l	100
60) Dibromochloromethane	8.87	129	99455	50.76	ug/l	100
61) 1,2-Dibromoethane	9.15	107	66905	49.00	ug/l	100
64) Tetrachloroethene	8.32	164	66789	45.42	ug/l	100
65) Chlorobenzene	9.95	112	181075	47.37	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.08	131	83628	47.60	ug/l	100
67) Ethyl Benzene	10.05	91	323798	47.19	ug/l	100
68) m/p-Xylenes	10.28	106	213080	89.23	ug/l	100
69) o-Xylene	10.84	106	122289	49.79	ug/l	100
70) Styrene	10.91	104	183661	46.96	ug/l	100
71) Bromoform	10.90	173	60685	45.88	ug/l	100
73) Isopropylbenzene	11.24	105	382334	48.73	ug/l	100
74) N-amyl acetate	11.47	43	116184	50.07	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.80	83	75207	46.99	ug/l	100
76) 1,2,3-Trichloropropane	11.90	75	66145	46.23	ug/l	100
77) Bromobenzene	11.60	156	106645	48.17	ug/l	100
78) n-propylbenzene	11.70	91	461311	47.35	ug/l	100
79) 2-Chlorotoluene	11.82	91	291314	48.82	ug/l	100
80) 1,3,5-Trimethylbenzene	11.93	105	348914	49.12	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.96	75	28422m	38.53	ug/l	
82) 4-Chlorotoluene	11.99	91	314887	48.46	ug/l	100
83) tert-Butylbenzene	12.22	119	347351	49.48	ug/l	100
84) 1,2,4-Trimethylbenzene	12.30	105	365949	49.06	ug/l	100
85) sec-Butylbenzene	12.40	105	450371	49.03	ug/l	100
86) p-Isopropyltoluene	12.55	119	383335	47.21	ug/l	100
87) 1,3-Dichlorobenzene	12.57	146	194794	46.55	ug/l	100
88) 1,4-Dichlorobenzene	12.65	146	197694	48.25	ug/l	100
89) n-Butylbenzene	12.93	91	388896	49.54	ug/l	100
90) Hexachloroethane	13.00	117	92653	50.71	ug/l	100
91) 1,2-Dichlorobenzene	13.03	146	195587	48.57	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.72	75	21978	48.71	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081718\
Data File : VF059980.D
Acq On : 17 Aug 2018 18:32
Operator : VA/AP
Sample : VSTDICCC050
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM

Quant Time: Aug 18 00:01:14 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 17 23:38:00 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	161512	49.43	ug/l	100
94) Hexachlorobutadiene	14.26	225	108977	50.51	ug/l	100
95) Naphthalene	14.53	128	233744	49.19	ug/l	100
96) 1,2,3-Trichlorobenzene	14.68	180	159823	50.63	ug/l	100

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

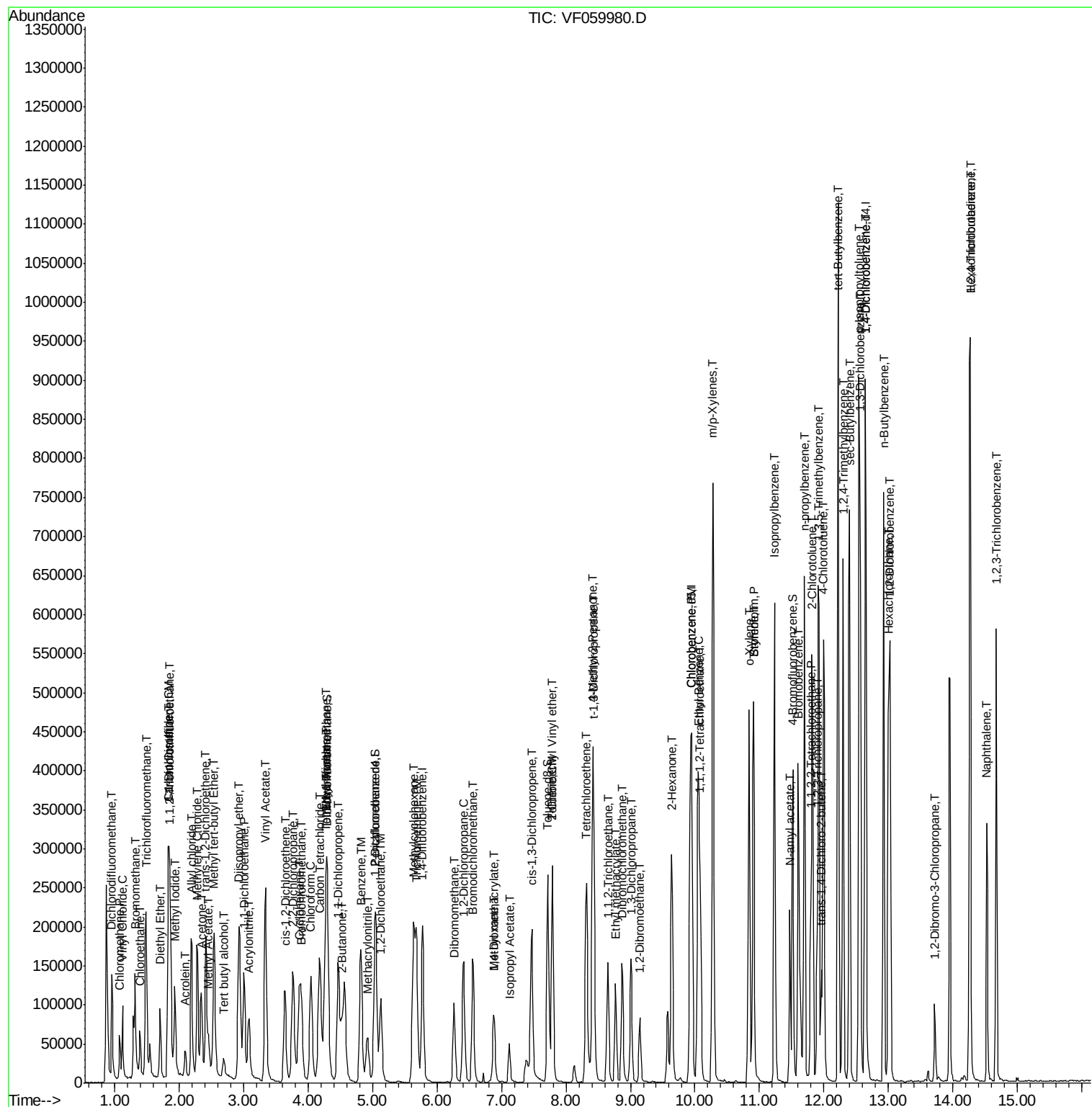
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF081718\
 Data File : VF059980.D
 Acq On : 17 Aug 2018 18:32
 Operator : VA/AP
 Sample : VSTDICCC050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 34 Sample Multiplier: 1

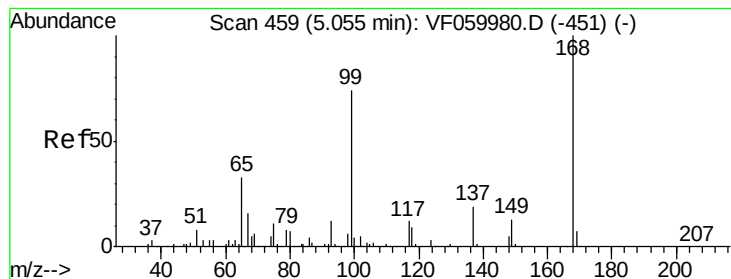
Instrument :
 MSVOA_F
 Client Sample Id :
 VSTDICCC050

Manual Integrations
 APPROVED

apatel
 8/20/2018 11:48:18 AM

Quant Time: Aug 18 00:01:14 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 17 23:38:00 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 132962

Ion Ratio Lower Upper

168 100

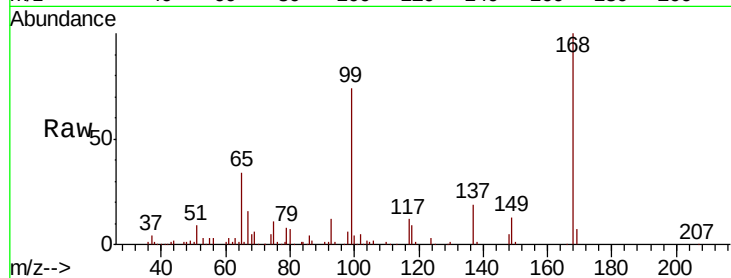
99 73.8 59.0 88.6

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

40000

30000

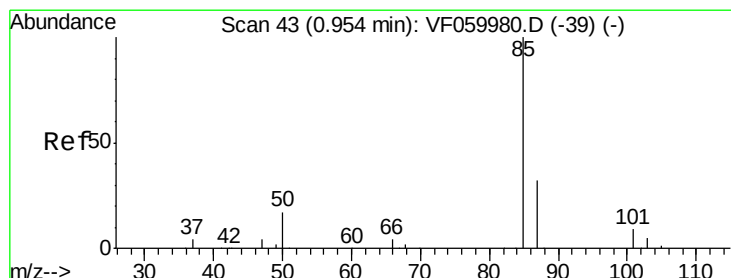
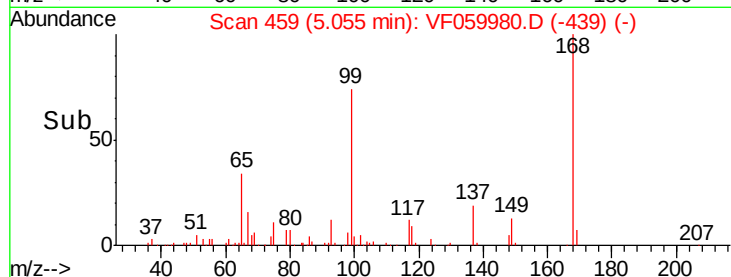
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: 47.19 ug/l

RT: 0.95 min Scan# 43

Delta R.T. 0.00 min

Lab File: VF059980.D

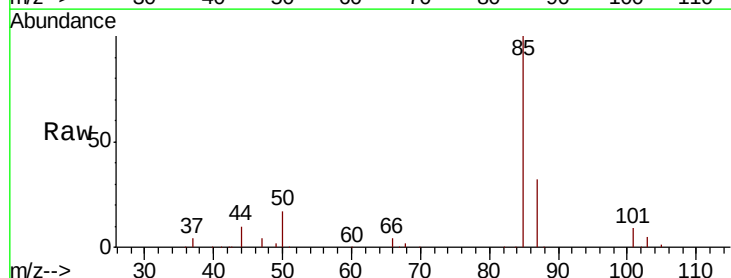
Acq: 17 Aug 2018 18:32

Tgt Ion: 85 Resp: 106263

Ion Ratio Lower Upper

85 100

87 31.8 15.9 47.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

80000

60000

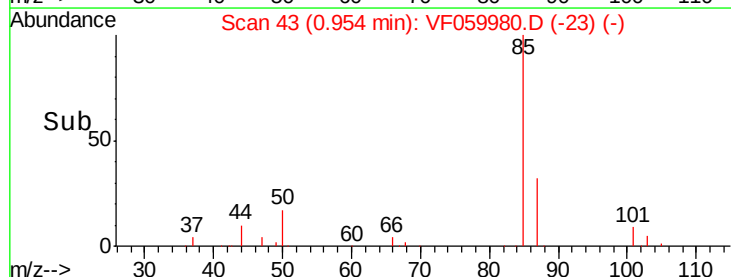
40000

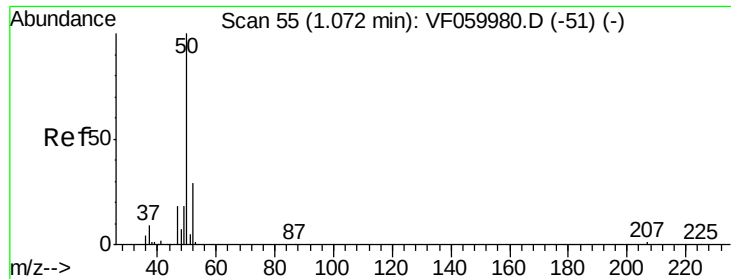
20000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 40.58 ug/l

RT: 1.07 min Scan# 55

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 47058

Ion Ratio Lower Upper

50 100

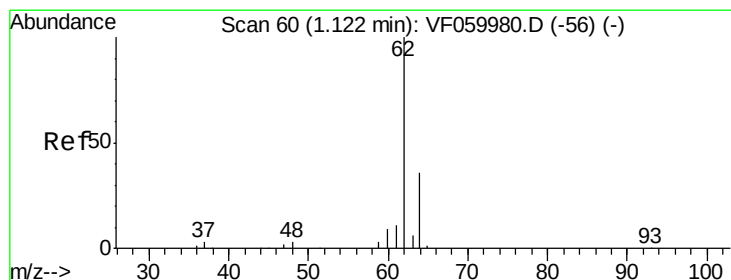
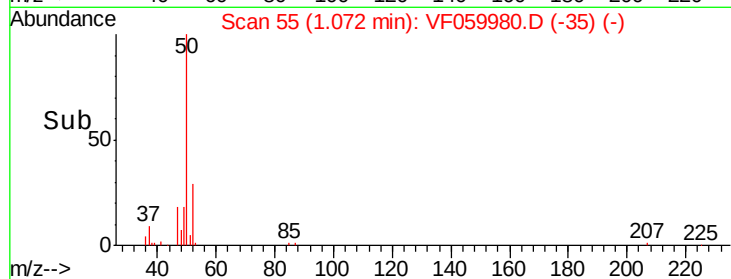
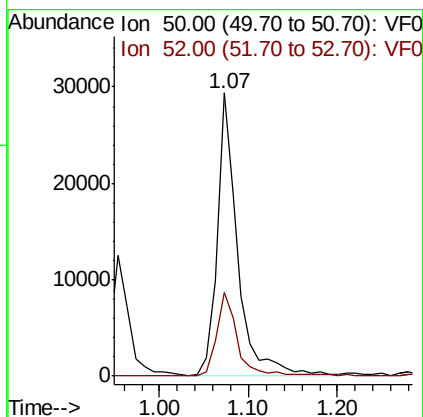
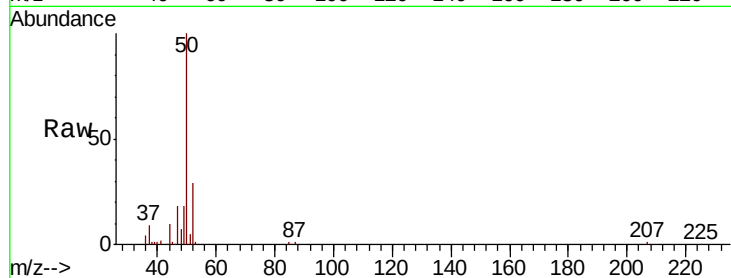
52 29.5 23.6 35.4

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#4

Vinyl Chloride

Concen: 44.68 ug/l

RT: 1.12 min Scan# 60

Delta R.T. 0.00 min

Lab File: VF059980.D

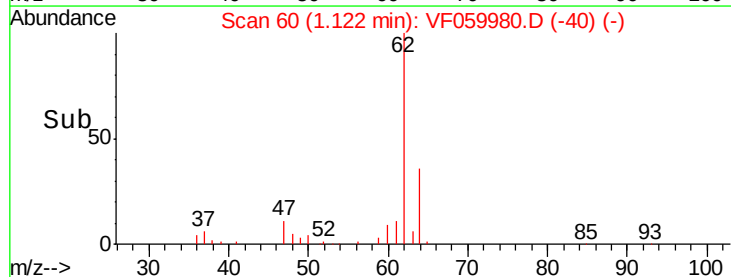
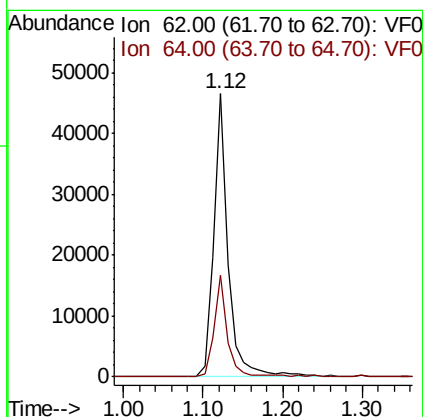
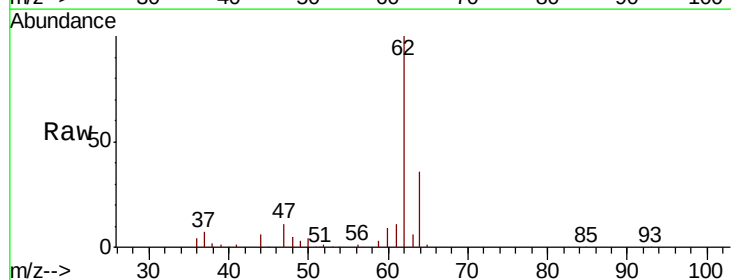
Acq: 17 Aug 2018 18:32

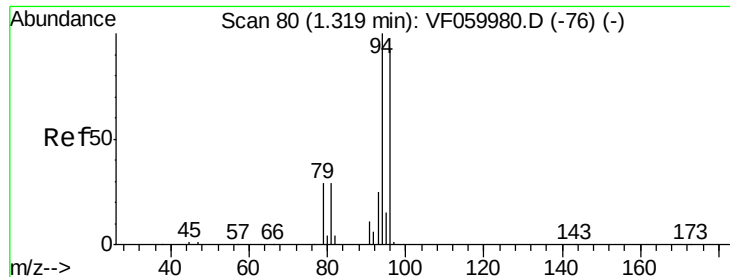
Tgt Ion: 62 Resp: 59466

Ion Ratio Lower Upper

62 100

64 35.9 28.7 43.1





#5

Bromomethane

Concen: 42.94 ug/l

RT: 1.32 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 94 Resp: 55917

Ion Ratio Lower Upper

94 100

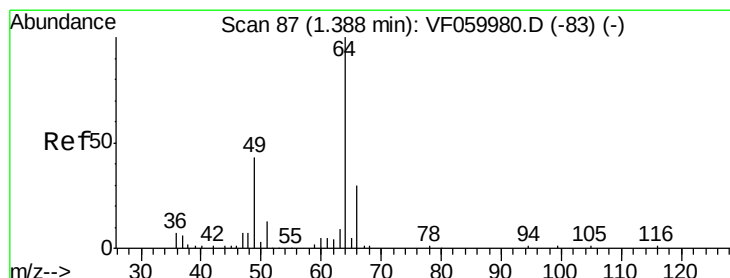
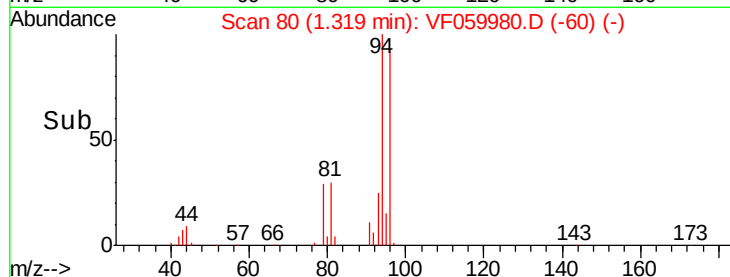
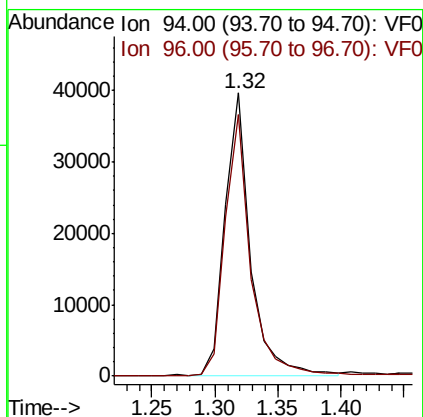
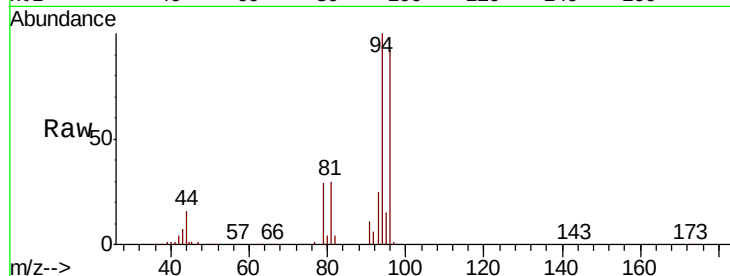
96 92.4 73.9 110.9

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#6

Chloroethane

Concen: 46.75 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF059980.D

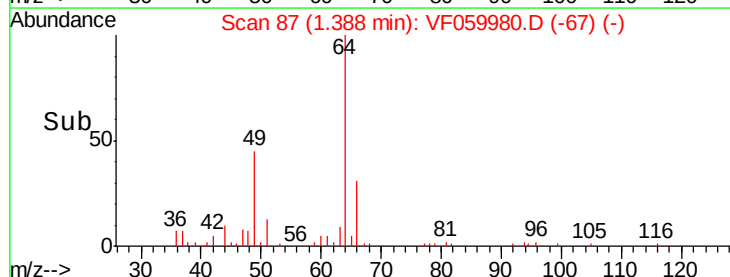
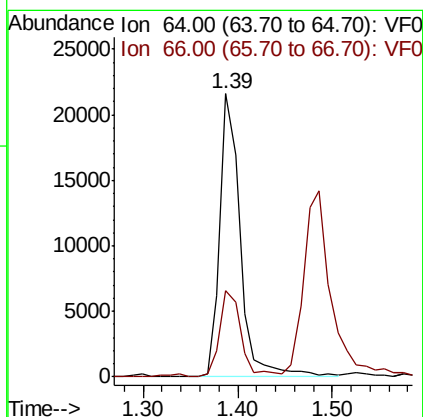
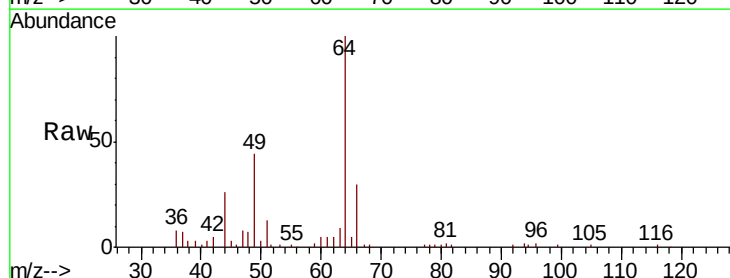
Acq: 17 Aug 2018 18:32

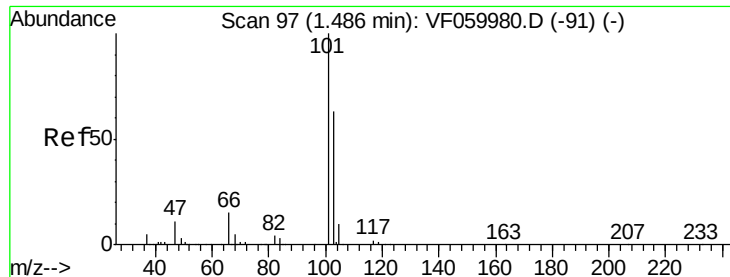
Tgt Ion: 64 Resp: 32515

Ion Ratio Lower Upper

64 100

66 30.5 24.4 36.6





#7

Trichlorofluoromethane

Concen: 51.46 ug/l

RT: 1.49 min Scan# 97

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 101 Resp: 185159

Ion Ratio Lower Upper

101 100

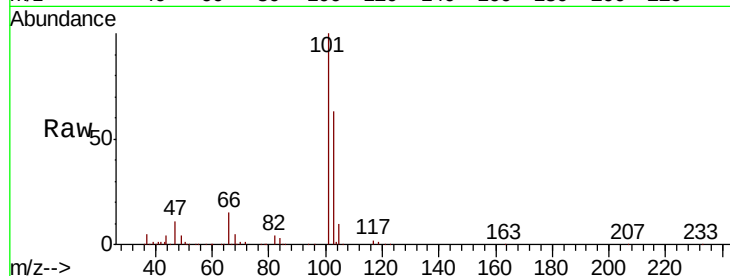
103 63.5 50.8 76.2

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

100000

80000

60000

40000

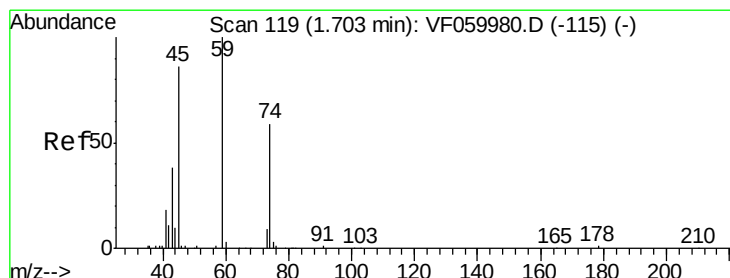
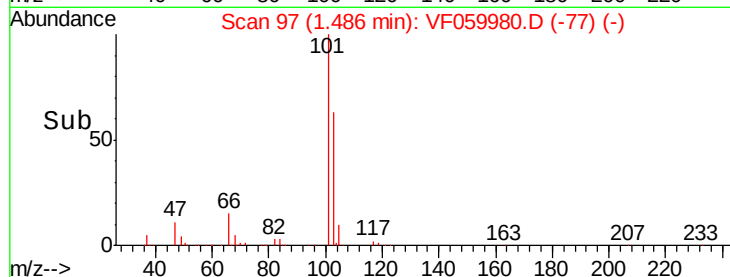
20000

0

1.49

1.40 1.50 1.60 1.70

Time-->



#8

Diethyl Ether

Concen: 46.61 ug/l

RT: 1.70 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF059980.D

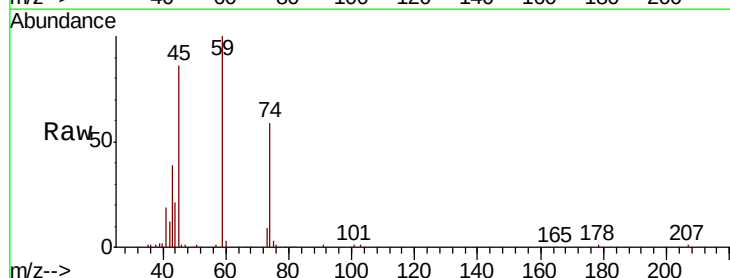
Acq: 17 Aug 2018 18:32

Tgt Ion: 74 Resp: 26797

Ion Ratio Lower Upper

74 100

45 146.9 73.5 220.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

25000

20000

15000

10000

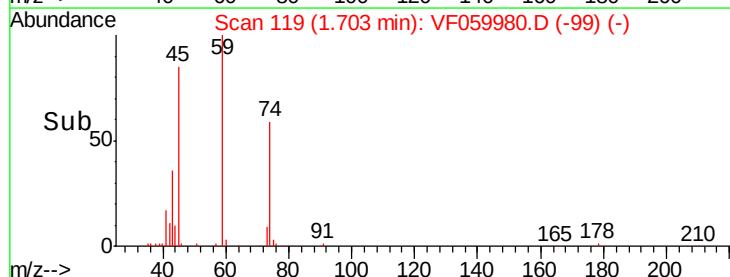
5000

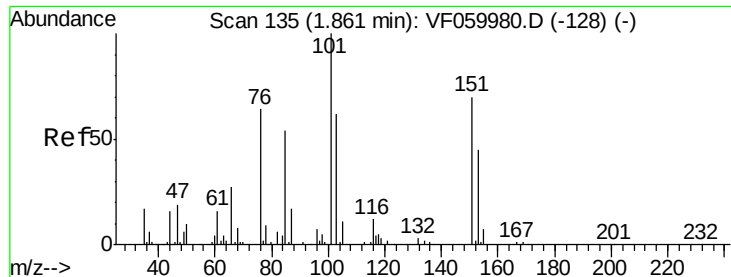
0

1.70

1.60 1.70 1.80

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.47 ug/l

RT: 1.86 min Scan# 135

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

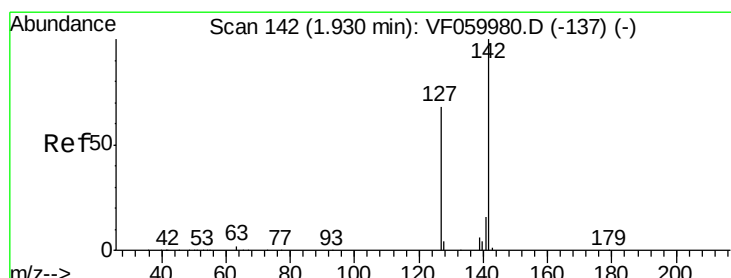
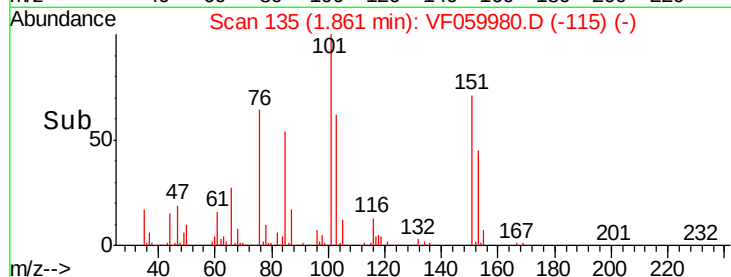
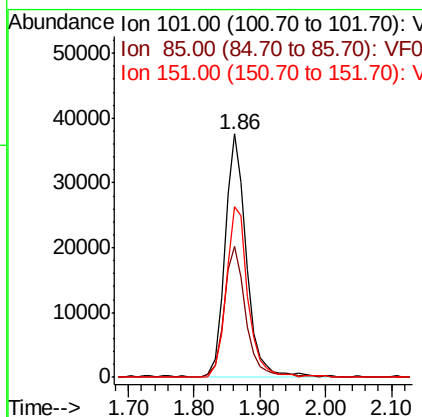
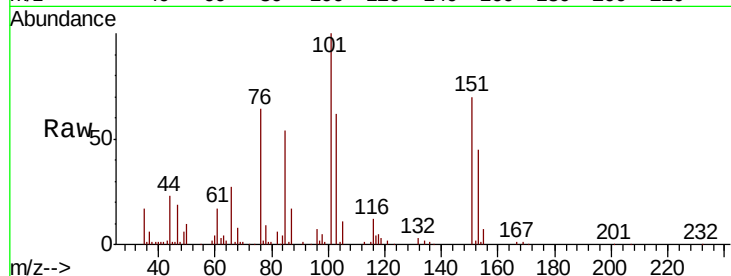
ClientSampleId :

VSTDICCC050

Tot Ion:	101	Resp:	85734
Ion Ratio	Lower	Upper	
101	100		
85	53.8	43.0	64.6
151	70.2	56.2	84.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#10

Methyl Iodide

Concen: 49.09 ug/l

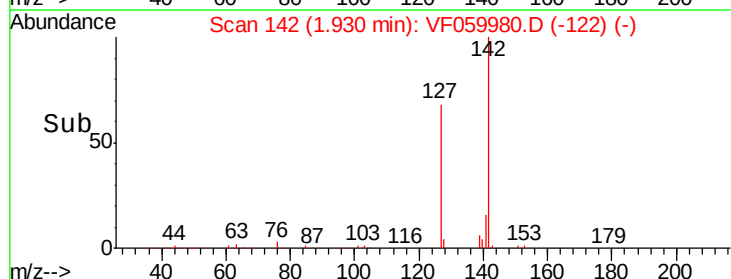
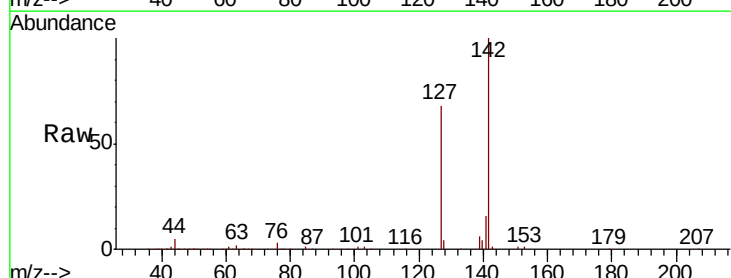
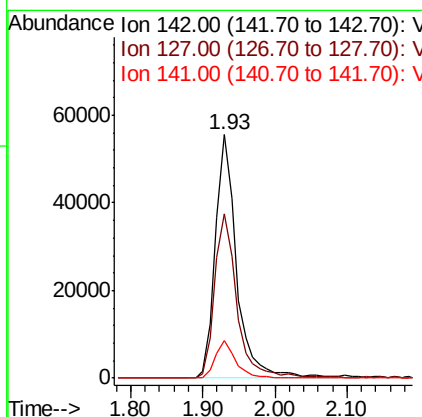
RT: 1.93 min Scan# 142

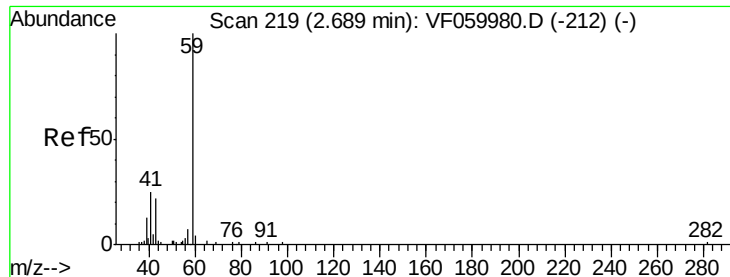
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion:	142	Resp:	112976
Ion Ratio	Lower	Upper	
142	100		
127	67.6	54.1	81.1
141	15.6	12.5	18.7





#11

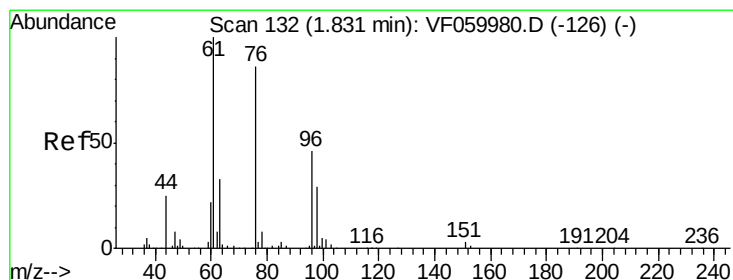
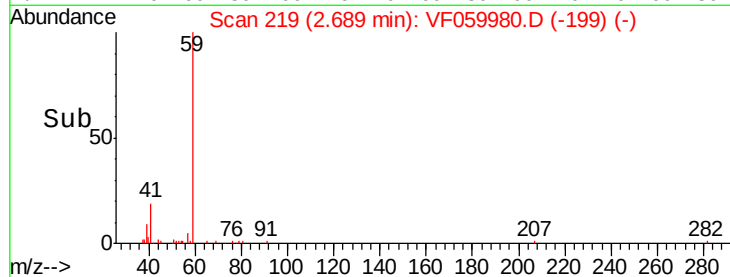
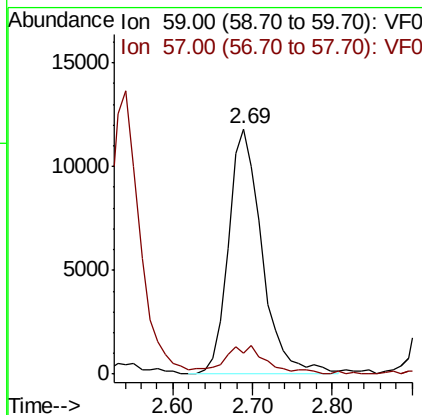
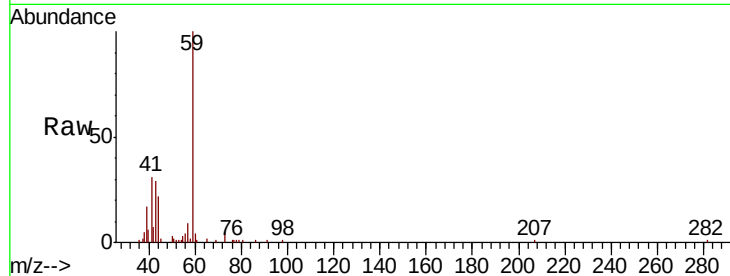
Tert butyl alcohol
 Concen: 217.85 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	59	Resp	34750
Ion Ratio	100	Lower	Upper
57	8.5	6.8	10.2

Manual Integrations
 APPROVED

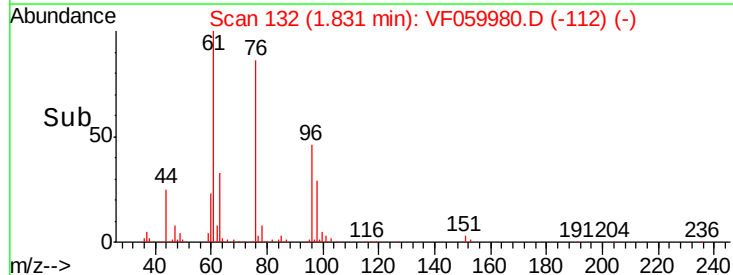
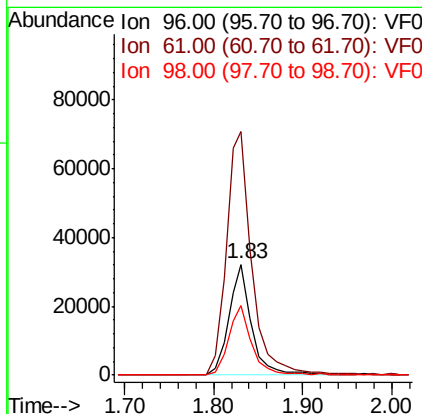
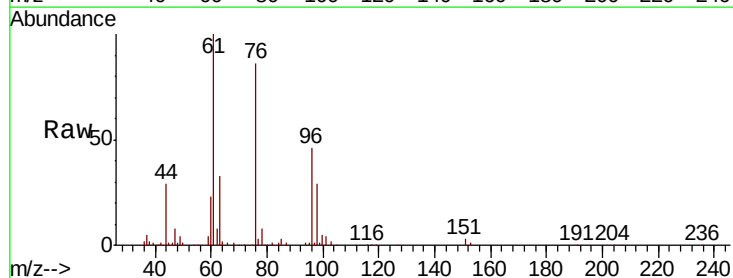
apatel
 8/20/2018 11:48:18 AM

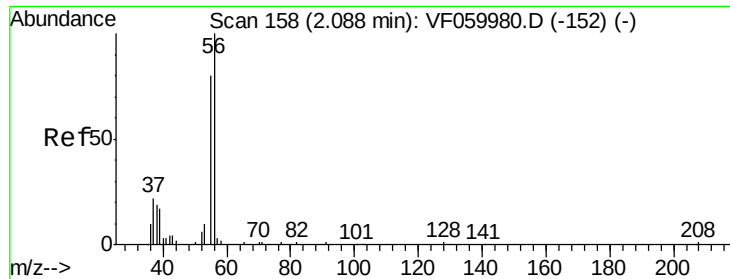


#12

1,1-Dichloroethene
 Concen: 46.16 ug/l
 RT: 1.83 min Scan# 132
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion	96	Resp	57724
Ion Ratio	100	Lower	Upper
61	219.5	175.6	263.4
98	63.2	50.6	75.8





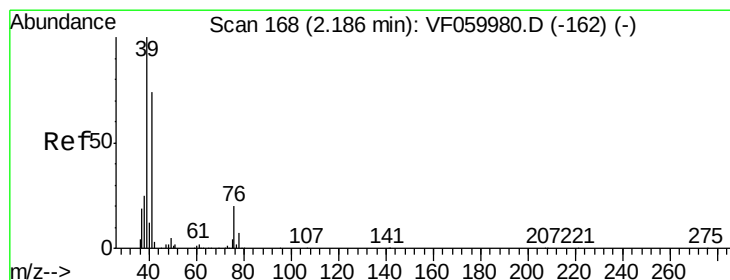
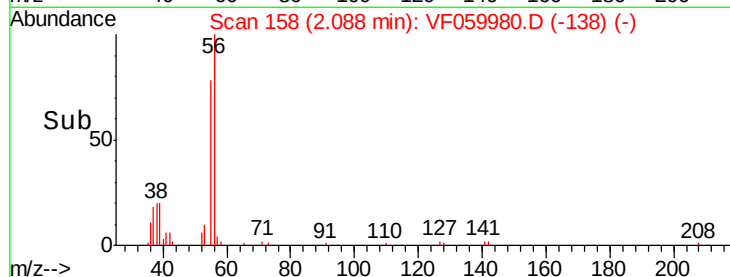
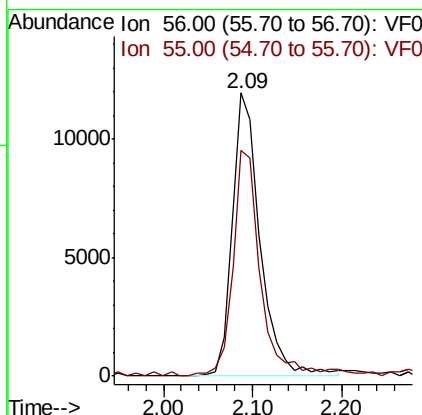
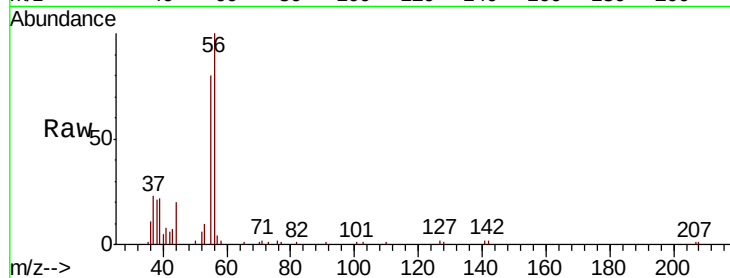
#13
Acrolein
Concen: 310.79 ug/l
RT: 2.09 min Scan# 158
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	79.7	63.8	95.6

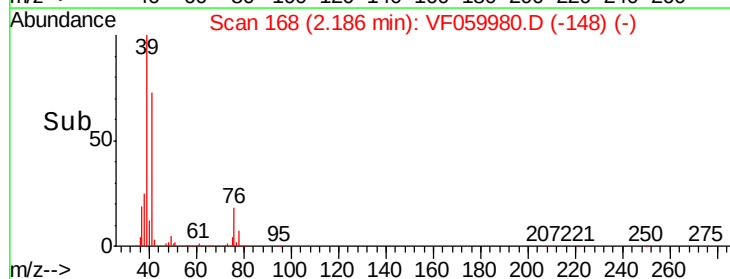
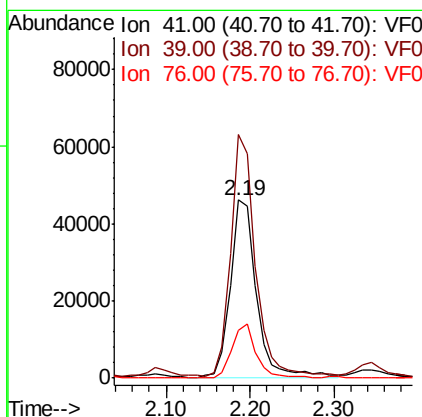
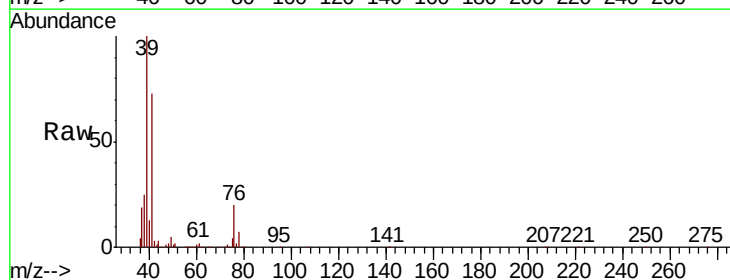
Manual Integrations
APPROVED

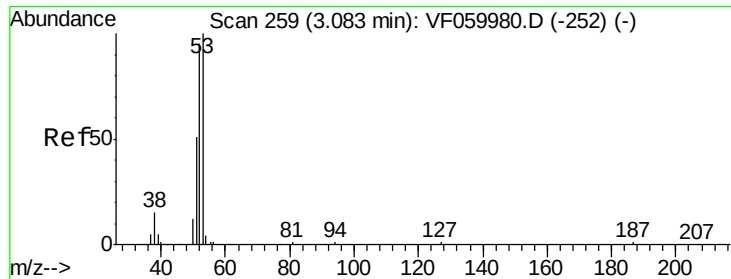
apatel
8/20/2018 11:48:18 AM



#14
Allyl chloride
Concen: 46.93 ug/l
RT: 2.19 min Scan# 168
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
41	100		
39	136.6	109.3	163.9
76	26.6	21.3	31.9





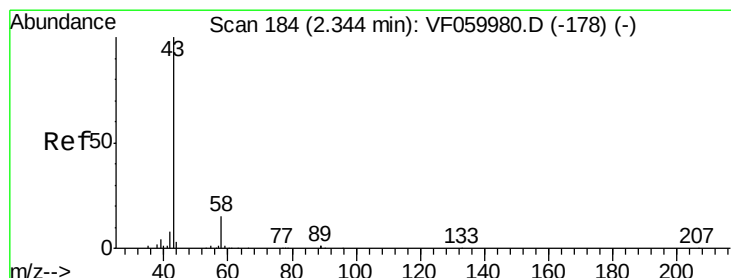
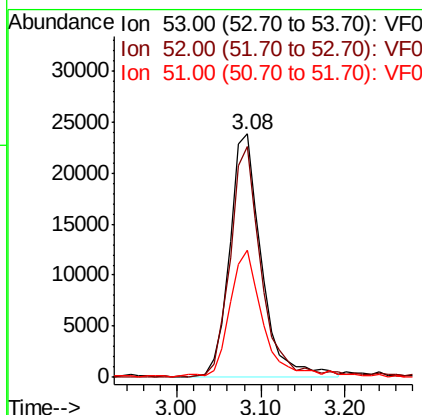
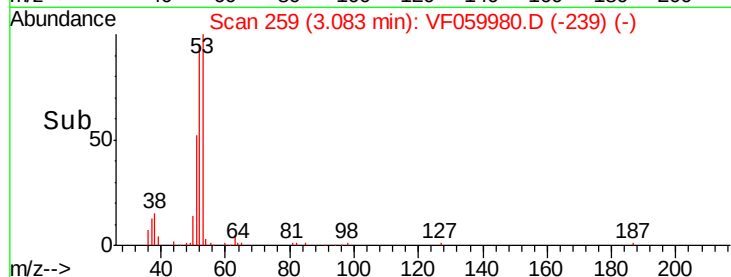
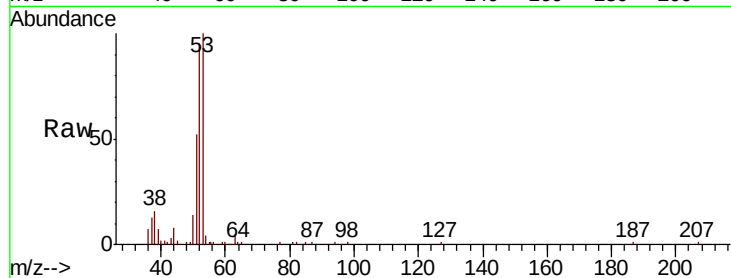
#15
 Acrylonitrile
 Concen: 236.60 ug/l
 RT: 3.08 min Scan# 259
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	53	Resp	62700
Ion Ratio	Lower	Upper	
53	100		
52	95.0	76.0	114.0
51	52.4	41.9	62.9

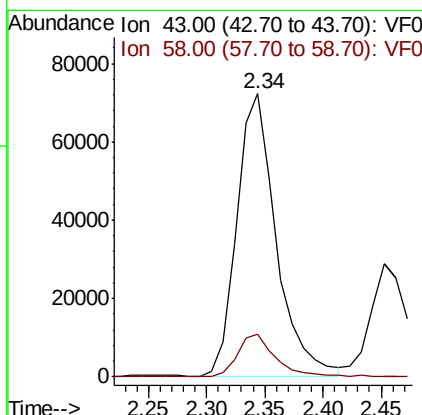
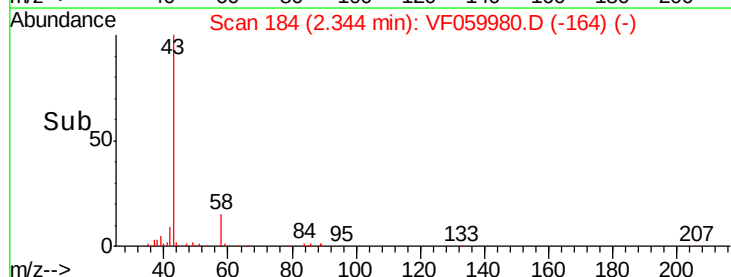
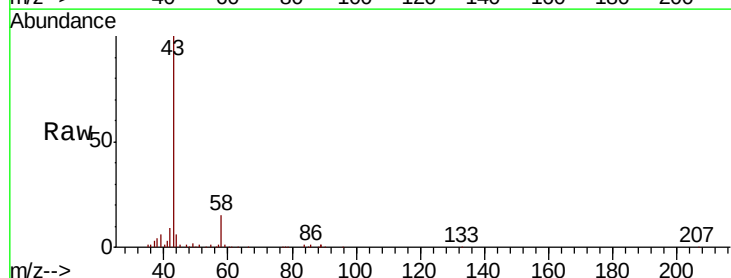
Manual Integrations
 APPROVED

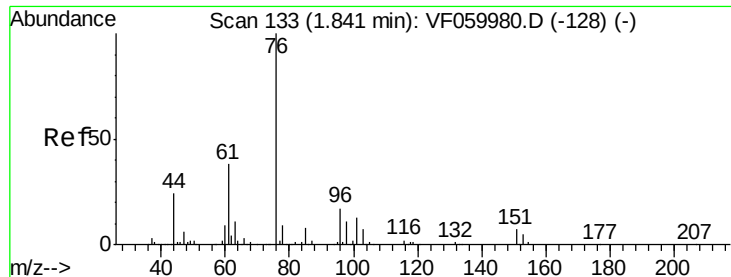
apatel
 8/20/2018 11:48:18 AM



#16
 Acetone
 Concen: 201.74 ug/l
 RT: 2.34 min Scan# 184
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion	43	Resp	168025
Ion Ratio	Lower	Upper	
43	100		
58	14.9	11.9	17.9





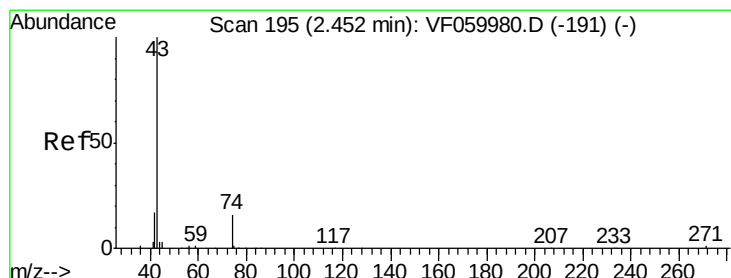
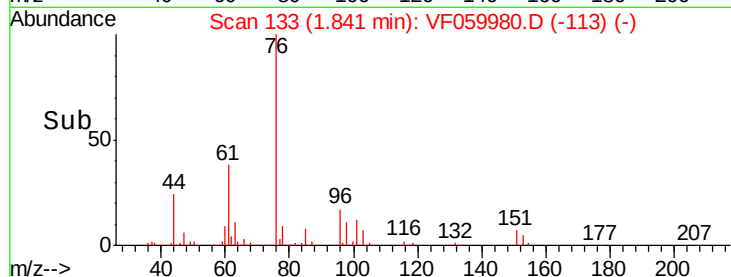
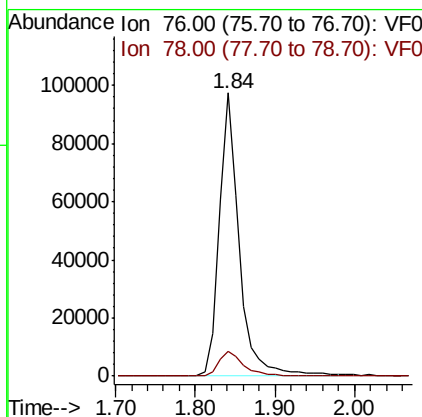
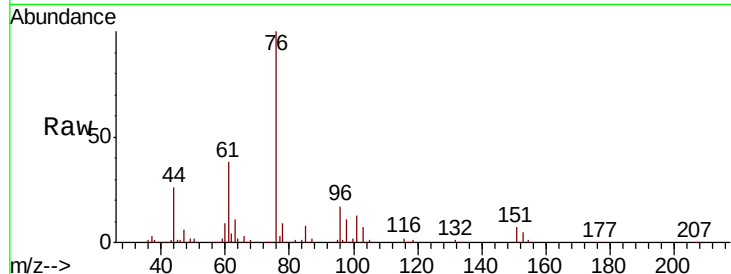
#17
Carbon Disulfide
Concen: 43.33 ug/l
RT: 1.84 min Scan# 133
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

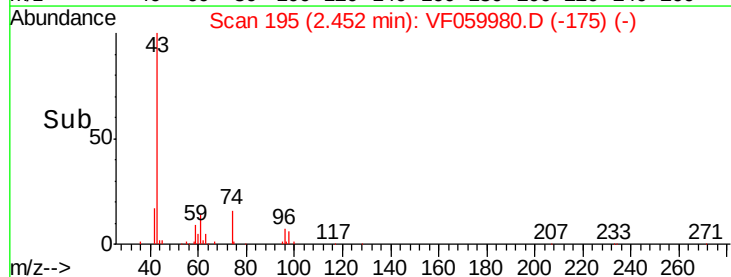
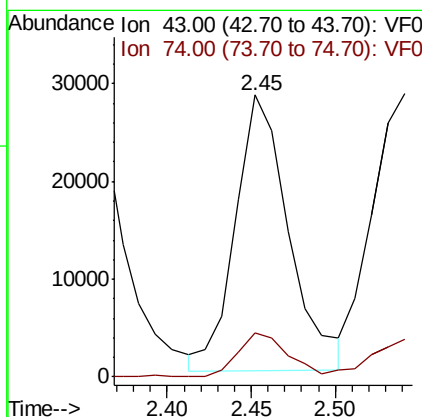
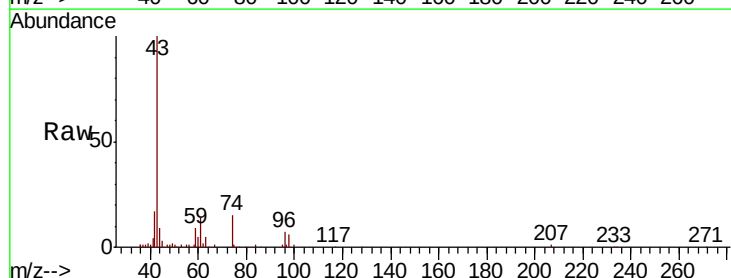
Manual Integrations
APPROVED

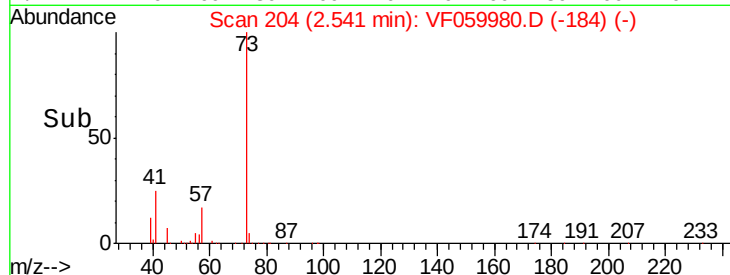
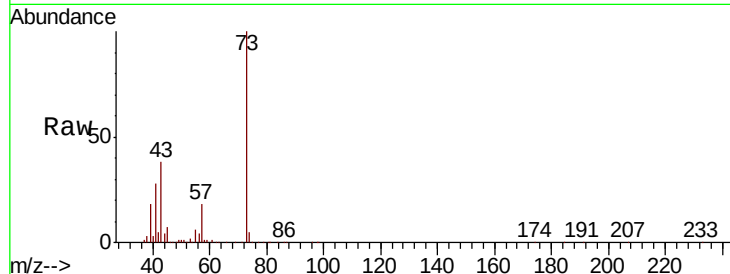
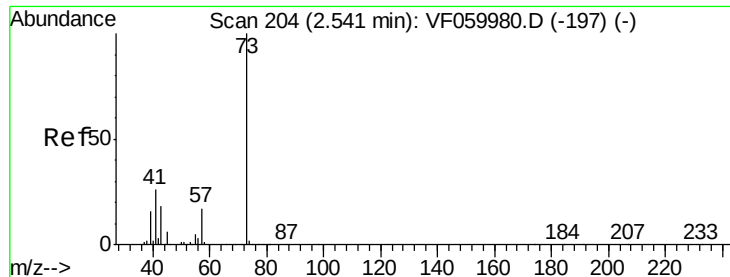
apatel
8/20/2018 11:48:18 AM



#18
Methyl Acetate
Concen: 37.67 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
43	100		
74	15.4	12.3	18.5





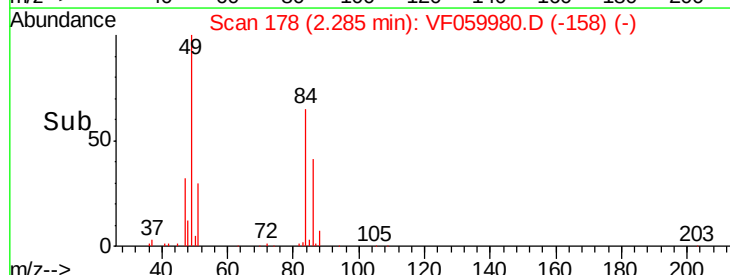
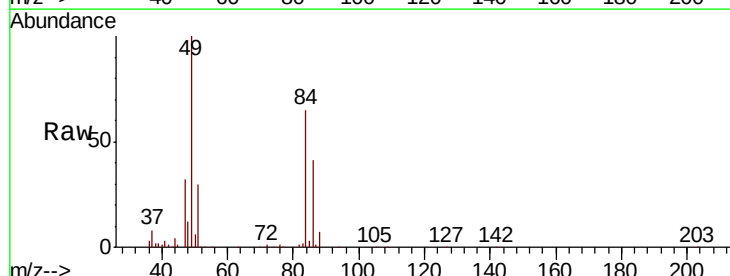
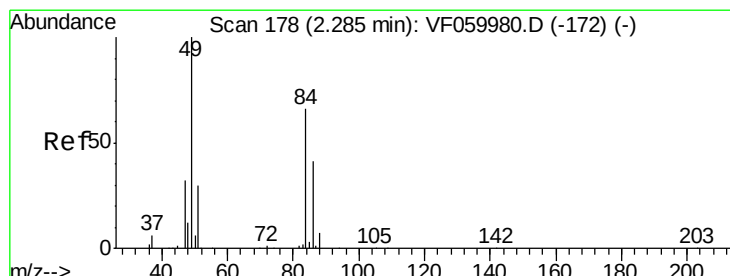
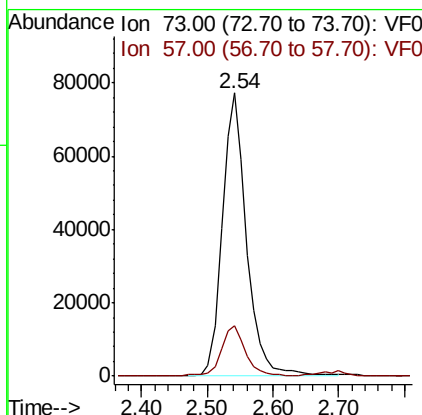
#19
Methyl tert-butyl Ether
Concen: 47.01 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.7	14.2	21.2

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

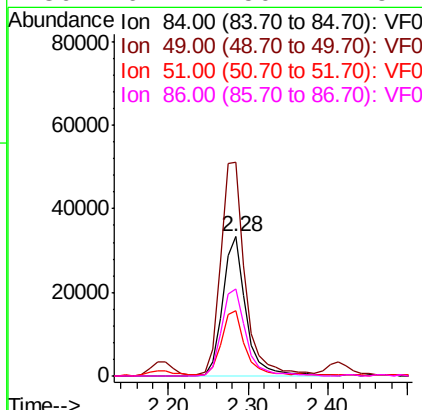
Manual Integrations
APPROVED

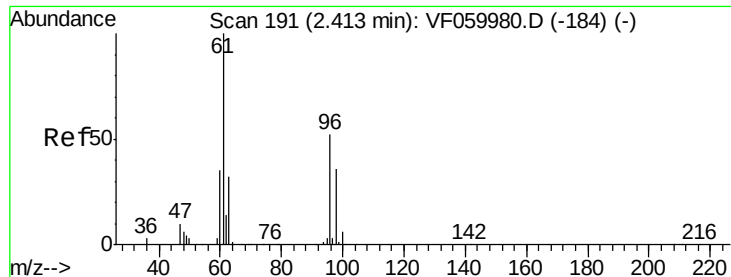
apatel
8/20/2018 11:48:18 AM



#20
Methylene Chloride
Concen: 39.36 ug/l
RT: 2.28 min Scan# 178
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.1	122.5	183.7
51	46.4	37.1	55.7
86	62.7	50.2	75.2





#21

trans-1,2-Dichloroethene

Concen: 44.97 ug/l

RT: 2.41 min Scan# 191

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

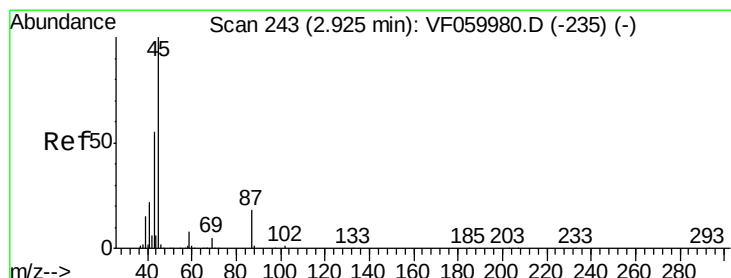
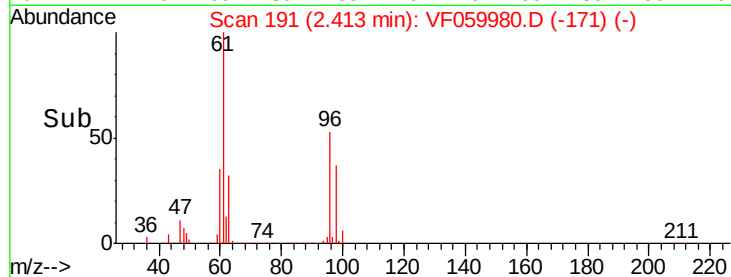
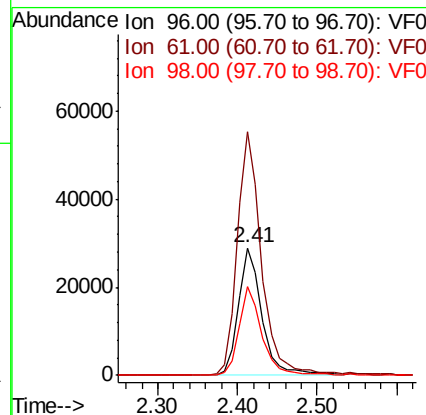
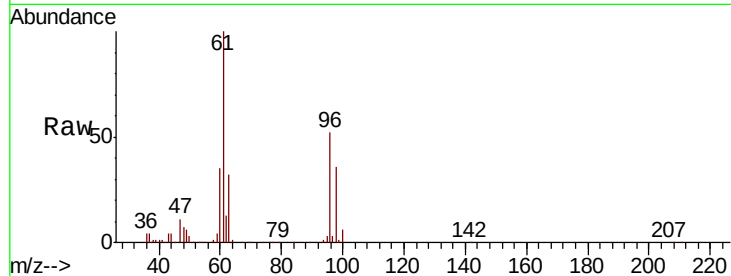
ClientSampleId :

VSTDICCC050

Tot Ion:	96	Resp:	59953
Ion	Ratio	Lower	Upper
96	100		
61	191.2	153.0	229.4
98	69.4	55.5	83.3

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#22

Diisopropyl ether

Concen: 48.50 ug/l

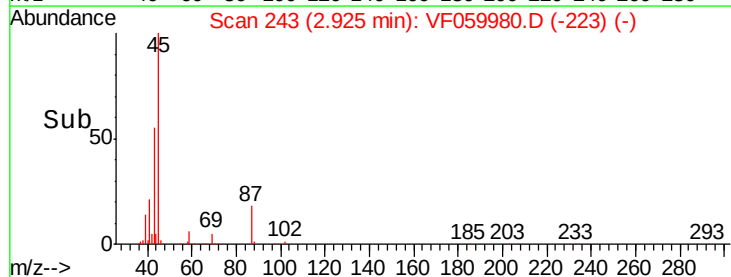
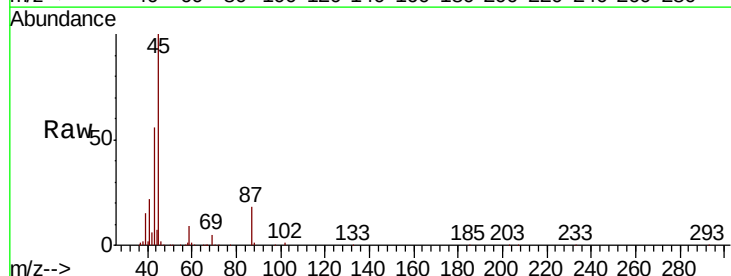
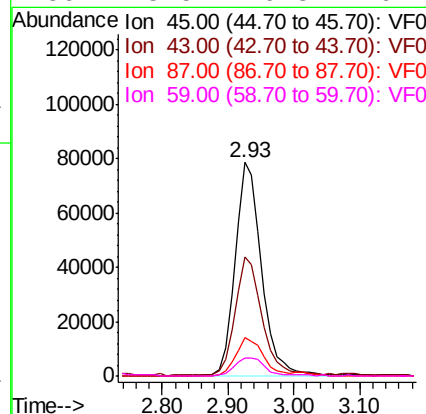
RT: 2.93 min Scan# 243

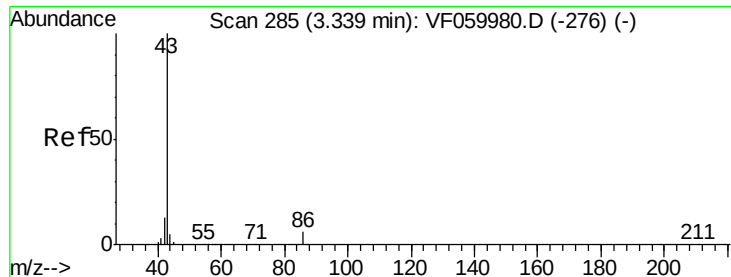
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion:	45	Resp:	222276
Ion	Ratio	Lower	Upper
45	100		
43	56.0	44.8	67.2
87	18.2	14.6	21.8
59	8.5	6.8	10.2





#23

Vinyl Acetate

Concen: 259.86 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 487847

Ion Ratio Lower Upper

43 100

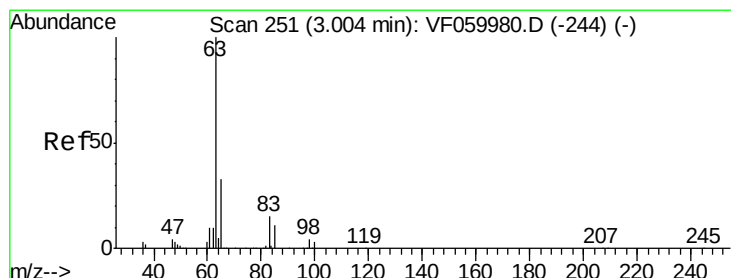
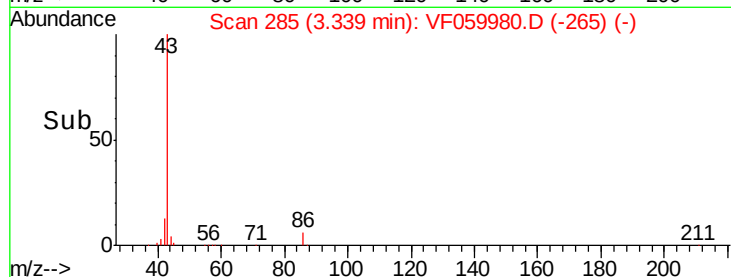
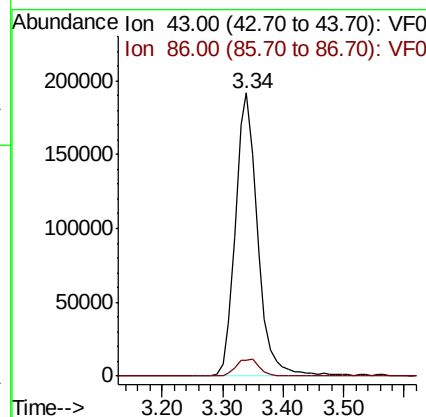
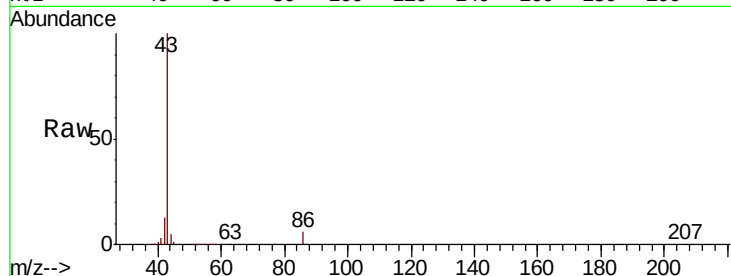
86 5.5 4.4 6.6

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#24

1,1-Dichloroethane

Concen: 50.01 ug/l

RT: 3.00 min Scan# 251

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

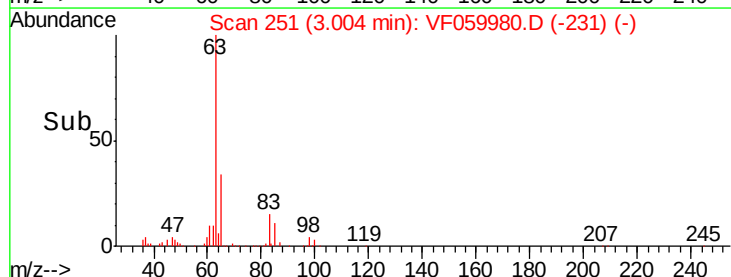
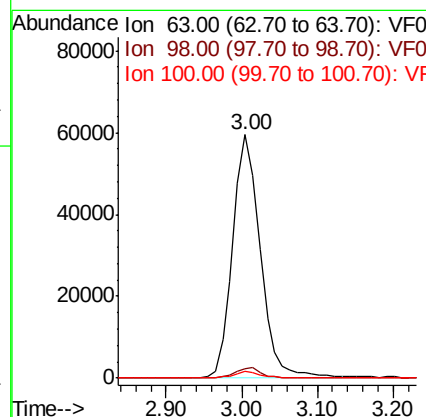
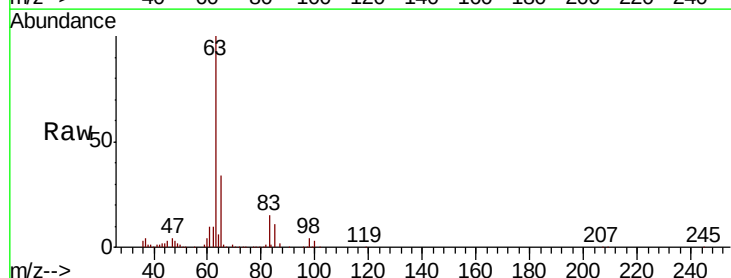
Tgt Ion: 63 Resp: 150837

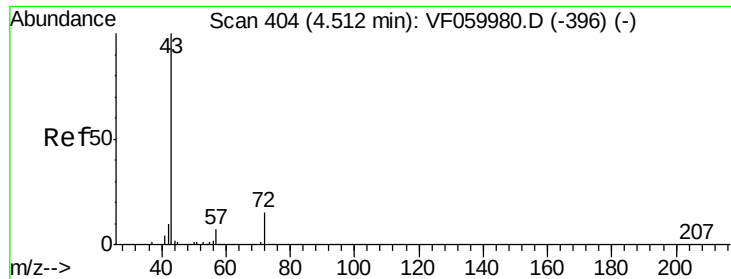
Ion Ratio Lower Upper

63 100

98 3.9 2.0 5.8

100 2.8 1.4 4.2





#25

2-Butanone

Concen: 214.80 ug/l

RT: 4.51 min Scan# 404

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 139954

Ion Ratio Lower Upper

43 100

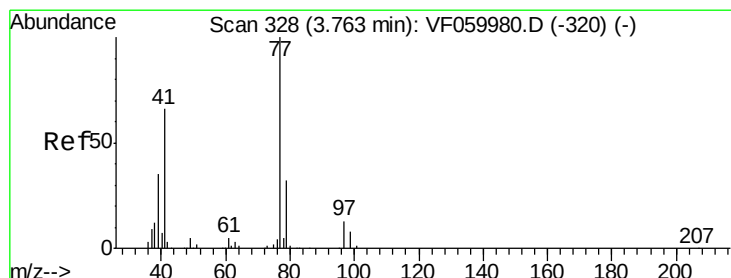
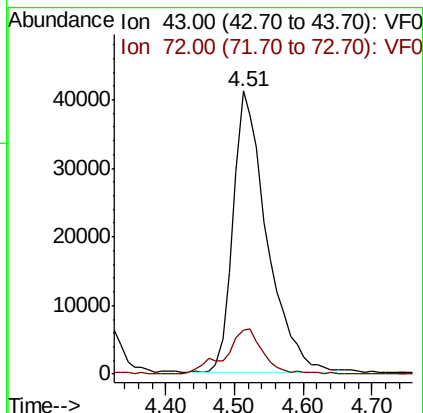
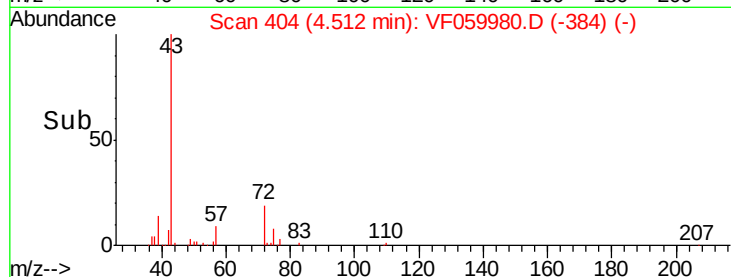
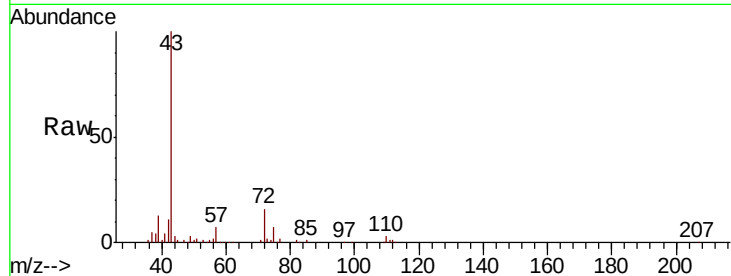
72 15.6 12.5 18.7

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#26

2,2-Dichloropropane

Concen: 51.14 ug/l

RT: 3.76 min Scan# 328

Delta R.T. 0.00 min

Lab File: VF059980.D

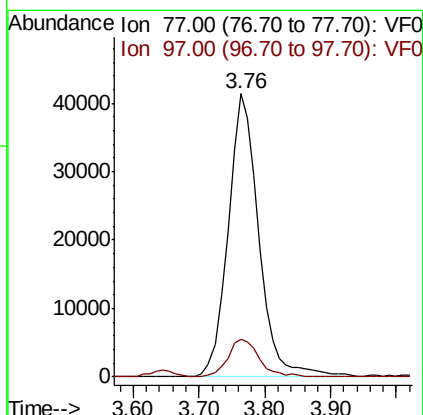
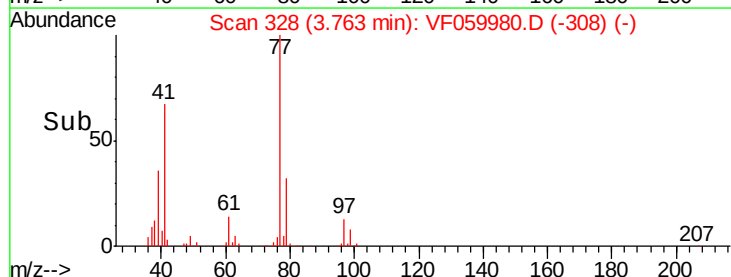
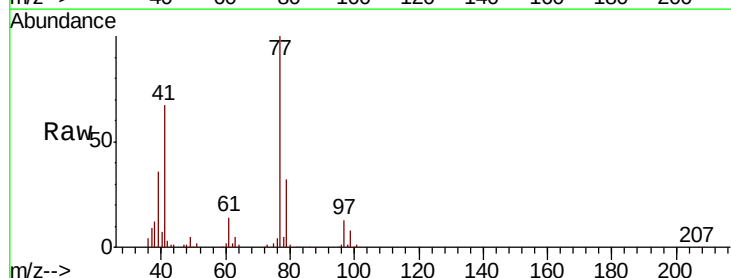
Acq: 17 Aug 2018 18:32

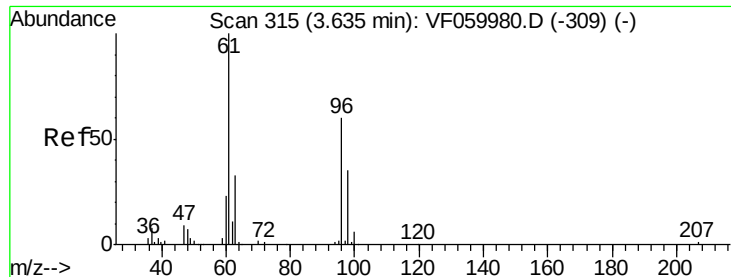
Tgt Ion: 77 Resp: 134614

Ion Ratio Lower Upper

77 100

97 13.3 6.7 20.0





#27

cis-1,2-Dichloroethene

Concen: 49.76 ug/l

RT: 3.64 min Scan# 315

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

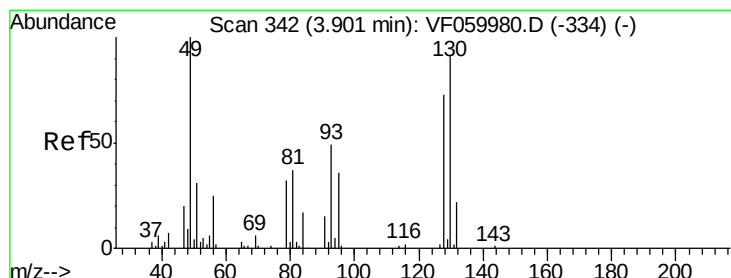
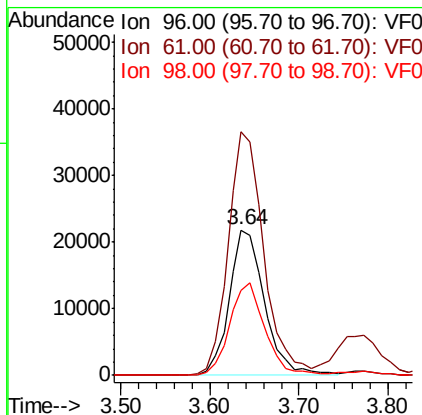
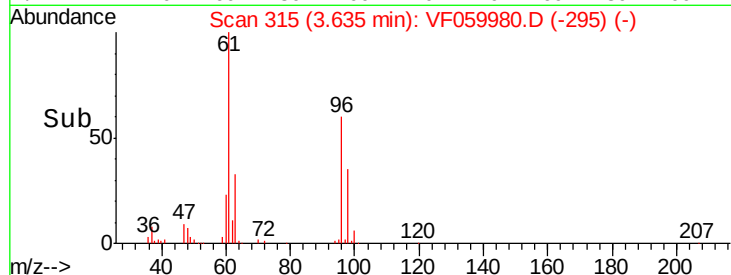
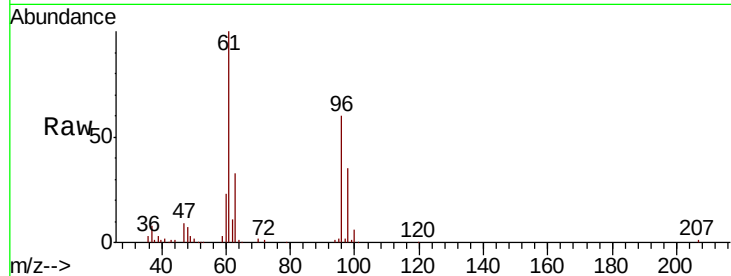
ClientSampleId :

VSTDICCC050

Tot Ion:	96	Resp:	60507
Ion	Ratio	Lower	Upper
96	100		
61	167.5	0.0	335.0
98	58.6	0.0	117.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#28

Bromochloromethane

Concen: 43.81 ug/l

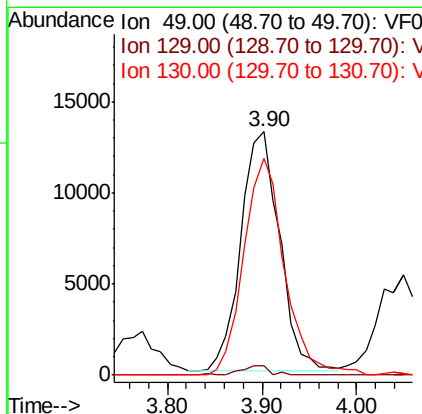
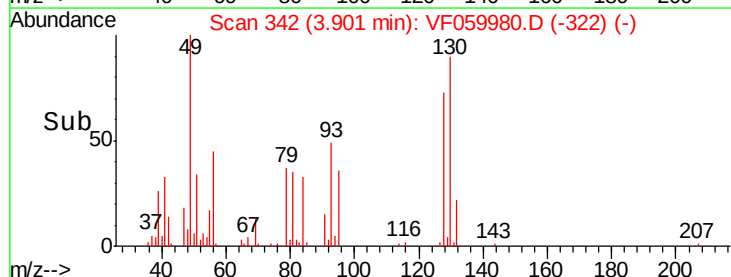
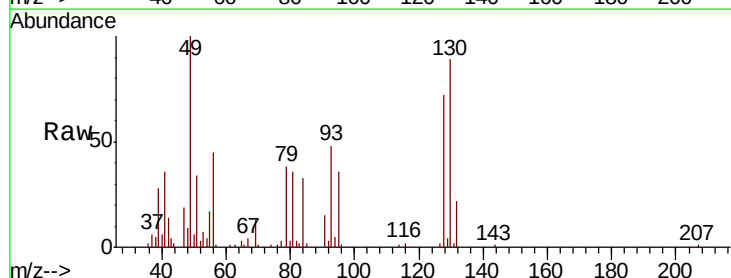
RT: 3.90 min Scan# 342

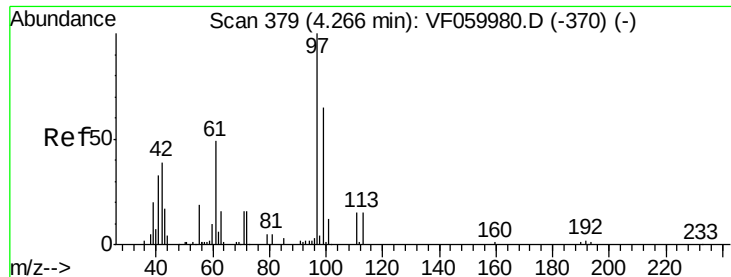
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion:	49	Resp:	37693
Ion	Ratio	Lower	Upper
49	100		
129	3.8	0.0	7.6
130	89.1	71.3	106.9





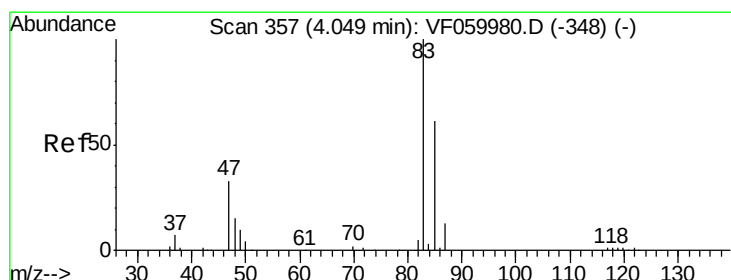
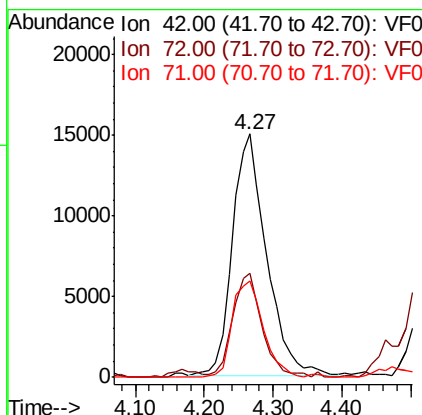
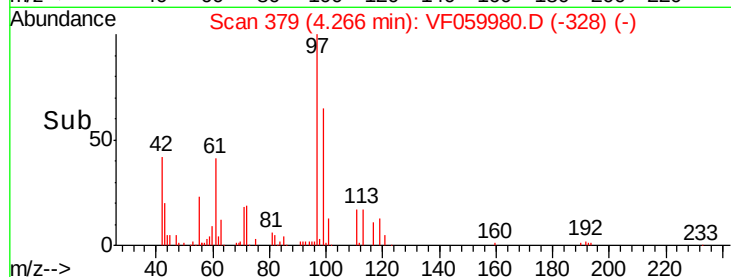
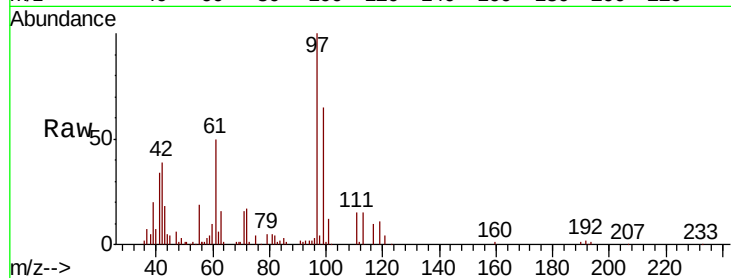
#29
Tetrahydrofuran
Concen: 221.03 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.2	29.8	44.6
71	36.2	29.0	43.4

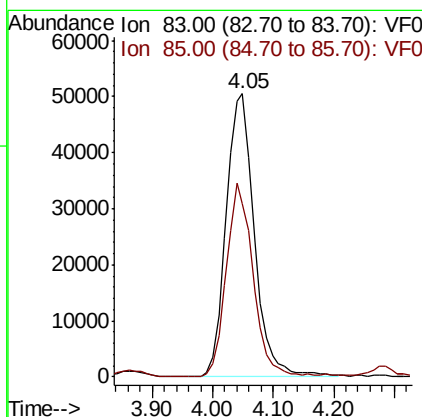
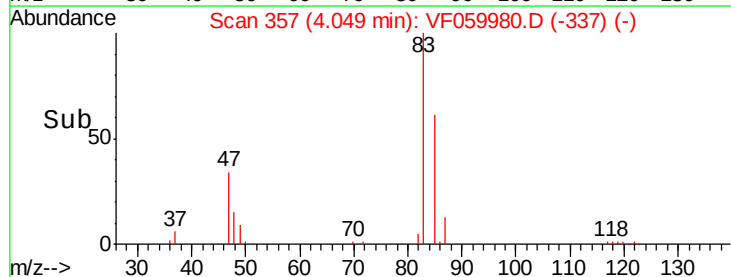
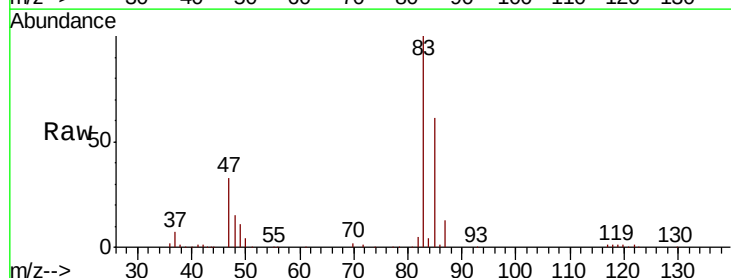
Manual Integrations
APPROVED

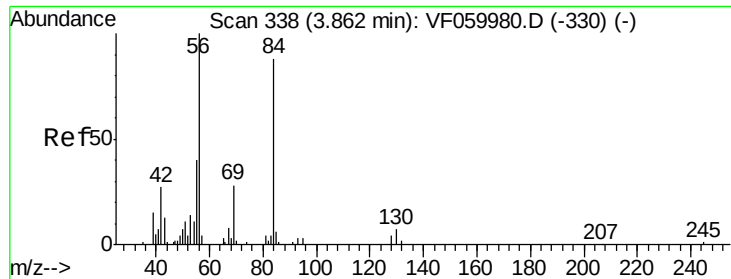
apatel
8/20/2018 11:48:18 AM



#30
Chloroform
Concen: 47.69 ug/l
RT: 4.05 min Scan# 357
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.0	48.8	73.2





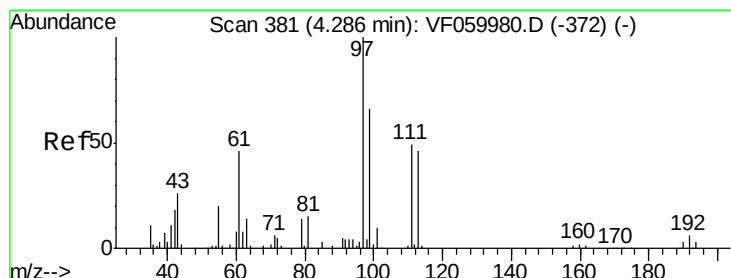
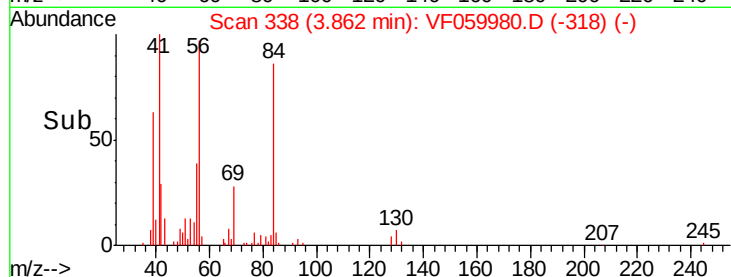
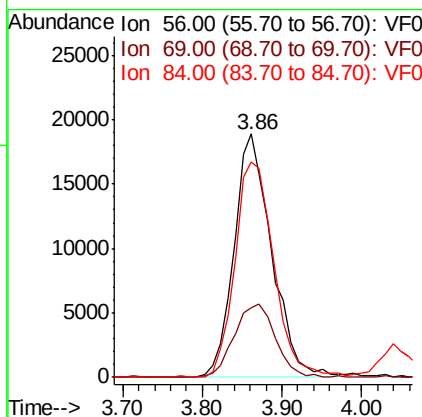
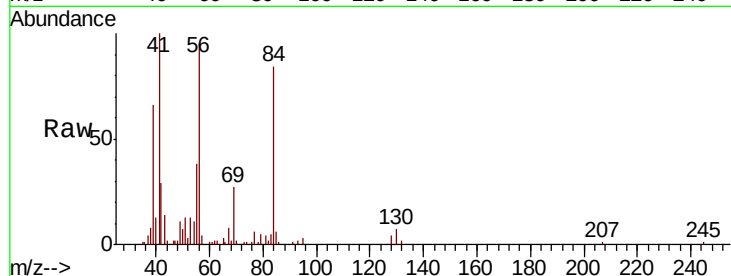
#31
Cyclohexane
Concen: 45.79 ug/l
RT: 3.86 min Scan# 338
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.5	22.8	34.2
84	88.4	70.7	106.1

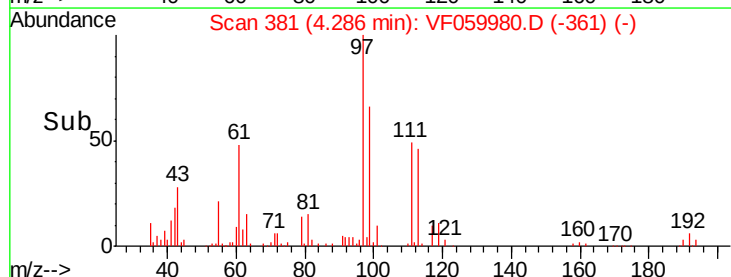
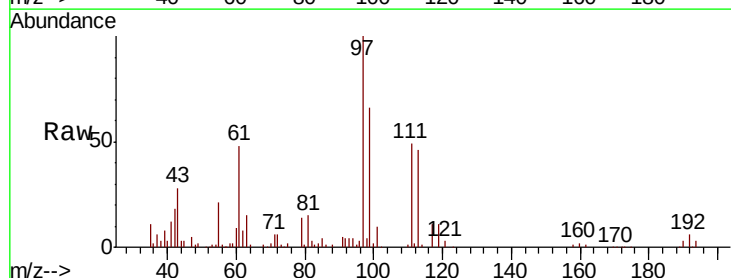
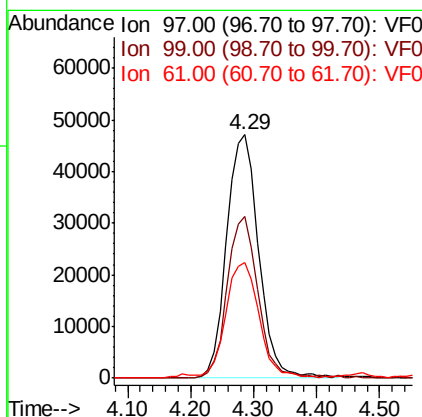
Manual Integrations
APPROVED

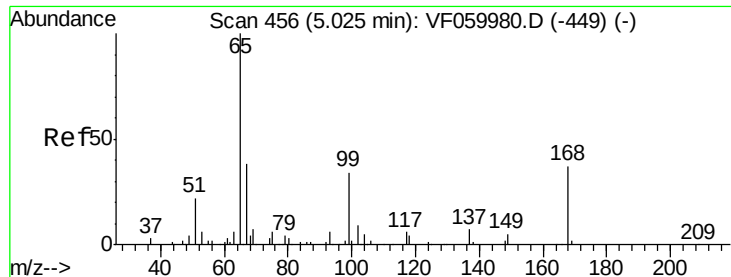
apatel
8/20/2018 11:48:18 AM



#32
1,1,1-Trichloroethane
Concen: 49.46 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.4	53.1	79.7
61	47.7	38.2	57.2





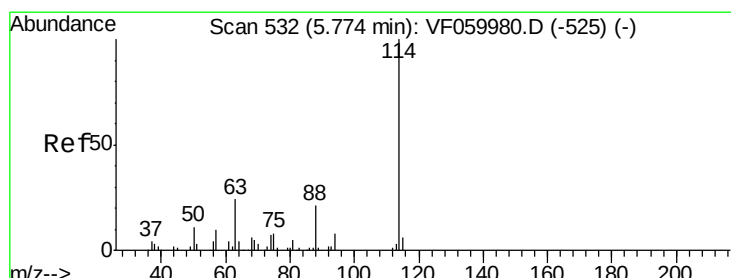
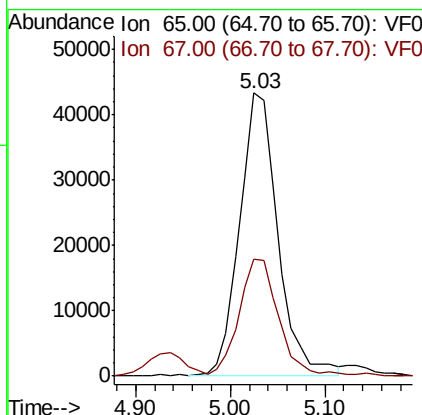
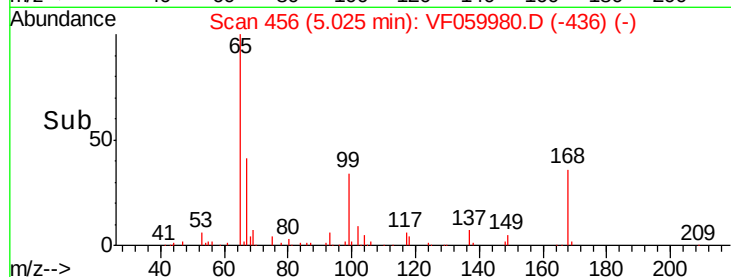
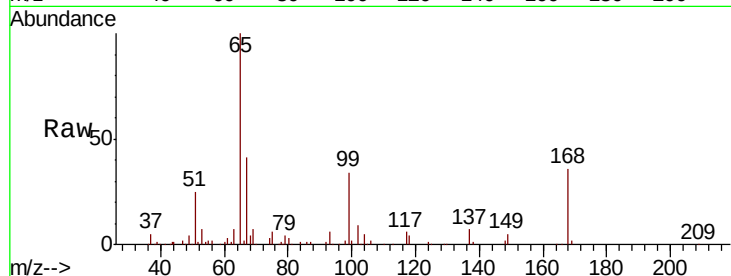
#33
 1,2-Dichloroethane-d4
 Concen: 46.71 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	41.3	0.0	82.6

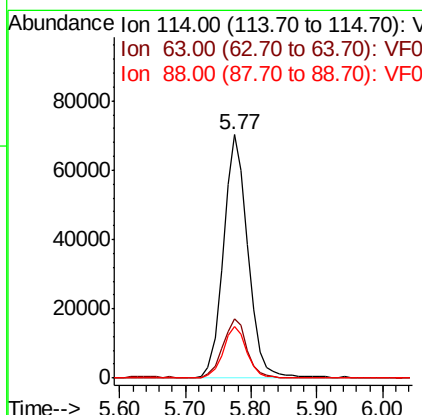
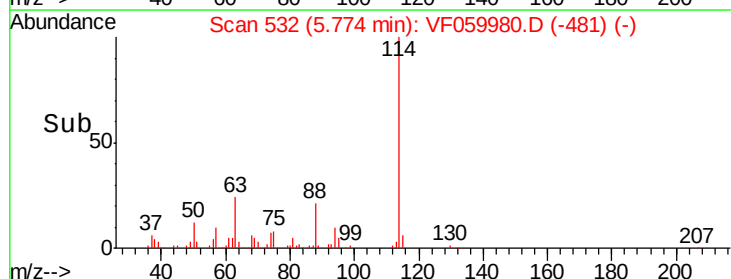
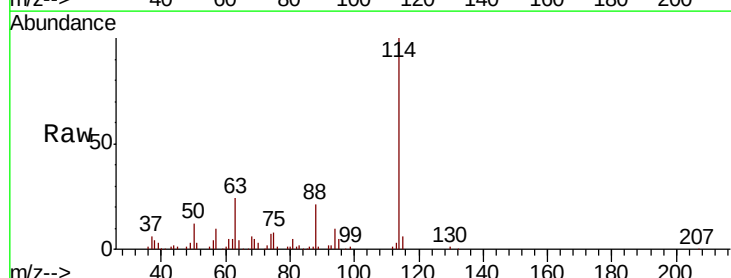
Manual Integrations
 APPROVED

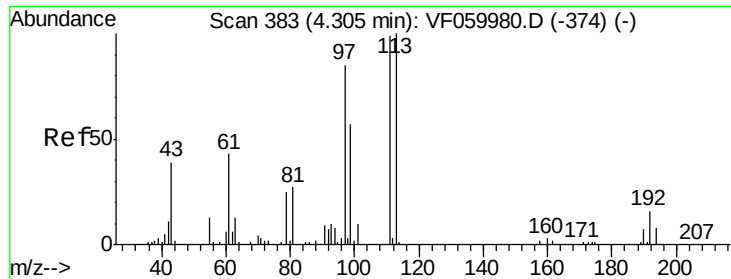
apatel
 8/20/2018 11:48:18 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	48.6
88	21.4	0.0	42.8





#35

Dibromofluoromethane

Concen: 49.81 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

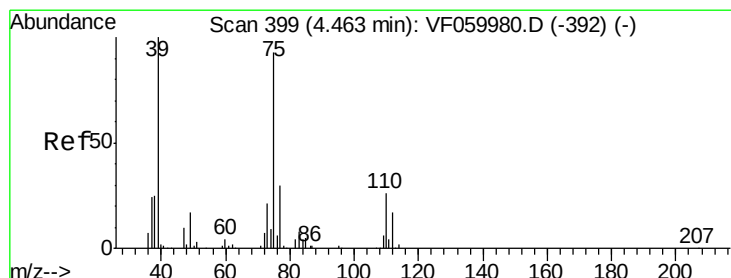
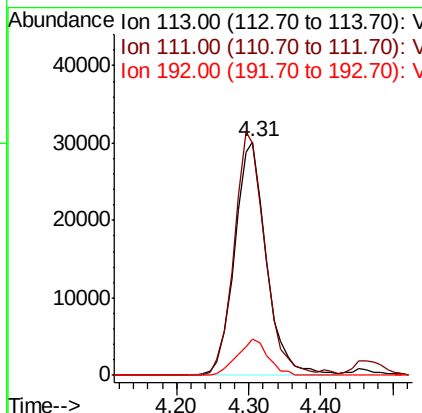
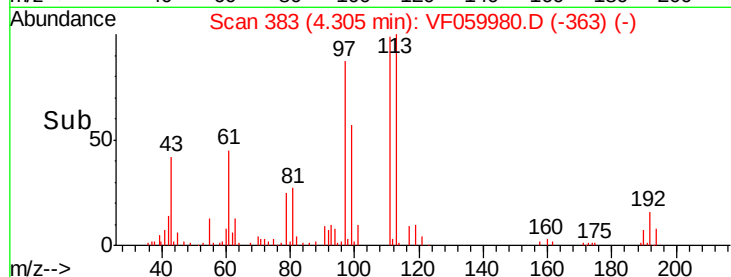
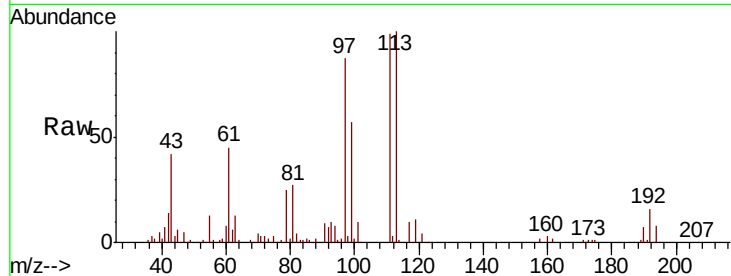
ClientSampleId :

VSTDICCC050

Tot Ion:	113	Resp:	92536
Ion	Ratio	Lower	Upper
113	100		
111	99.4	79.5	119.3
192	15.5	12.4	18.6

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#36

1,1-Dichloropropene

Concen: 45.43 ug/l

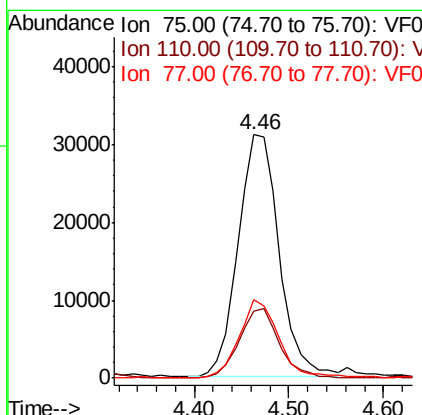
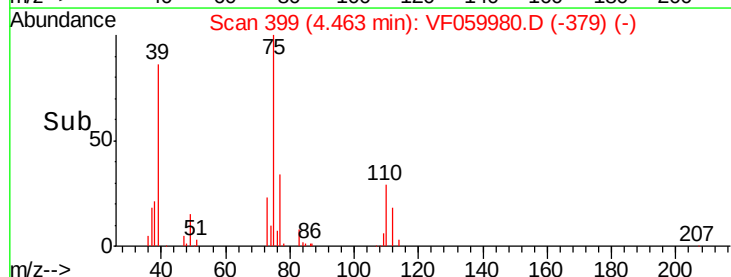
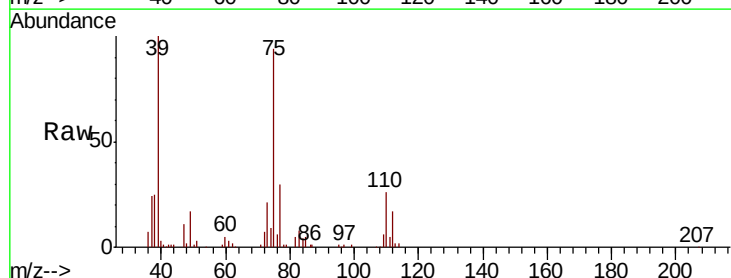
RT: 4.46 min Scan# 399

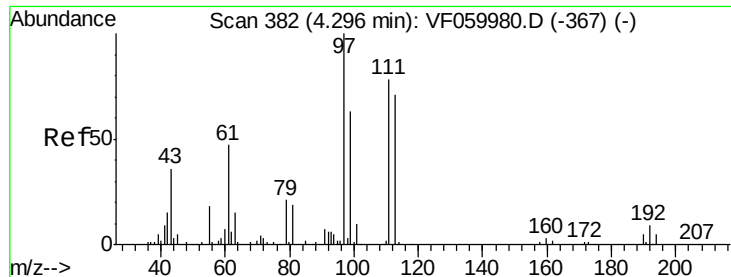
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion:	75	Resp:	93585
Ion	Ratio	Lower	Upper
75	100		
110	27.6	13.8	41.4
77	32.3	25.8	38.8





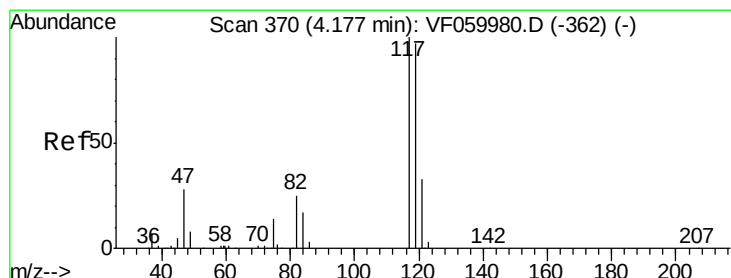
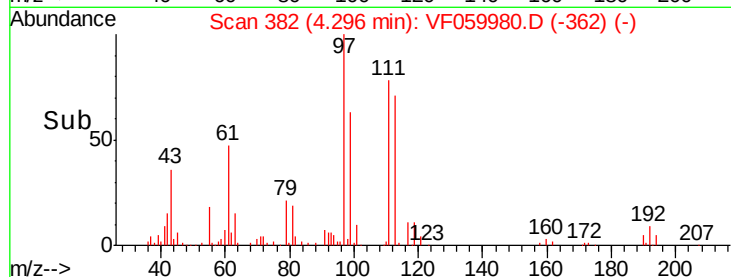
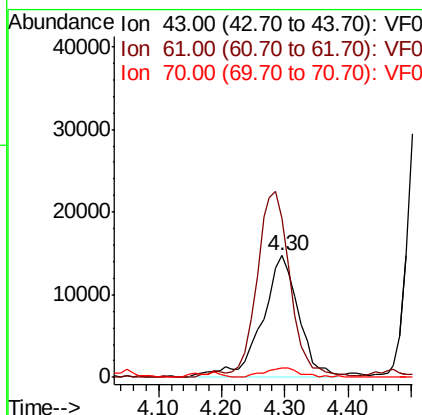
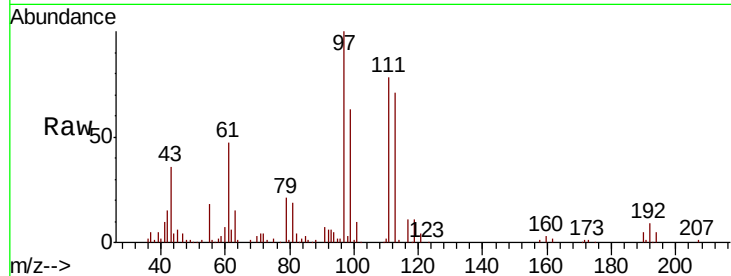
#37
Ethyl Acetate
Concen: 48.59 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	130.6	104.5	156.7
70	7.4	5.9	8.9

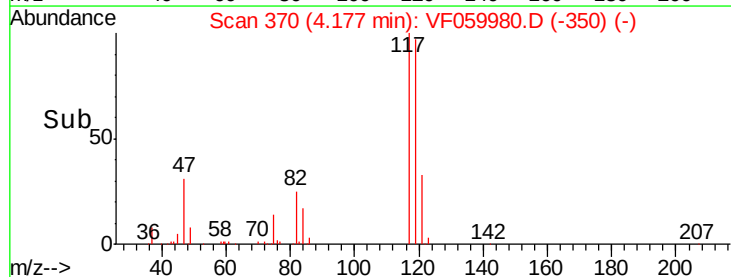
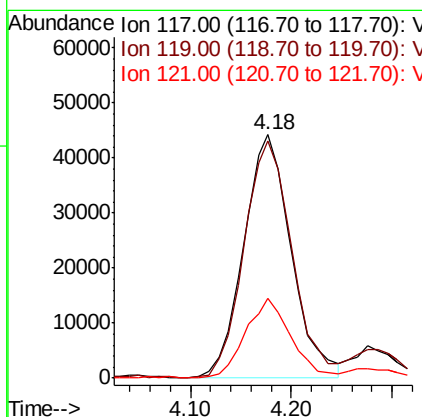
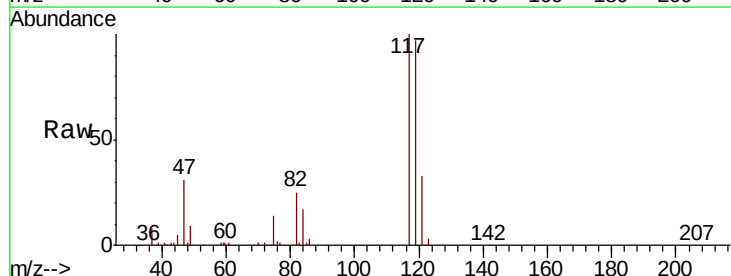
Manual Integrations
APPROVED

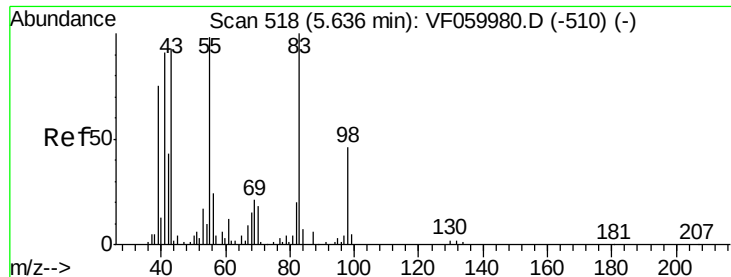
apatel
8/20/2018 11:48:18 AM



#38
Carbon Tetrachloride
Concen: 49.03 ug/l
RT: 4.18 min Scan# 370
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.2	77.8	116.6
121	32.5	26.0	39.0





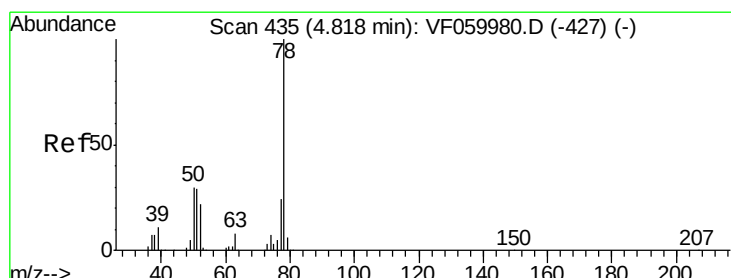
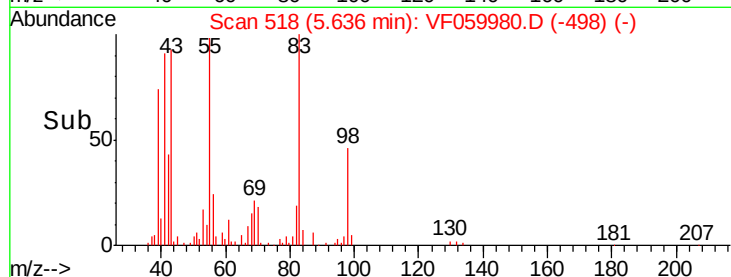
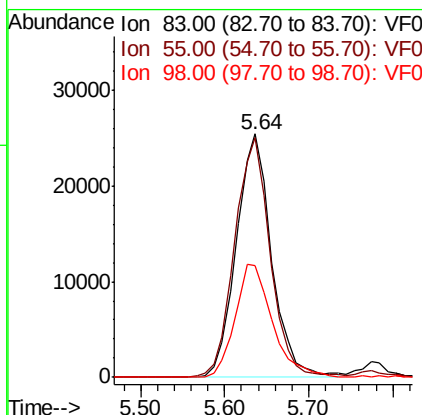
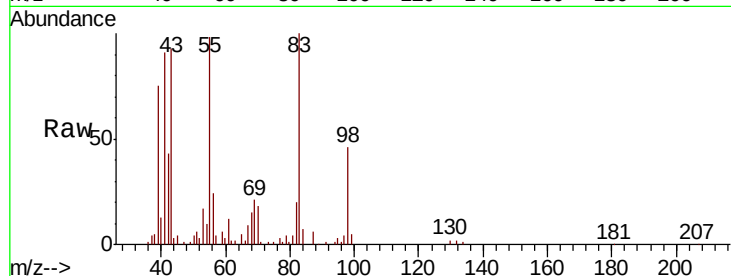
#39
Methylvlcyclohexane
Concen: 47.71 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	98.5	78.8	118.2
98	46.0	36.8	55.2

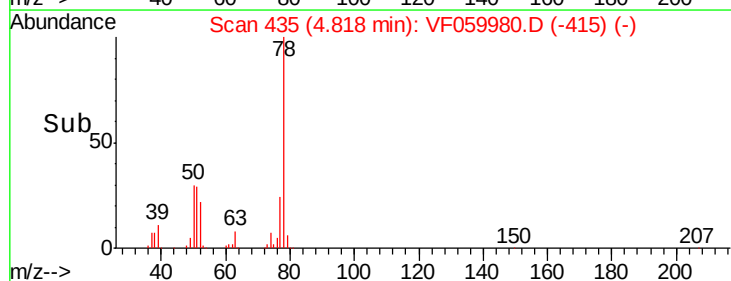
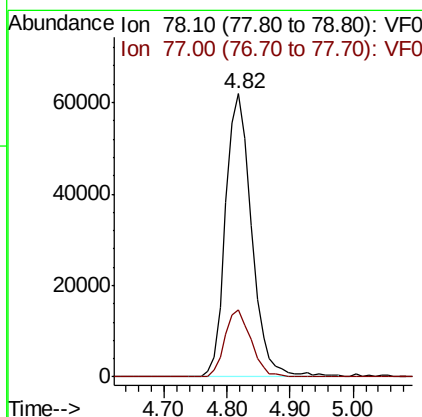
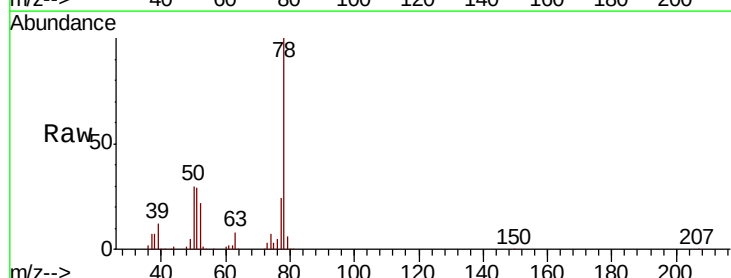
Manual Integrations
APPROVED

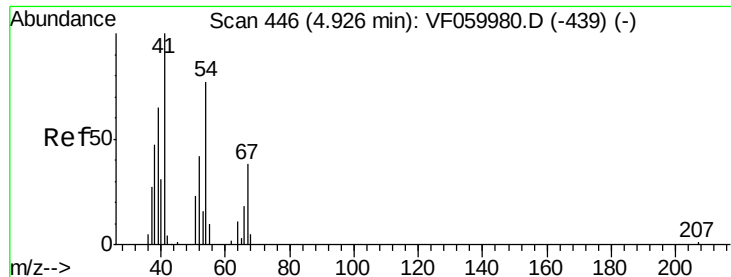
apatel
8/20/2018 11:48:18 AM



#40
Benzene
Concen: 50.92 ug/l
RT: 4.82 min Scan# 435
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7





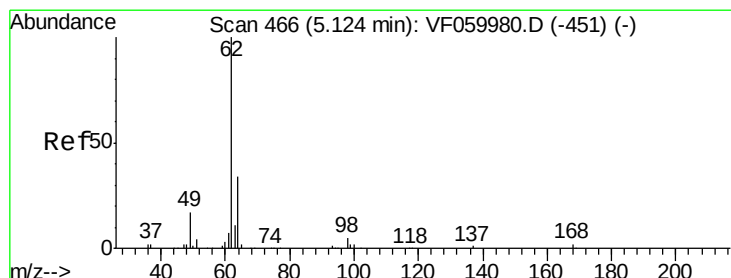
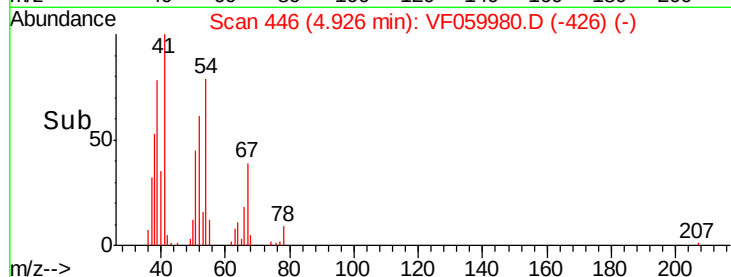
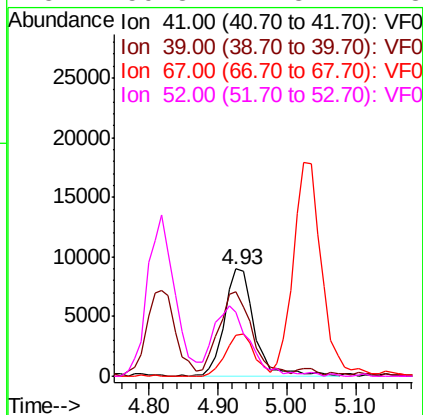
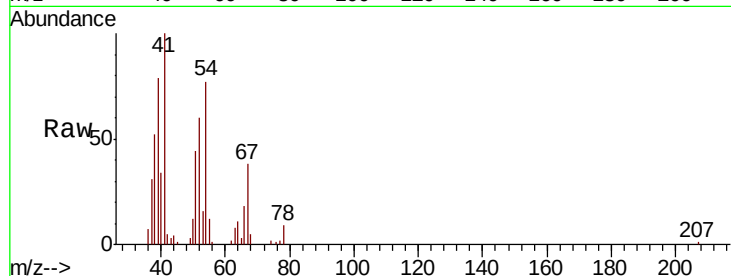
#41
Methacrylonitrile
Concen: 46.93 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	78.6	62.9	94.3
67	38.0	30.4	45.6
52	59.8	47.8	71.8

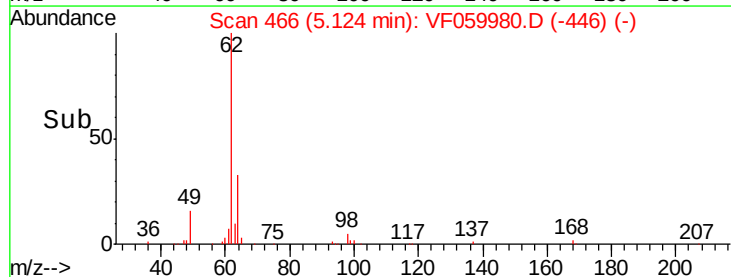
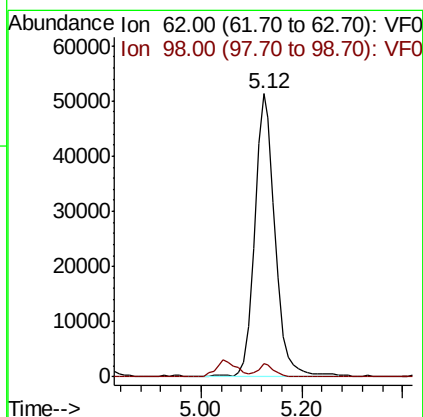
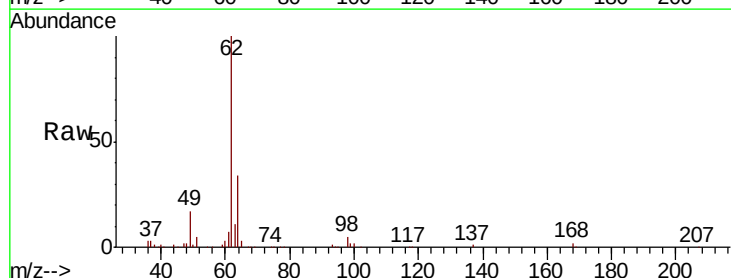
Manual Integrations
APPROVED

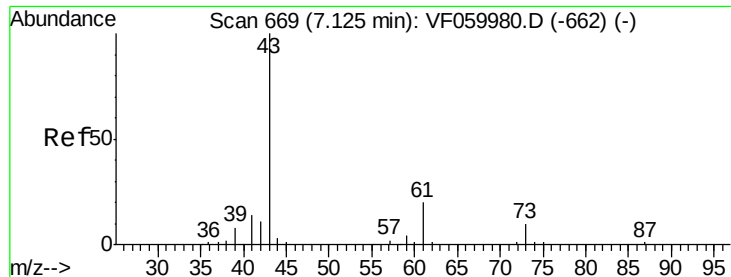
apatel
8/20/2018 11:48:18 AM



#42
1,2-Dichloroethane
Concen: 48.09 ug/l
RT: 5.12 min Scan# 466
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.5	0.0	9.0





#43

Isopropyl Acetate

Concen: 48.24 ug/l

RT: 7.12 min Scan# 669

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

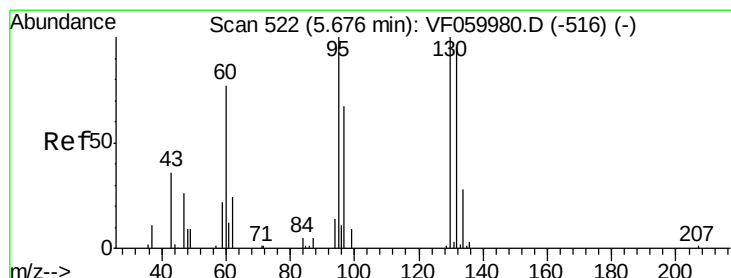
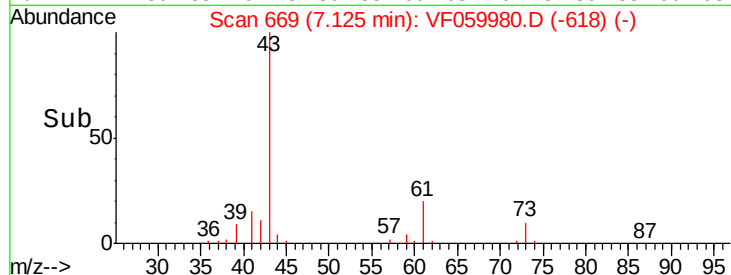
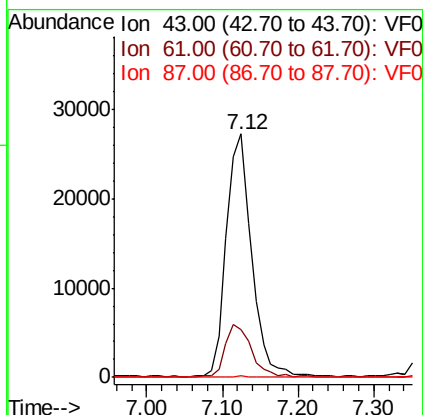
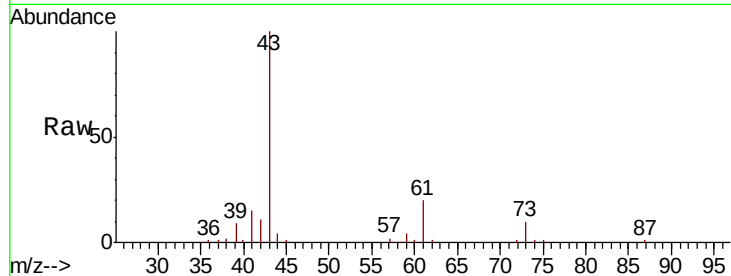
ClientSampleId :

VSTDICCC050

Tot Ion:	43	Resp:	63867
Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.8	23.8
87	0.7	0.6	0.8

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#44

Trichloroethene

Concen: 49.40 ug/l

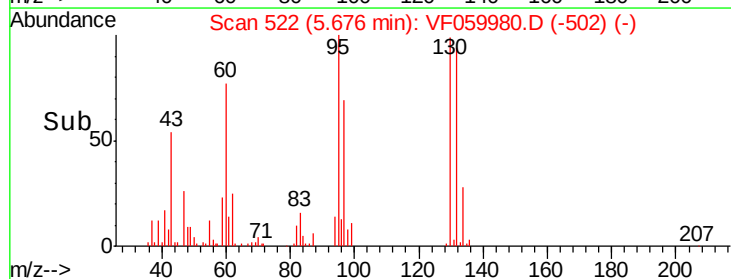
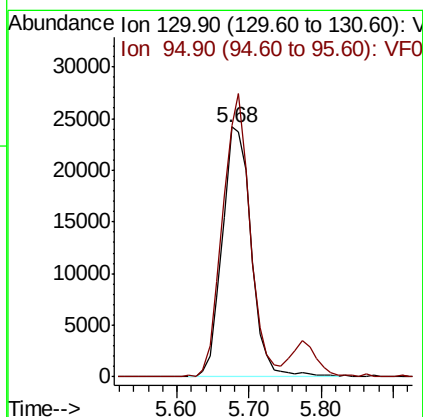
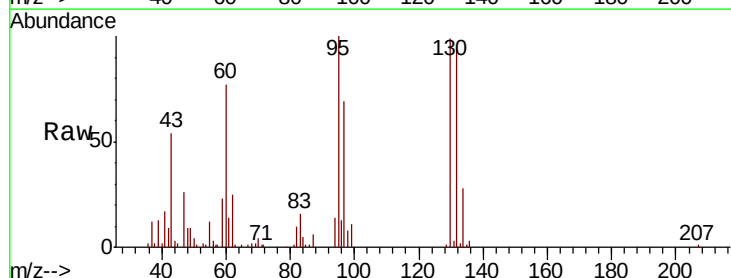
RT: 5.68 min Scan# 522

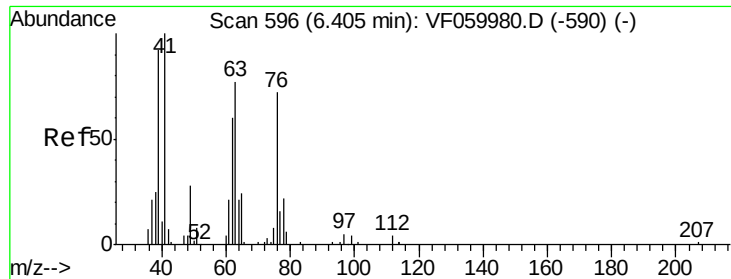
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion:	130	Resp:	67608
Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	201.8





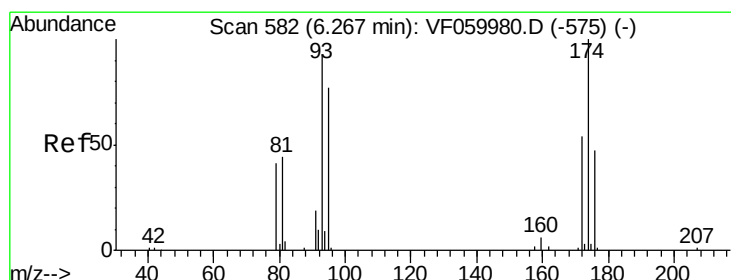
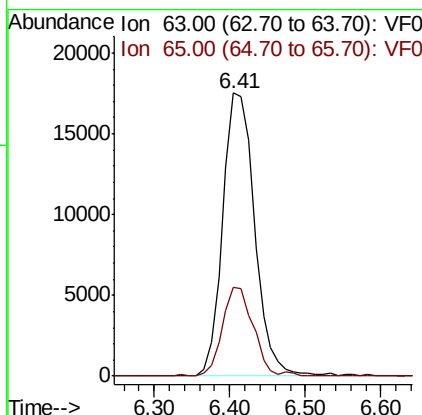
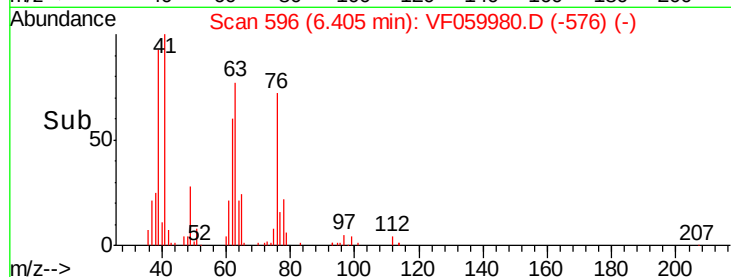
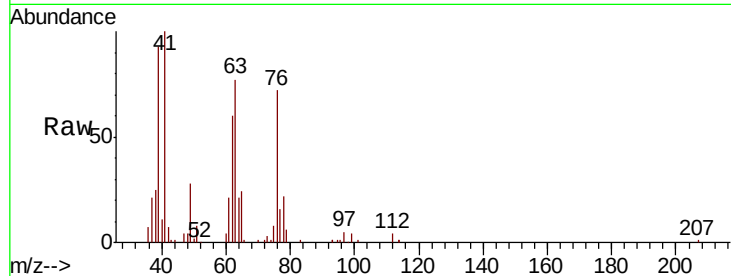
#45
 1,2-Dichloropropane
 Concen: 51.28 ug/l
 RT: 6.41 min Scan# 596
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion: 63 Resp: 51264
 Ion Ratio Lower Upper
 63 100
 65 31.3 25.0 37.6

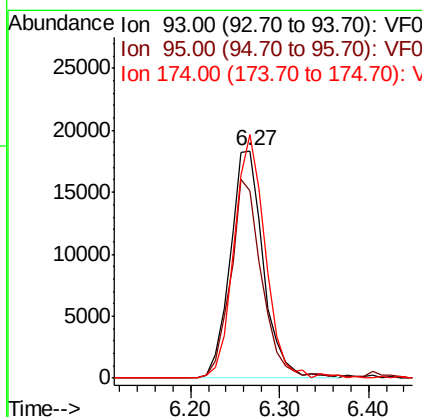
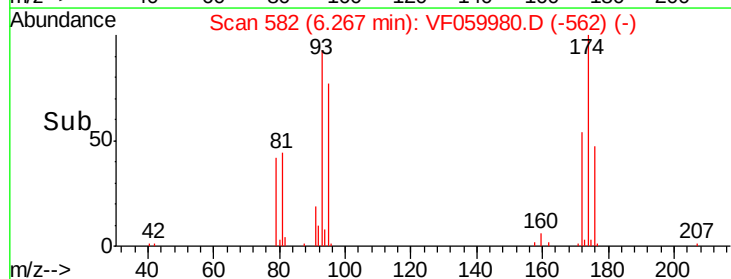
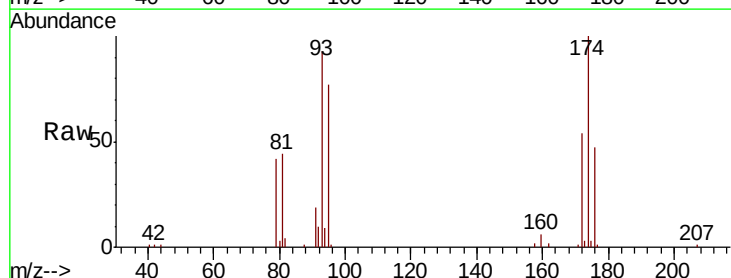
Manual Integrations
 APPROVED

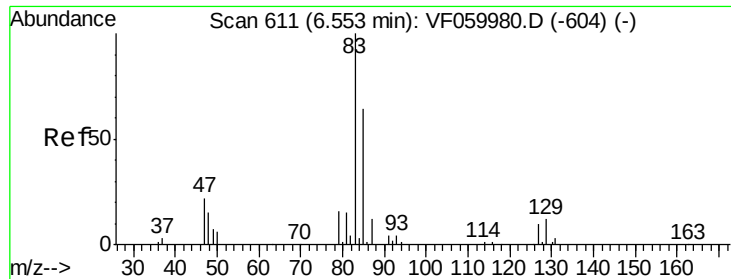
apatel
 8/20/2018 11:48:18 AM



#46
 Dibromomethane
 Concen: 47.00 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion: 93 Resp: 47657
 Ion Ratio Lower Upper
 93 100
 95 83.7 67.0 100.4
 174 107.1 85.7 128.5





#47

Bromodichloromethane

Concen: 50.33 ug/l

RT: 6.55 min Scan# 611

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

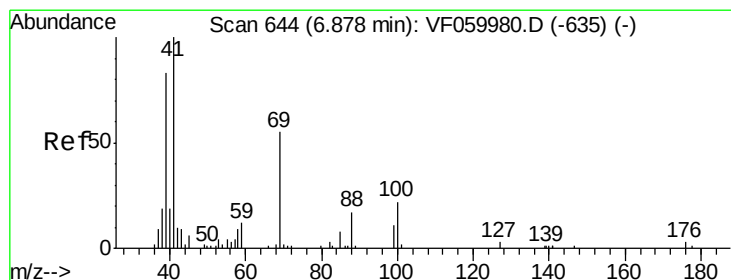
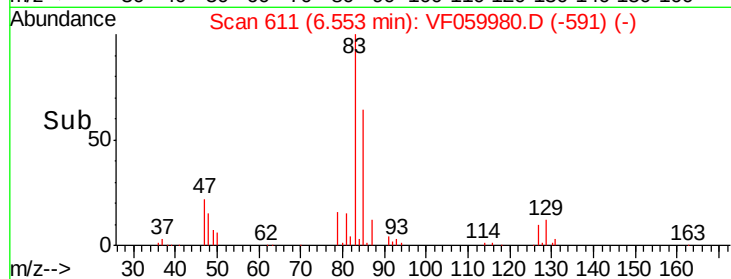
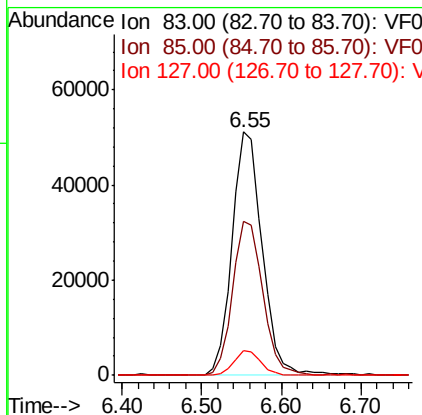
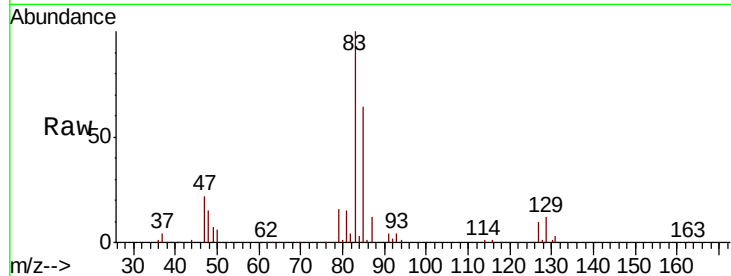
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	134769
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.4	77.0
127	10.2	8.2	12.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#48

Methyl methacrylate

Concen: 49.23 ug/l

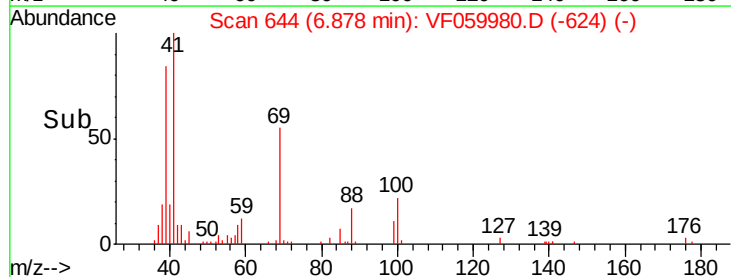
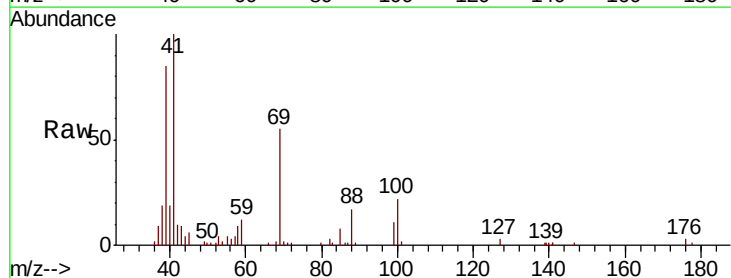
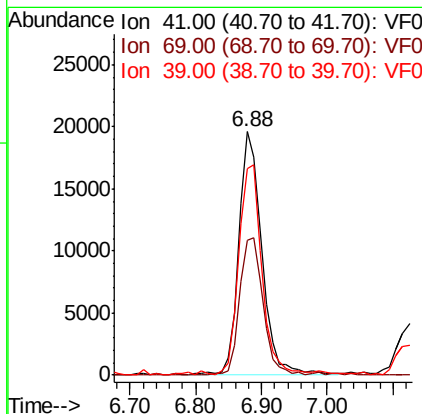
RT: 6.88 min Scan# 644

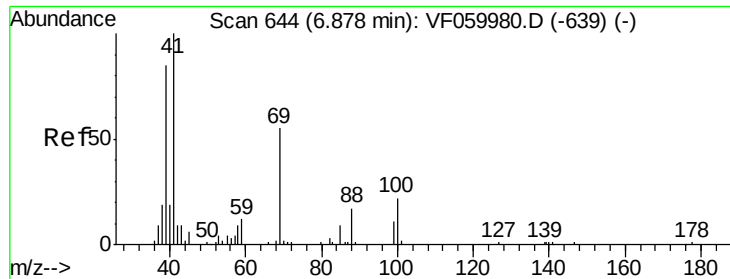
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion:	41	Resp:	48590
Ion	Ratio	Lower	Upper
41	100		
69	55.5	44.4	66.6
39	84.7	67.8	101.6





#49

1,4-Dioxane

Concen: 1019.25 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

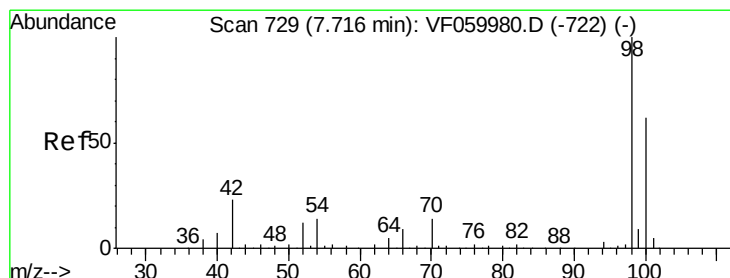
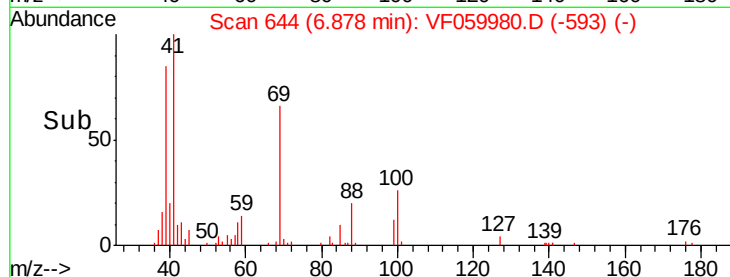
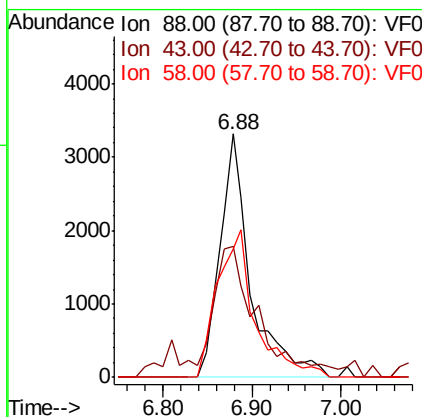
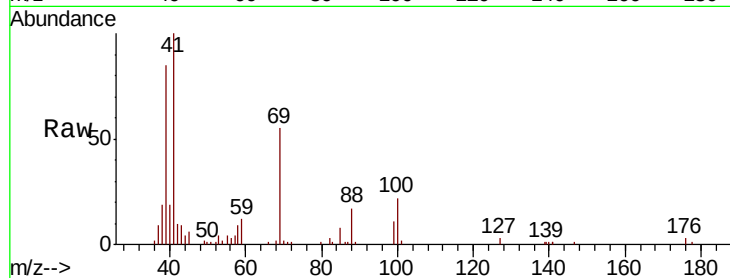
ClientSampleId :

VSTDICCC050

Tot Ion:	88	Resp:	8053
Ion	Ratio	Lower	Upper
88	100		
43	54.0	43.2	64.8
58	52.5	42.0	63.0

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#50

Toluene-d8

Concen: 50.09 ug/l

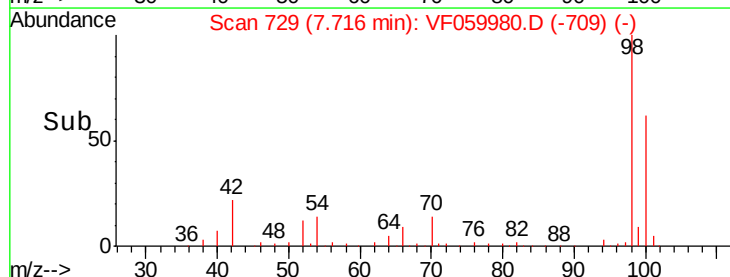
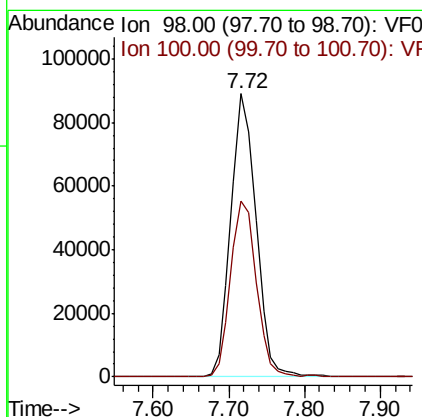
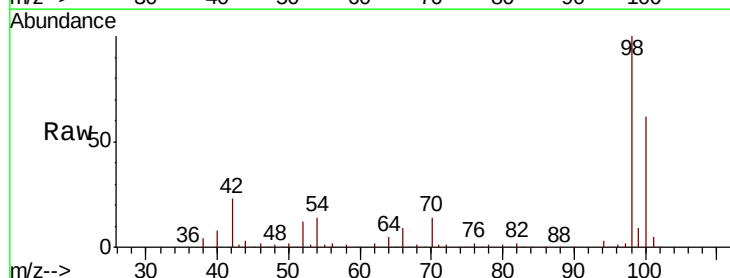
RT: 7.72 min Scan# 729

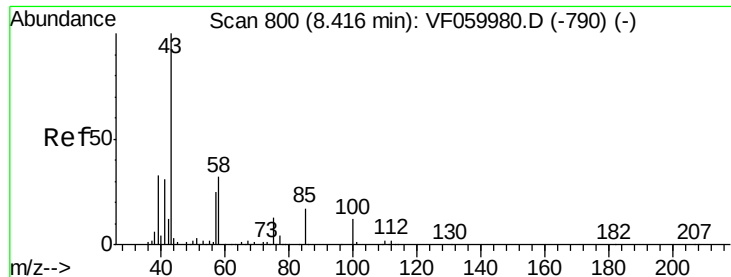
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion:	98	Resp:	206344
Ion	Ratio	Lower	Upper
98	100		
100	62.3	49.8	74.8





#51

4-Methyl-2-Pentanone

Concen: 232.62 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 287630

Ion Ratio Lower Upper

43 100

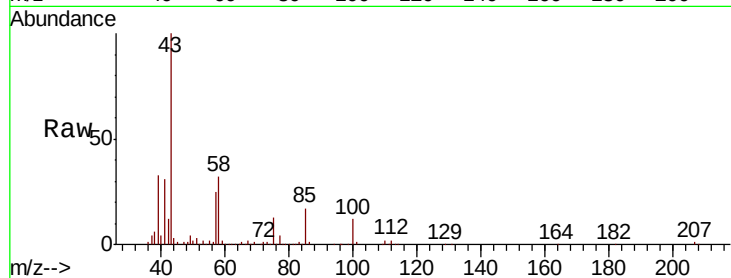
58 32.0 25.6 38.4

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

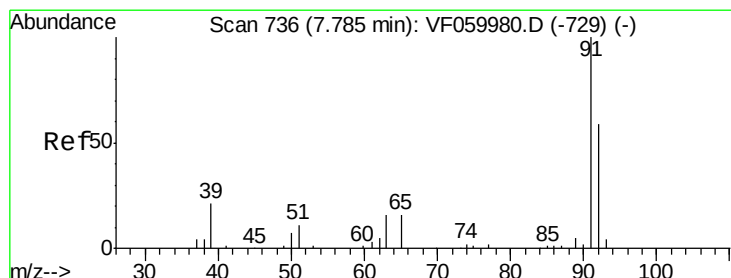
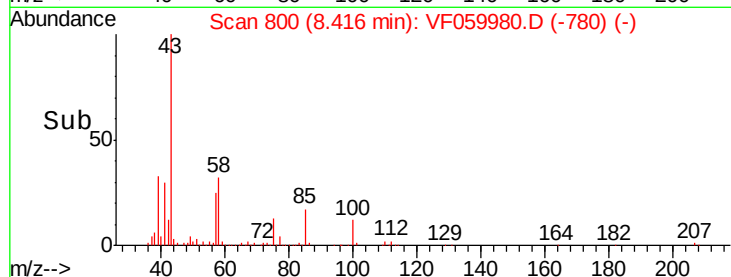
100000

50000

0

8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 48.47 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF059980.D

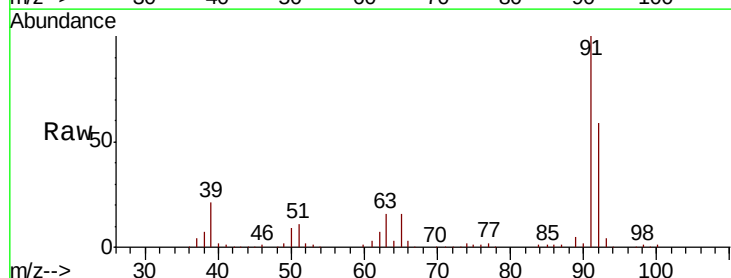
Acq: 17 Aug 2018 18:32

Tgt Ion: 92 Resp: 127944

Ion Ratio Lower Upper

92 100

91 170.6 136.5 204.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

100000

80000

60000

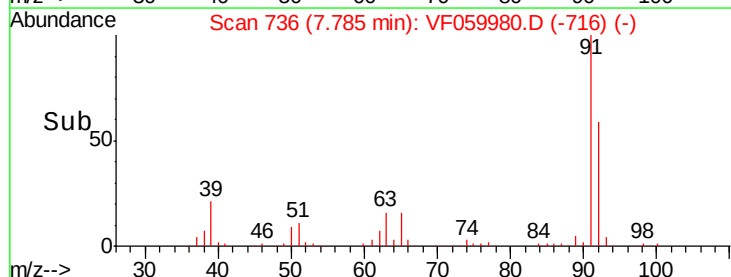
40000

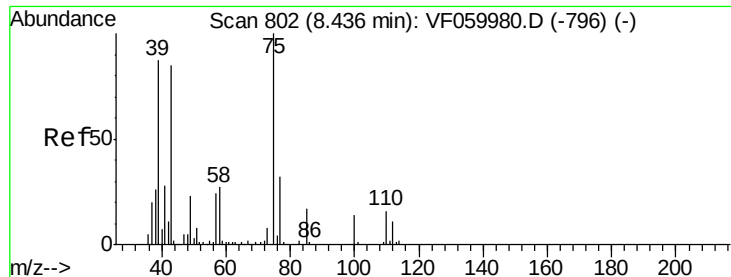
20000

0

7.70 7.80 7.90 8.00

Time-->





#53

t-1,3-Dichloropropene

Concen: 49.57 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 75 Resp: 112709

Ion Ratio Lower Upper

75 100

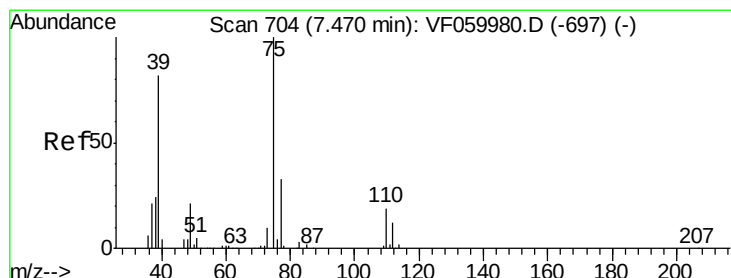
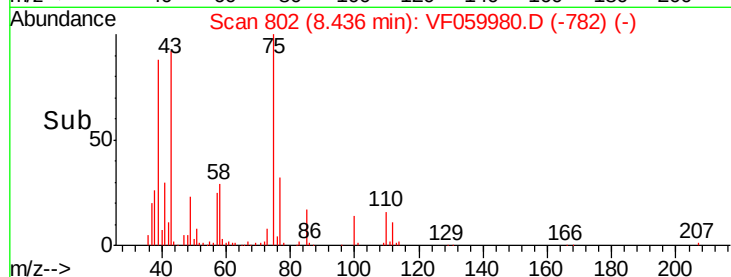
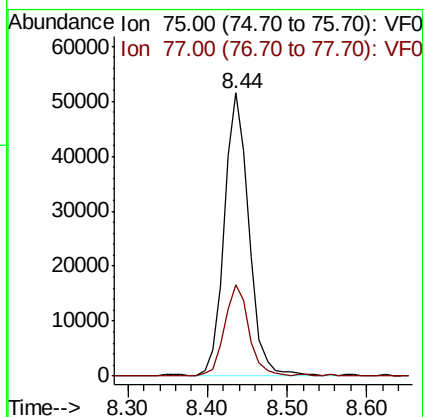
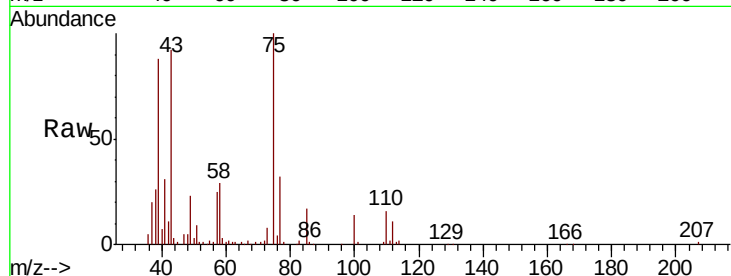
77 32.2 25.8 38.6

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#54

cis-1,3-Dichloropropene

Concen: 51.71 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

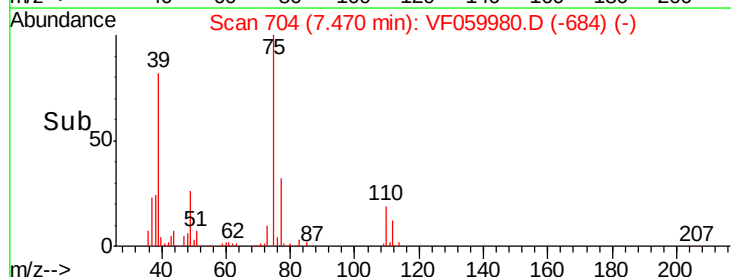
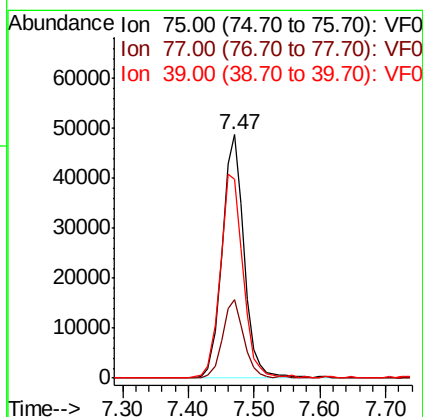
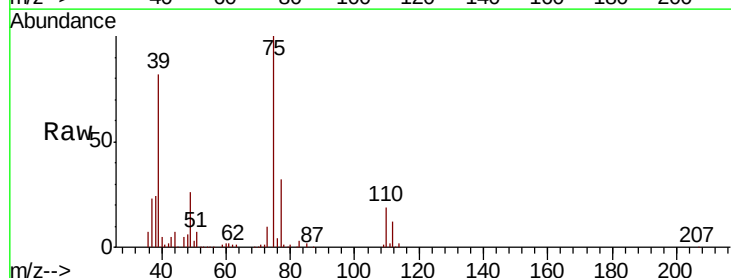
Tgt Ion: 75 Resp: 113322

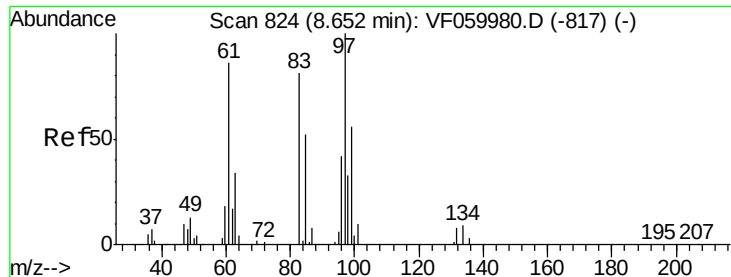
Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0

39 81.6 65.3 97.9





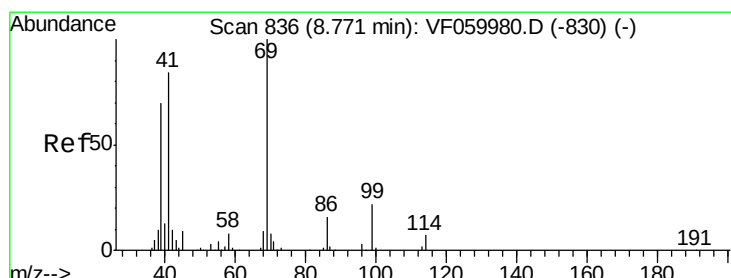
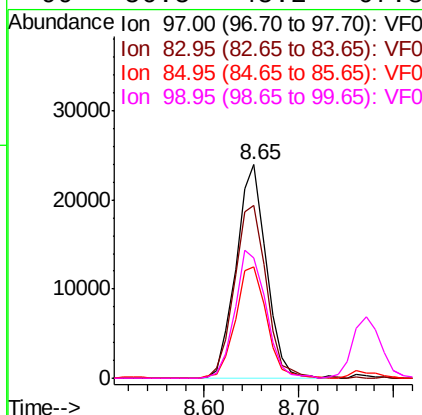
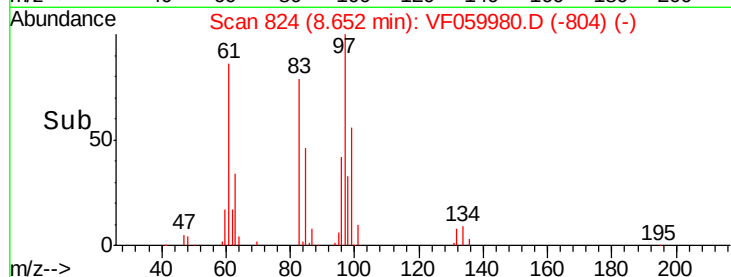
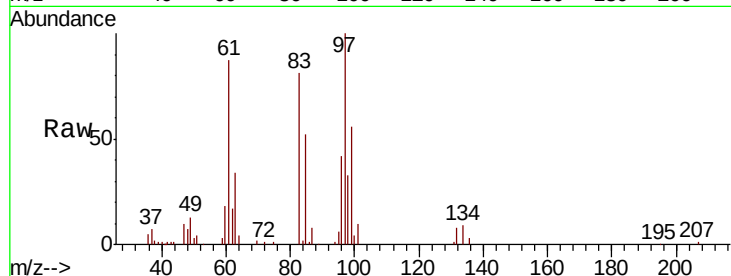
#55
 1,1,2-Trichloroethane
 Concen: 49.06 ug/l
 RT: 8.65 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion:	97	Resp:	53103
Ion	Ratio	Lower	Upper
97	100		
83	81.1	64.9	97.3
85	52.2	41.8	62.6
99	56.5	45.2	67.8

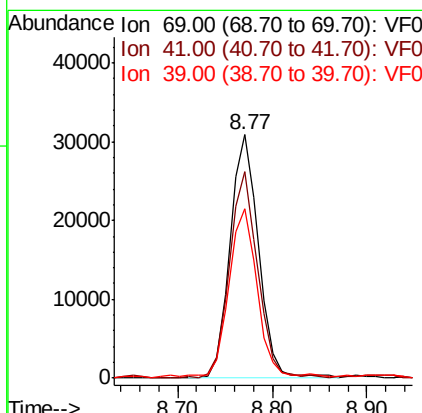
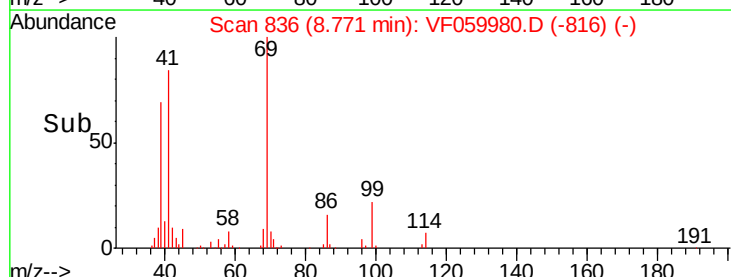
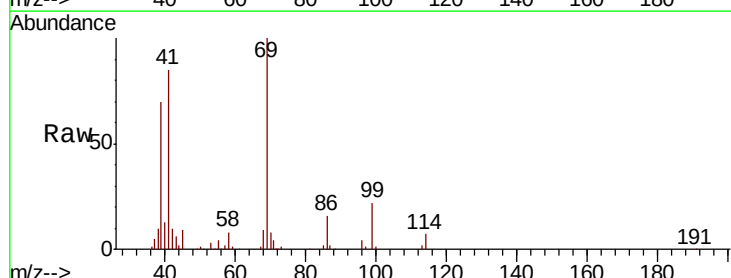
Manual Integrations
 APPROVED

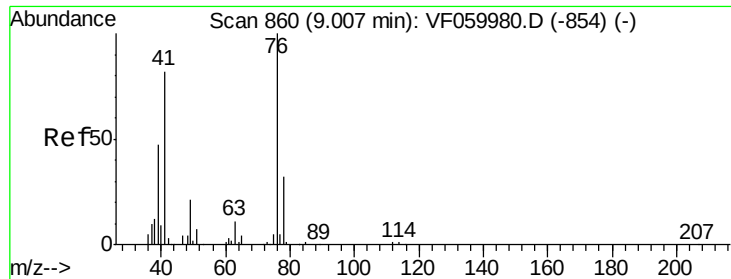
apatel
 8/20/2018 11:48:18 AM



#56
 Ethyl methacrylate
 Concen: 50.91 ug/l
 RT: 8.77 min Scan# 836
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion:	69	Resp:	64199
Ion	Ratio	Lower	Upper
69	100		
41	84.7	67.8	101.6
39	69.7	55.8	83.6





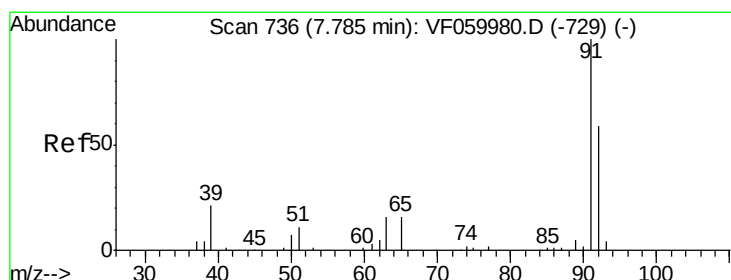
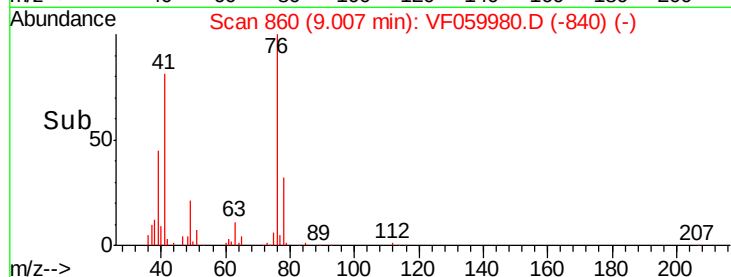
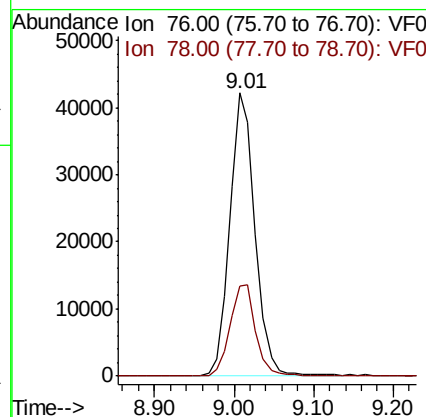
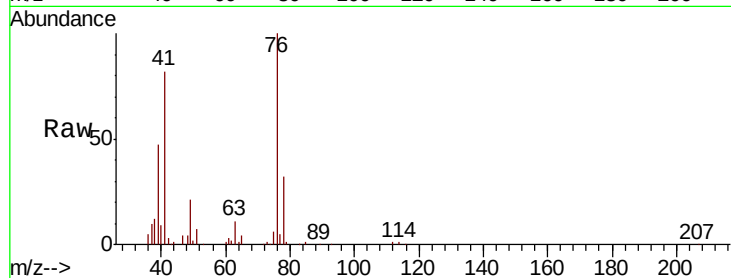
#57
 1,3-Dichloropropane
 Concen: 48.80 ug/l
 RT: 9.01 min Scan# 860
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.3	37.9

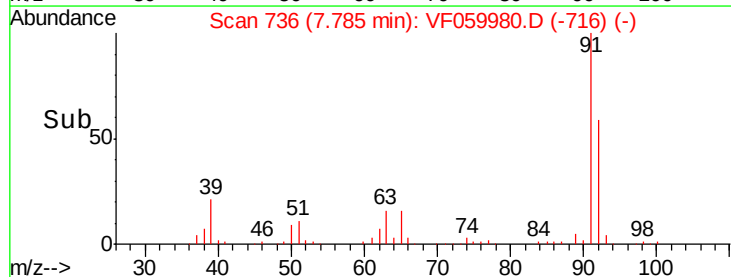
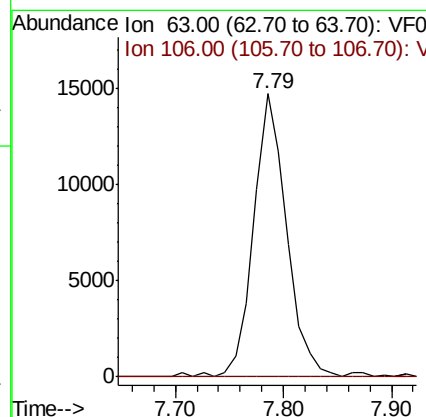
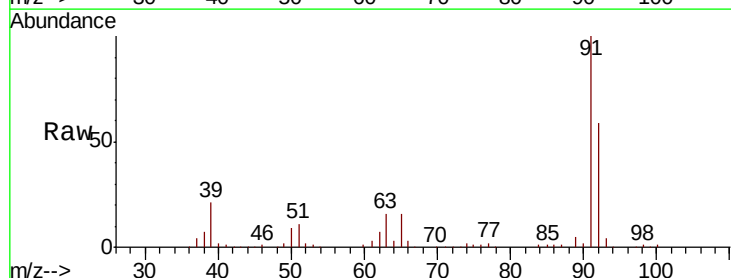
Manual Integrations
 APPROVED

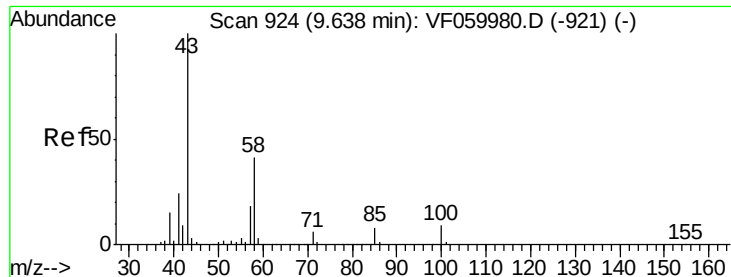
apatel
 8/20/2018 11:48:18 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 302.06 ug/l
 RT: 7.79 min Scan# 736
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





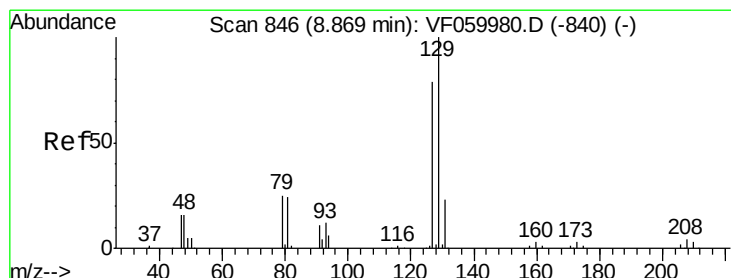
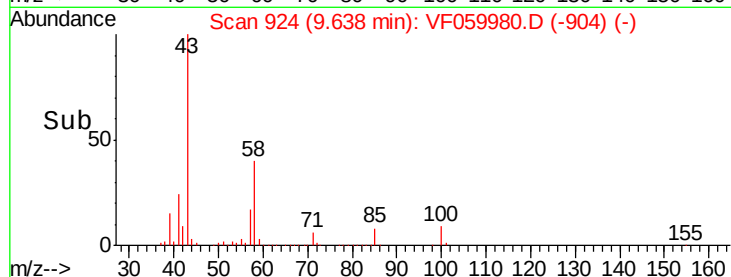
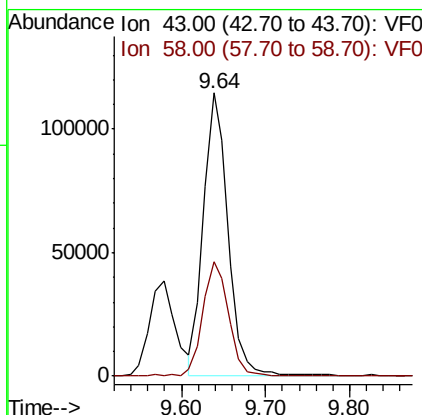
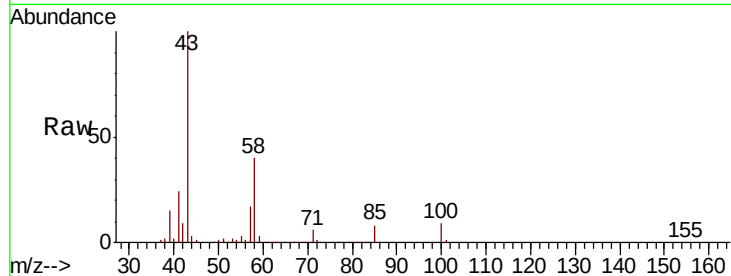
#59
2-Hexanone
Concen: 225.47 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.2	20.1	60.3

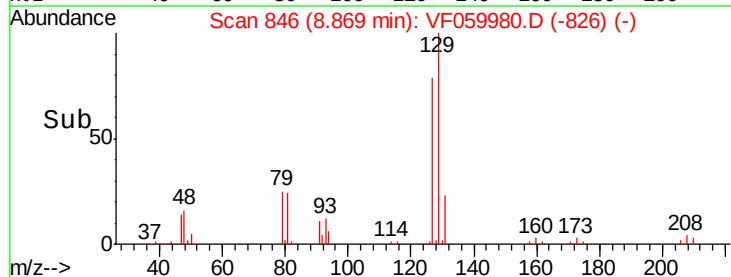
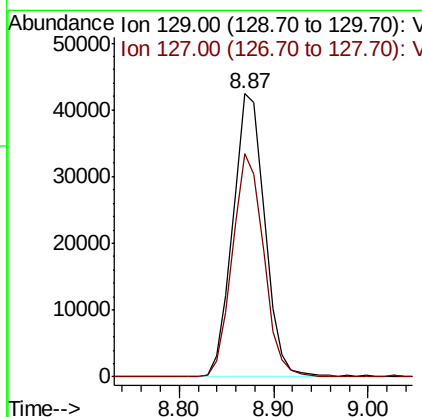
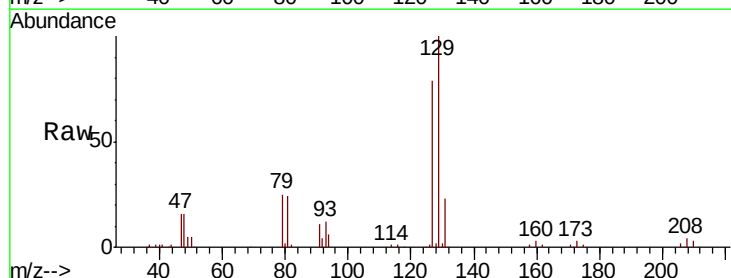
Manual Integrations
APPROVED

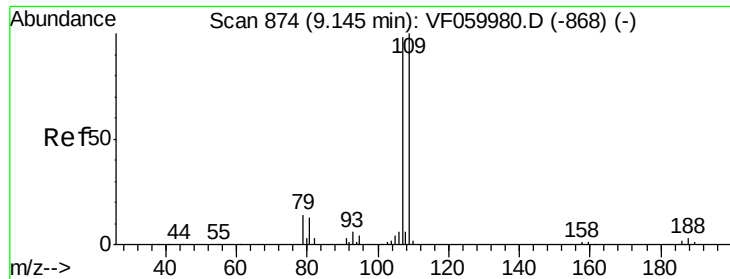
apatel
8/20/2018 11:48:18 AM



#60
Dibromochloromethane
Concen: 50.76 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.5	118.5





#61

1,2-Dibromoethane

Concen: 49.00 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:107 Resp: 66905

Ion Ratio Lower Upper

107 100

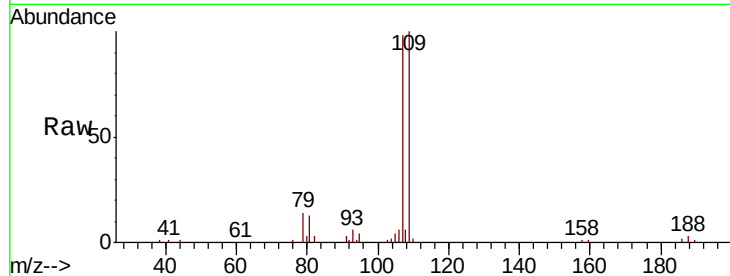
109 102.1 81.7 122.5

Manual Integrations

APPROVED

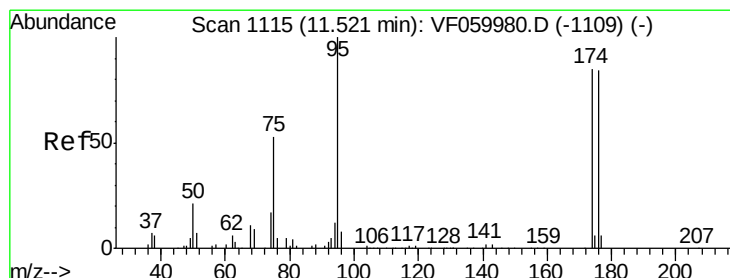
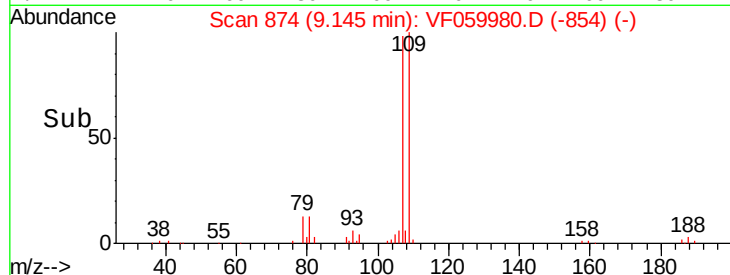
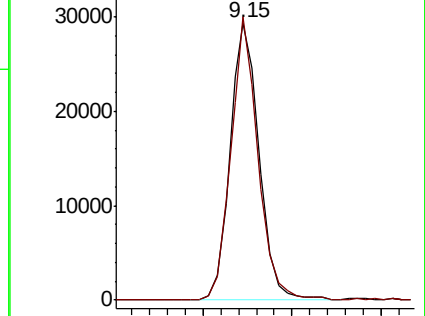
apatel

8/20/2018 11:48:18 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.99 ug/l

RT: 11.52 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

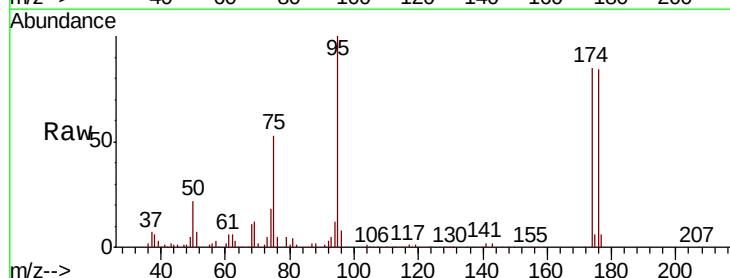
Tgt Ion: 95 Resp: 128842

Ion Ratio Lower Upper

95 100

174 84.9 0.0 169.8

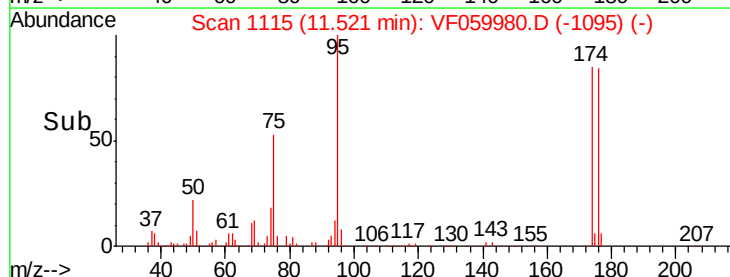
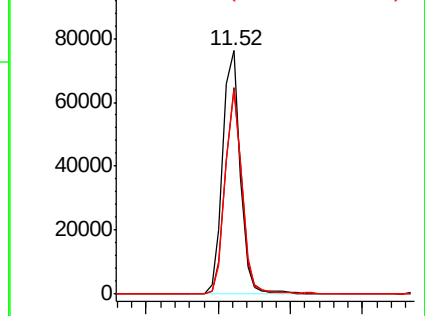
176 83.9 0.0 167.8

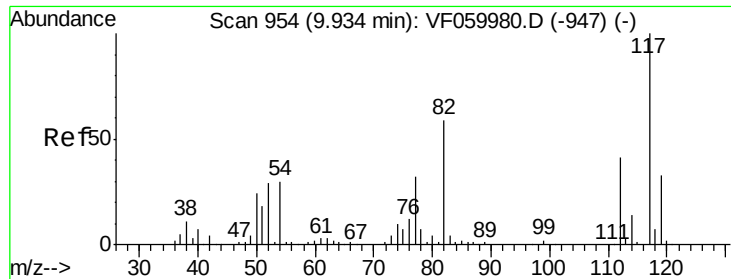


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





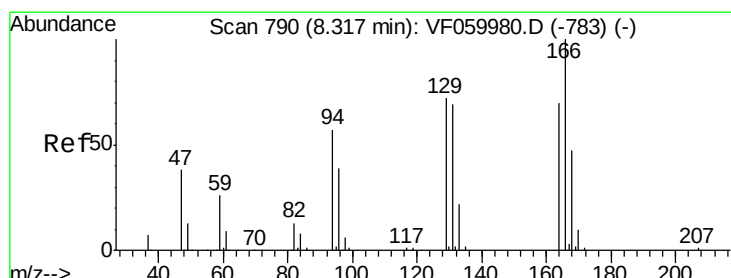
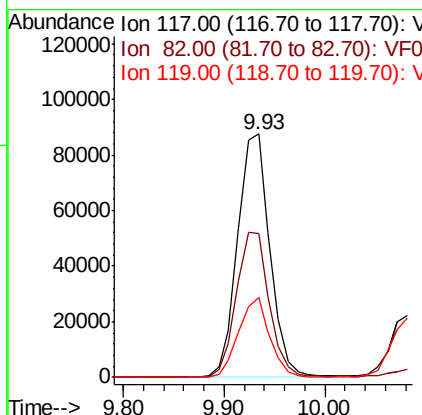
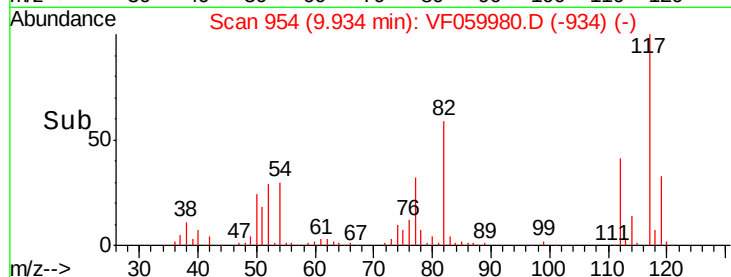
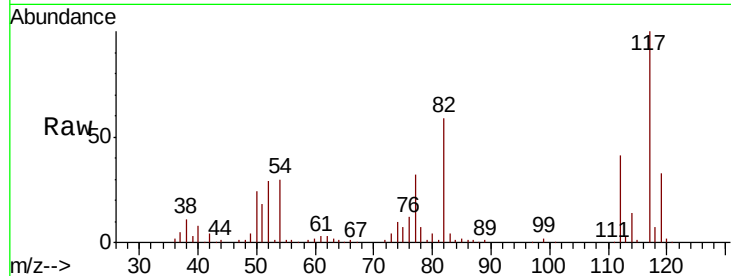
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	195911		
82	59.0	47.2	70.8	
119	32.6	26.1	39.1	

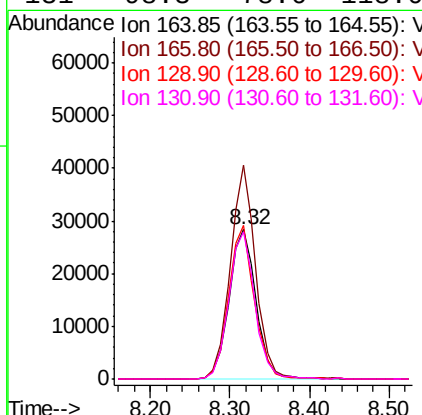
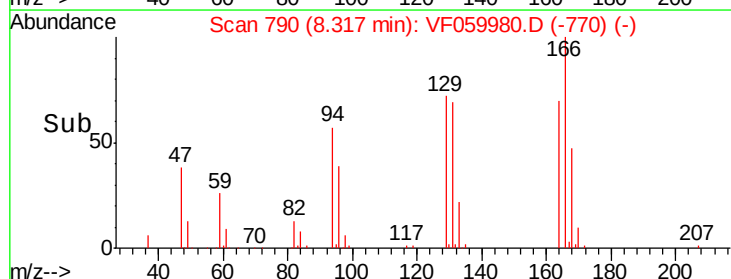
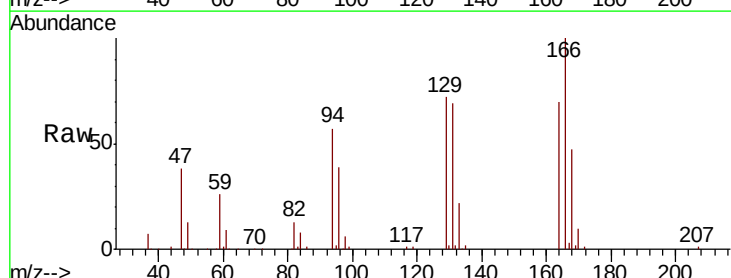
Manual Integrations
APPROVED

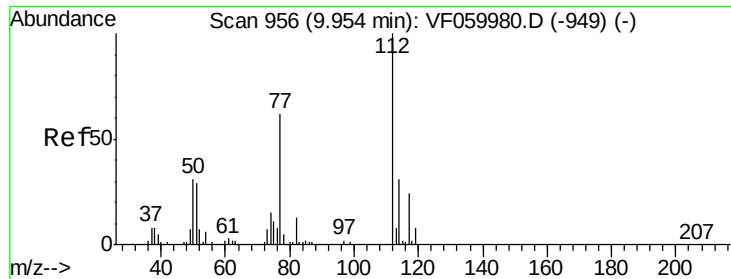
apatel
8/20/2018 11:48:18 AM



#64
Tetrachloroethene
Concen: 45.42 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	66789		
166	143.1	114.5	171.7	
129	102.9	82.3	123.5	
131	98.3	78.6	118.0	





#65

Chlorobenzene

Concen: 47.37 ug/l

RT: 9.95 min Scan# 956

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:112 Resp: 181075

Ion Ratio Lower Upper

112 100

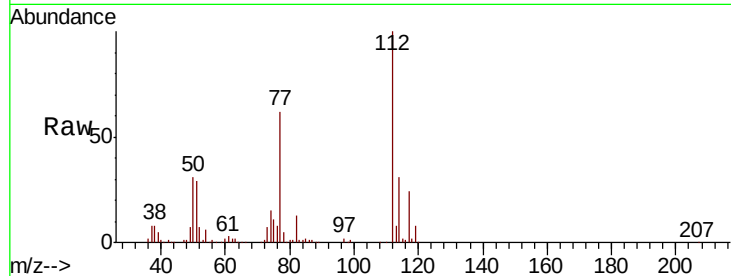
114 31.2 25.0 37.4

Manual Integrations

APPROVED

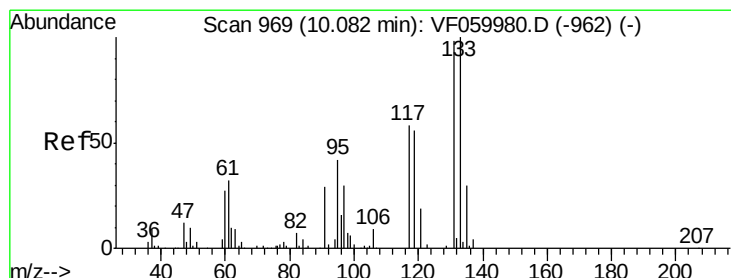
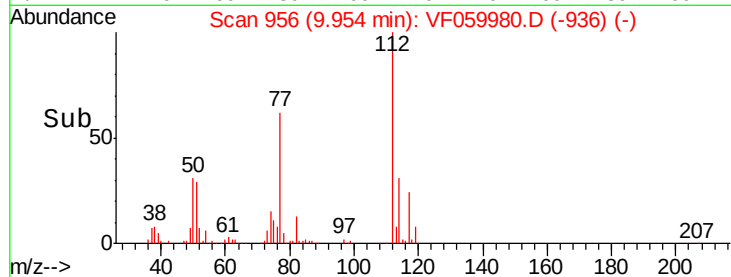
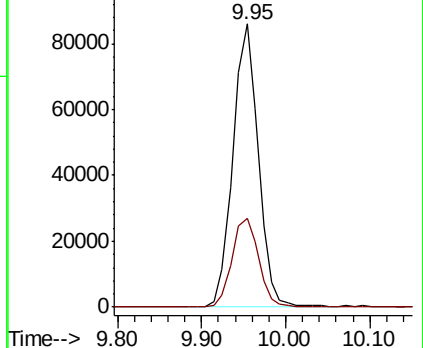
apatel

8/20/2018 11:48:18 AM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 47.60 ug/l

RT: 10.08 min Scan# 969

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

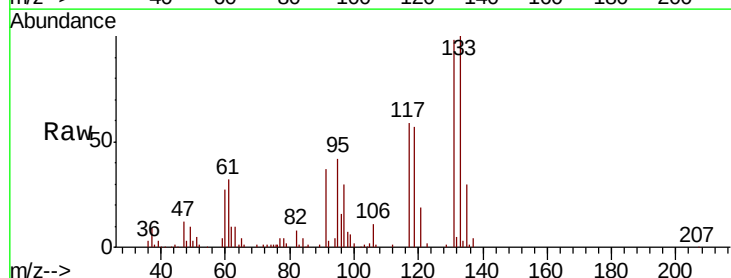
Tgt Ion:131 Resp: 83628

Ion Ratio Lower Upper

131 100

133 102.2 51.1 153.3

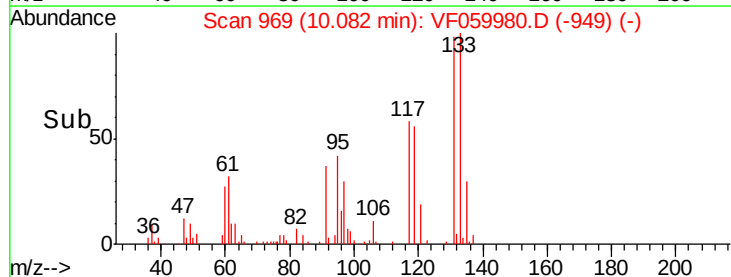
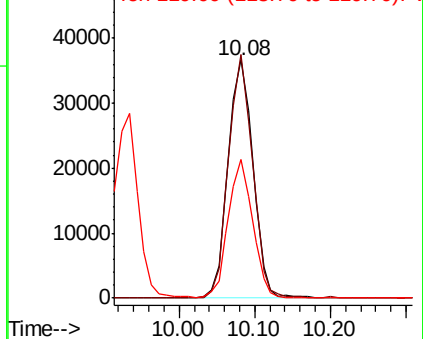
119 58.1 29.0 87.1

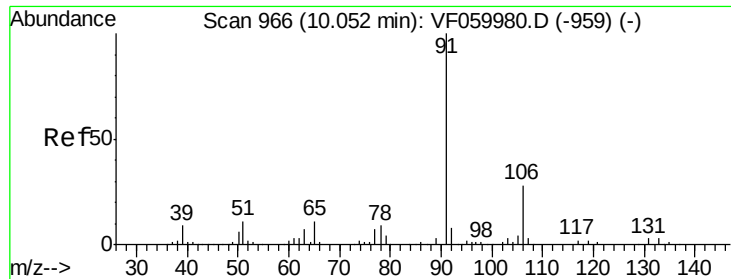


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 47.19 ug/l

RT: 10.05 min Scan# 966

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 323798

Ion Ratio Lower Upper

91 100

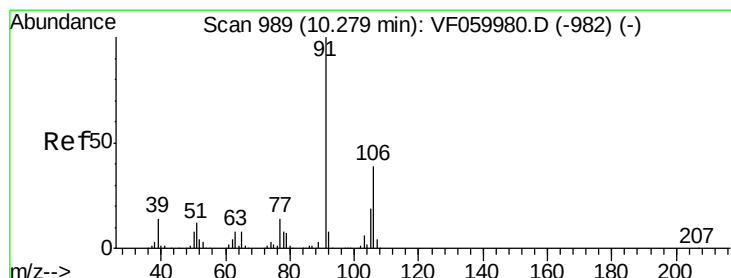
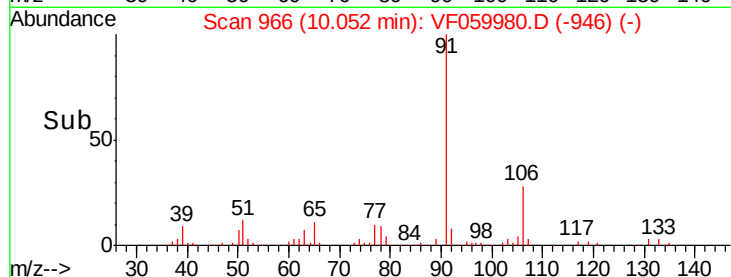
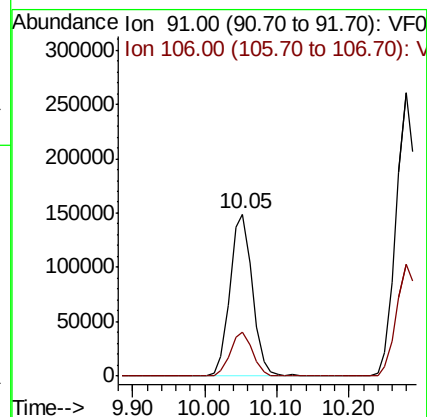
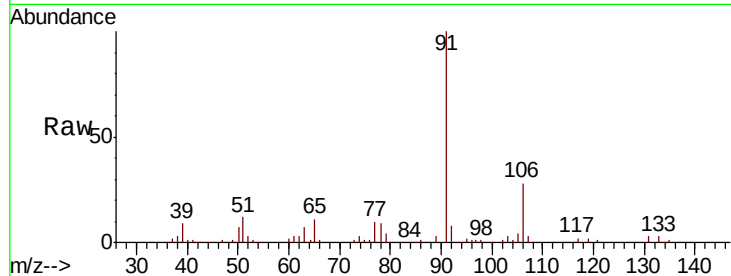
106 27.5 22.0 33.0

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#68

m/p-Xylenes

Concen: 89.23 ug/l

RT: 10.28 min Scan# 989

Delta R.T. 0.00 min

Lab File: VF059980.D

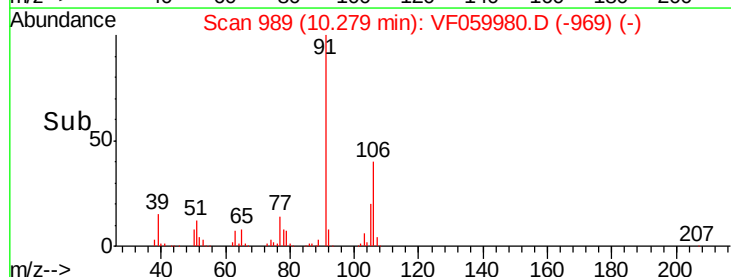
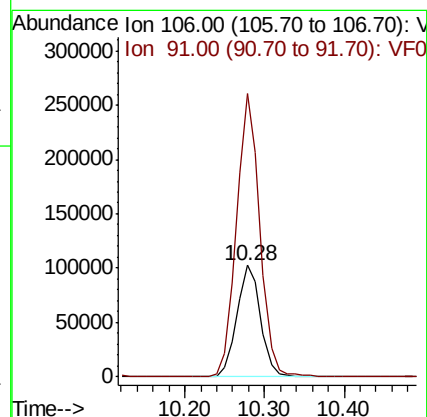
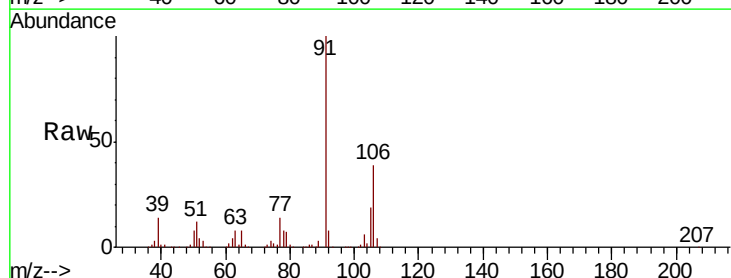
Acq: 17 Aug 2018 18:32

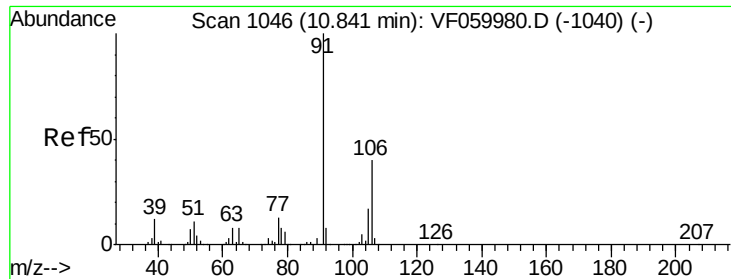
Tgt Ion: 106 Resp: 213080

Ion Ratio Lower Upper

106 100

91 254.4 203.5 305.3





#69

o-Xylene

Concen: 49.79 ug/l

RT: 10.84 min Scan# 1046

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:106 Resp: 122289

Ion Ratio Lower Upper

106 100

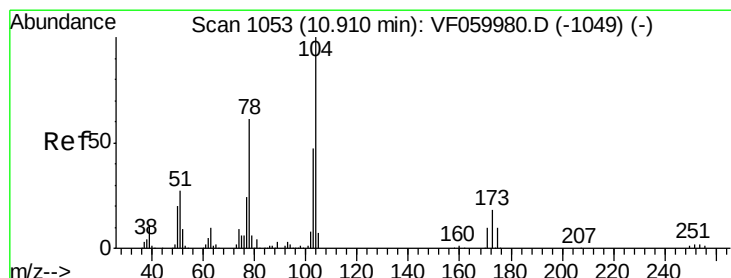
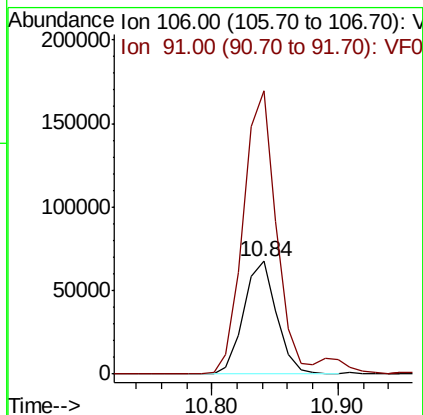
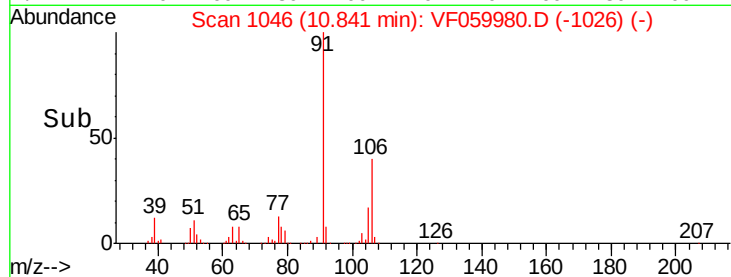
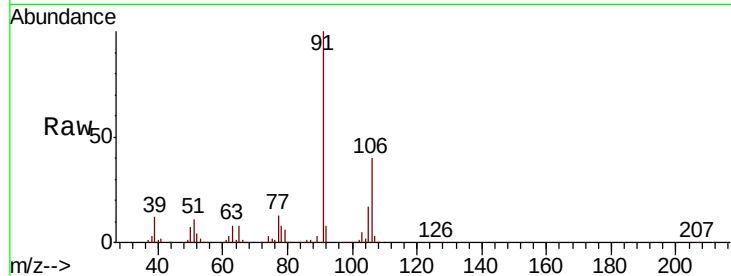
91 250.8 125.4 376.2

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#70

Styrene

Concen: 46.96 ug/l

RT: 10.91 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

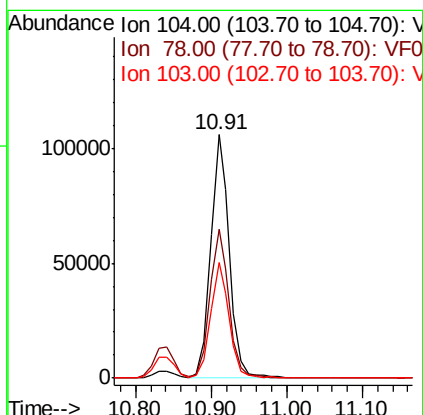
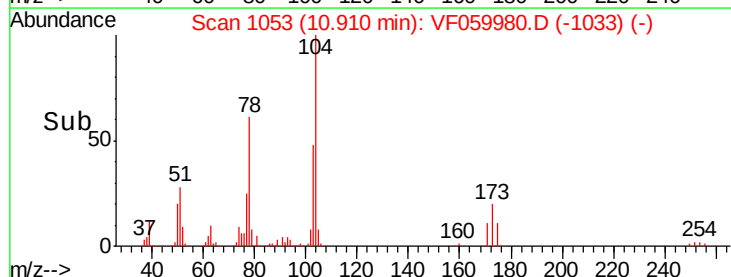
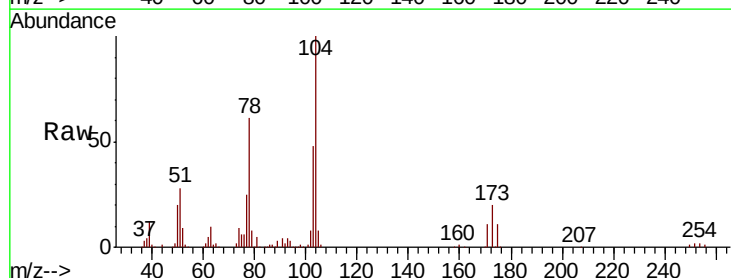
Tgt Ion:104 Resp: 183661

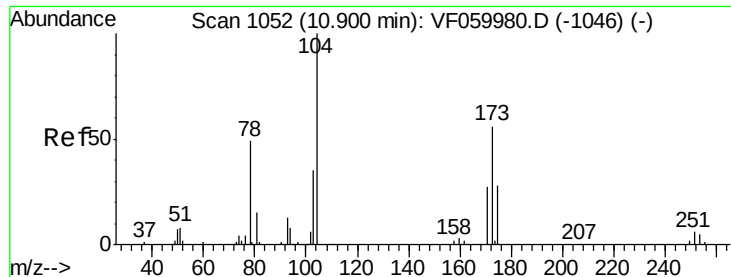
Ion Ratio Lower Upper

104 100

78 61.3 49.0 73.6

103 47.8 38.2 57.4





#71

Bromoform

Concen: 45.88 ug/l

RT: 10.90 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

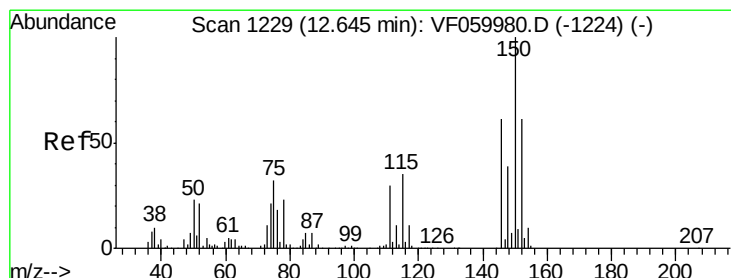
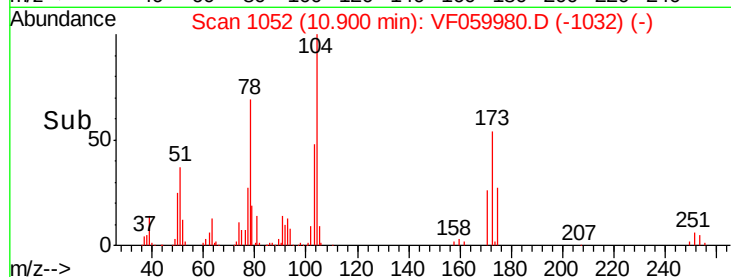
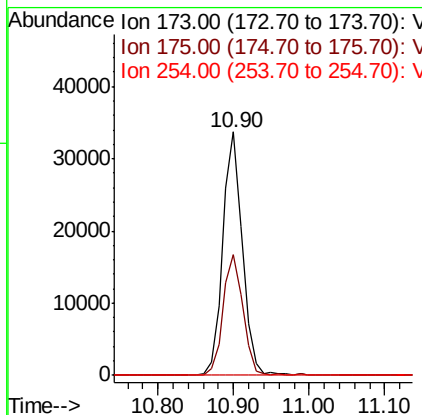
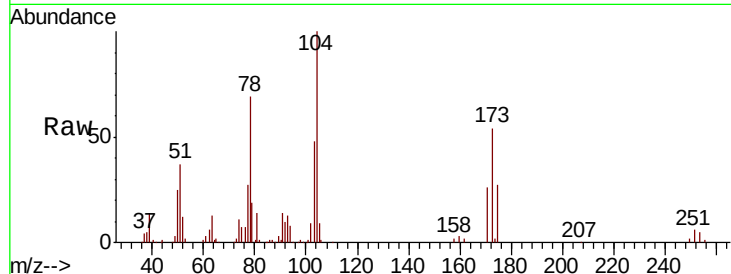
ClientSampleId :

VSTDICCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.8	74.3
254	0.0	0.0	0.0

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

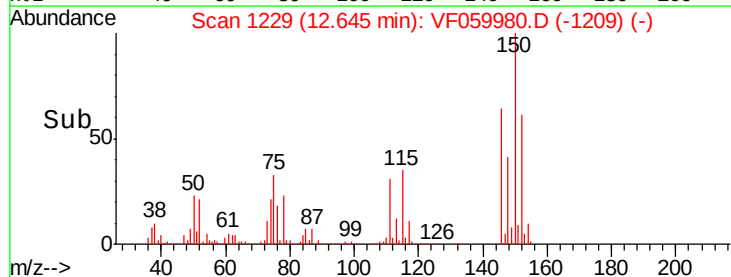
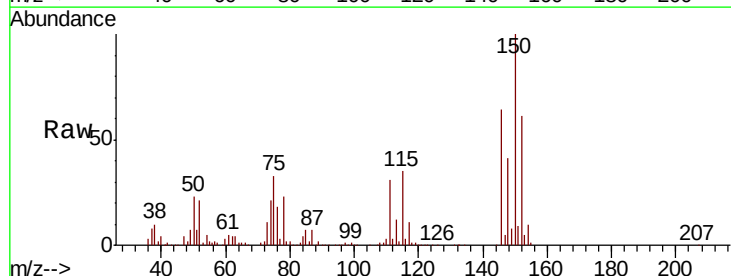
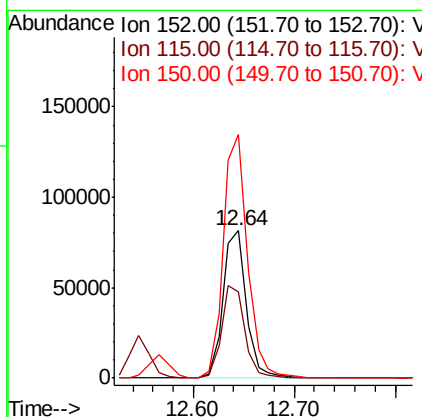
RT: 12.64 min Scan# 1229

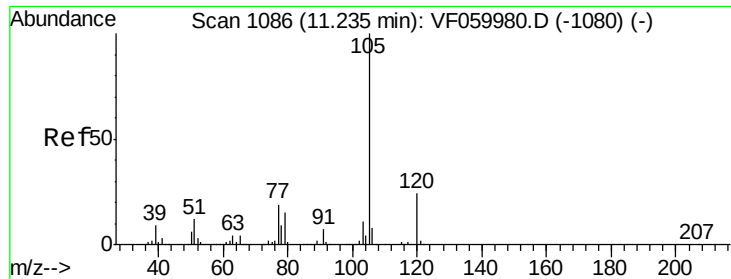
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.2	29.1	87.3
150	165.1	0.0	330.2





#73

Isopropylbenzene

Concen: 48.73 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 382334

Ion Ratio Lower Upper

105 100

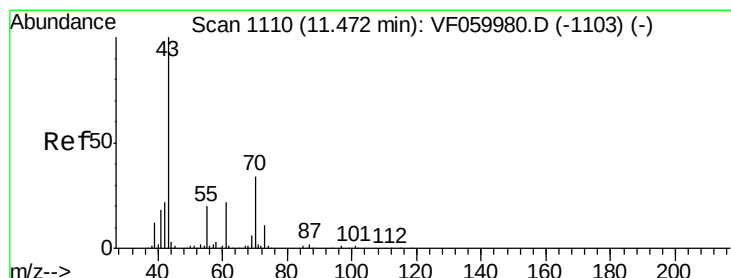
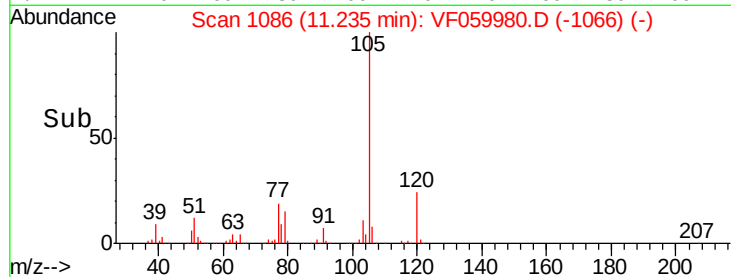
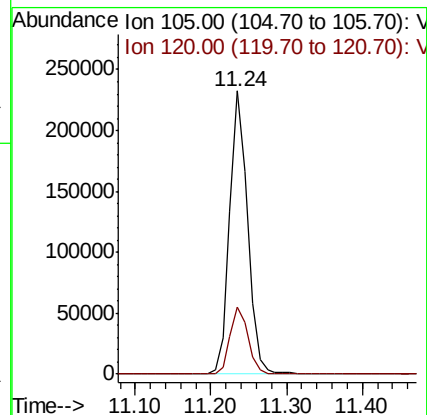
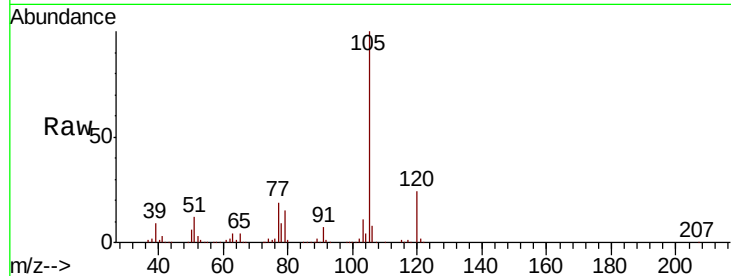
120 23.7 11.9 35.5

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#74

N-ethyl acetate

Concen: 50.07 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion: 43 Resp: 116184

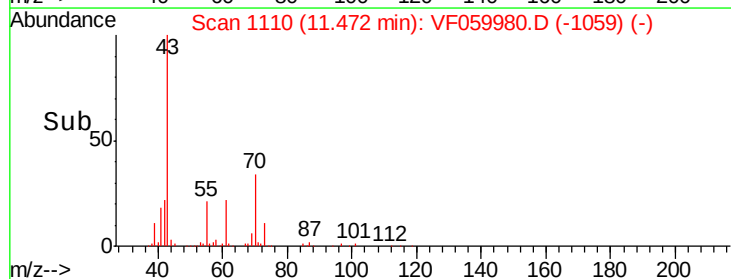
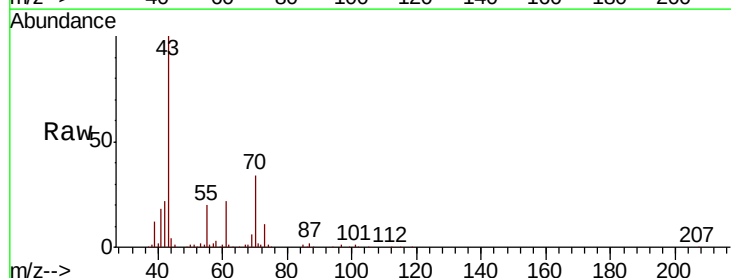
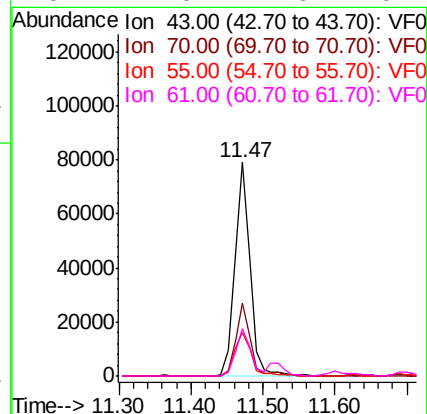
Ion Ratio Lower Upper

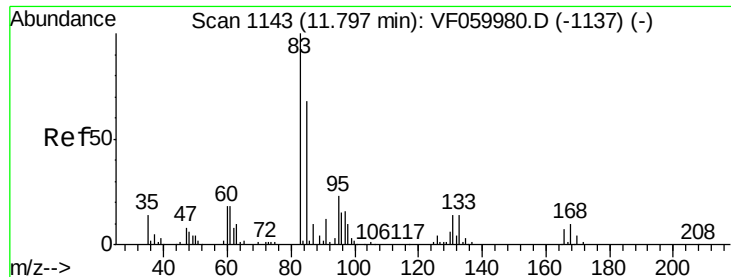
43 100

70 34.0 27.2 40.8

55 20.5 16.4 24.6

61 22.0 17.6 26.4





#75

1,1,2,2-Tetrachloroethane

Concen: 46.99 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

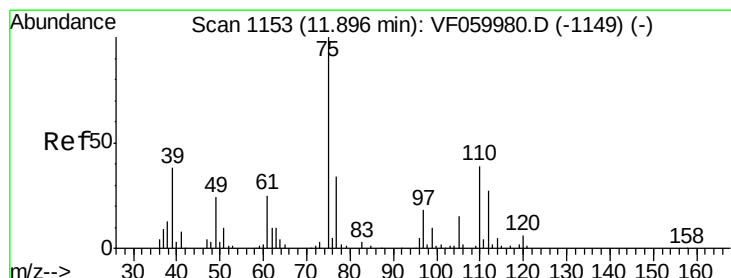
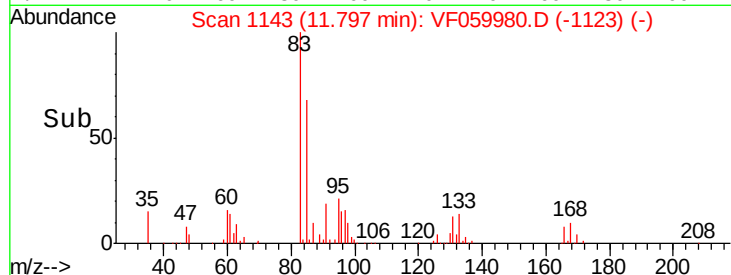
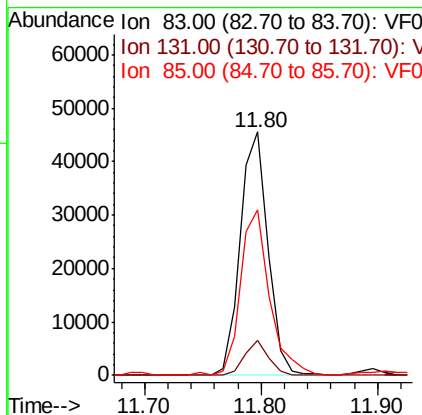
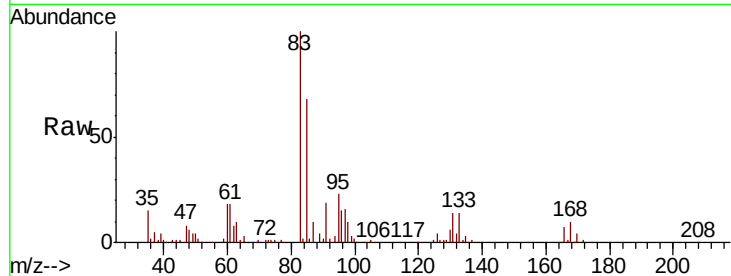
ClientSampleId :

VSTDICCC050

Tot Ion	83	Resp	75207
Ion	Ratio	Lower	Upper
83	100		
131	14.4	7.2	21.6
85	68.1	34.1	102.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#76

1,2,3-Trichloropropane

Concen: 46.23 ug/l

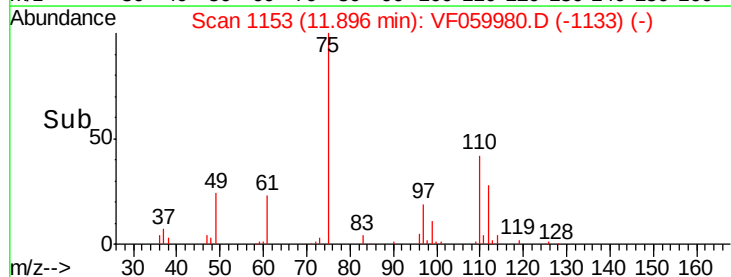
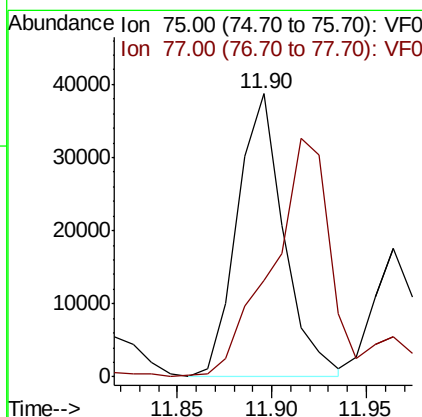
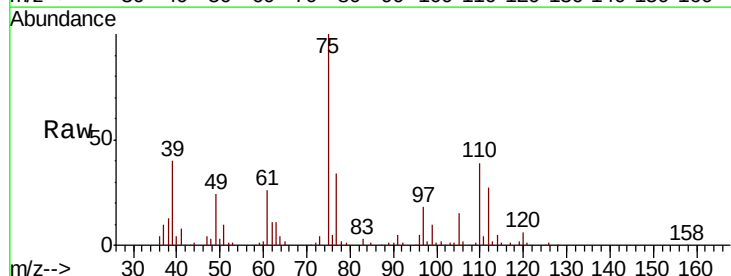
RT: 11.90 min Scan# 1153

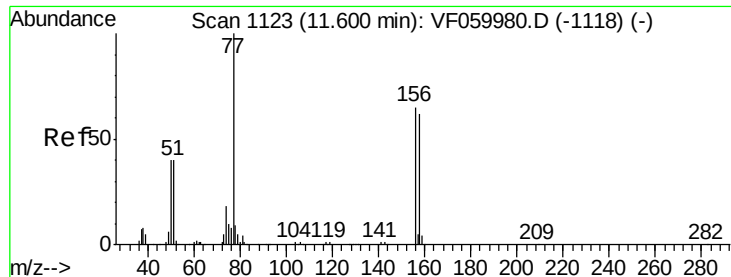
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion	75	Resp	66145
Ion	Ratio	Lower	Upper
75	100		
77	34.2	17.1	51.3





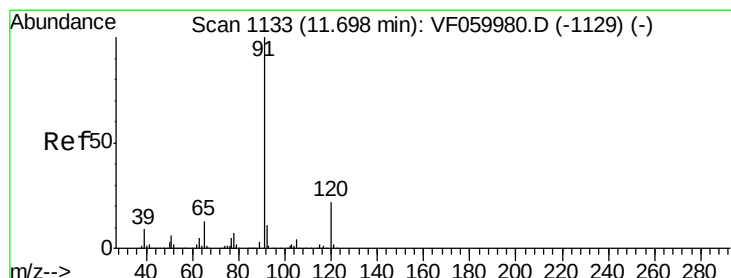
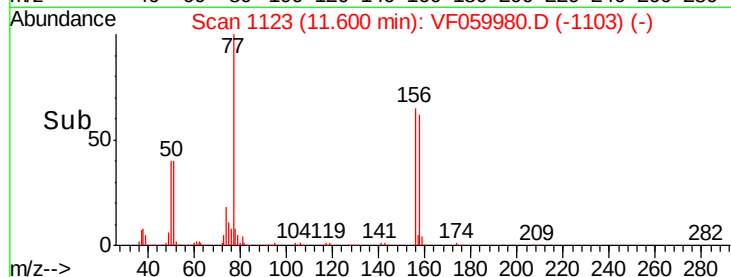
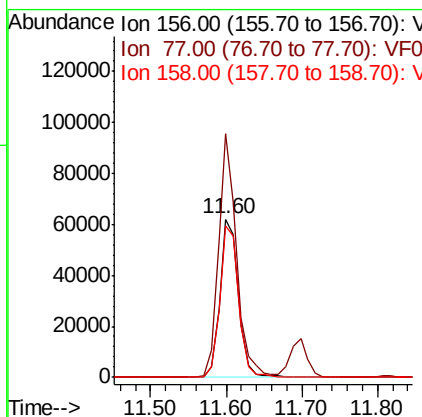
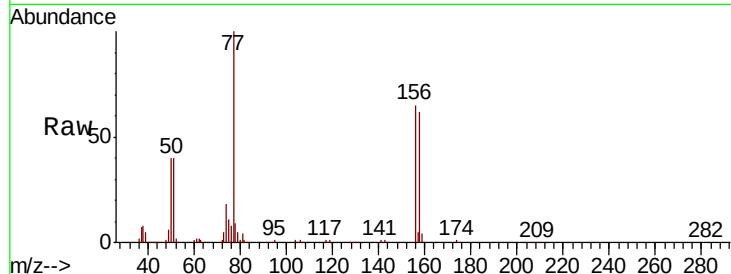
#77
Bromobenzene
Concen: 48.17 ug/l
RT: 11.60 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	153.8	76.9	230.7	
158	95.4	47.7	143.1	

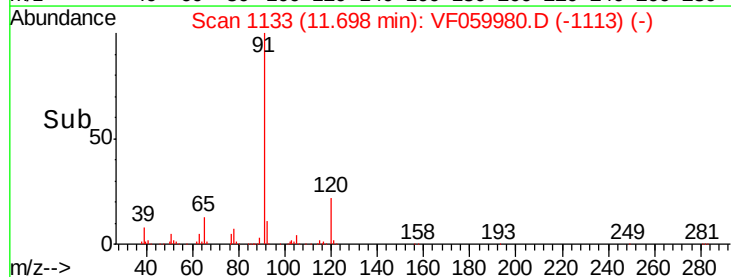
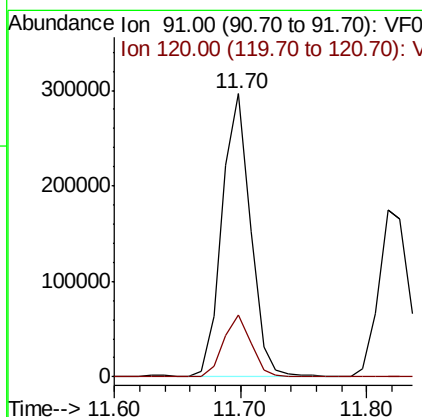
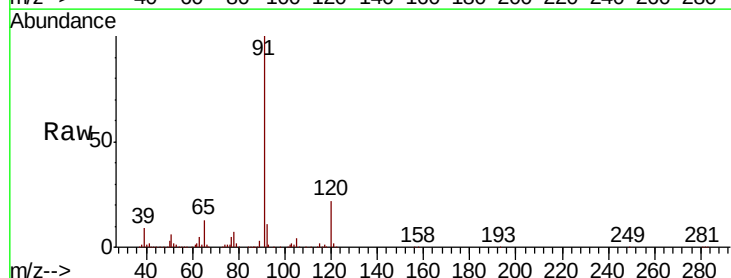
Manual Integrations
APPROVED

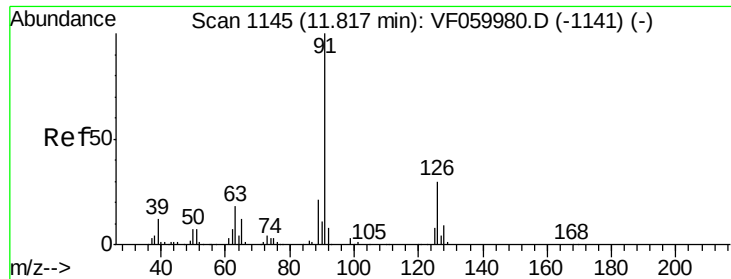
apatel
8/20/2018 11:48:18 AM



#78
n-propylbenzene
Concen: 47.35 ug/l
RT: 11.70 min Scan# 1133
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.0	11.0	33.0	





#79

2-Chlorotoluene

Concen: 48.82 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 291314

Ion Ratio Lower Upper

91 100

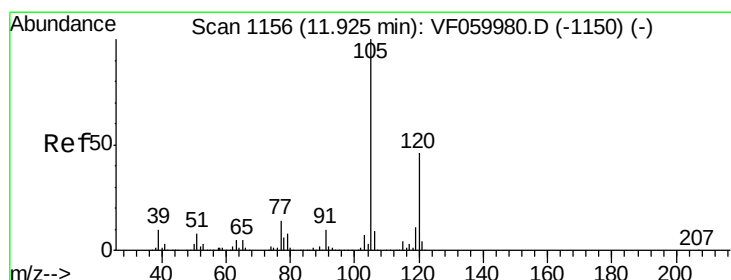
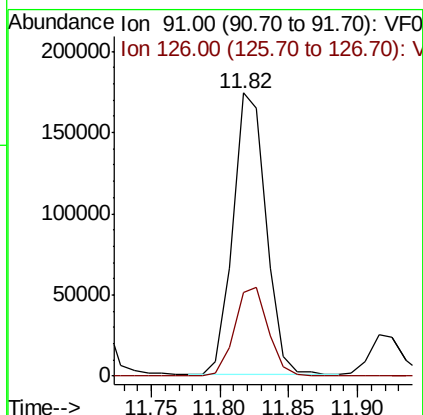
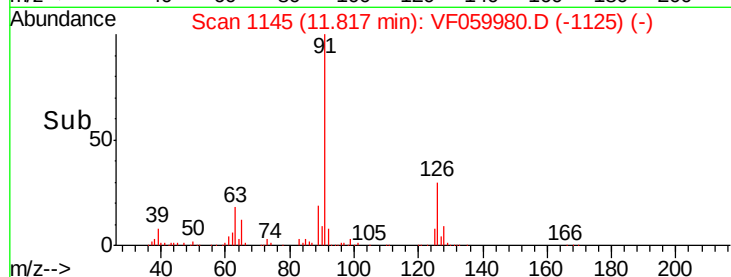
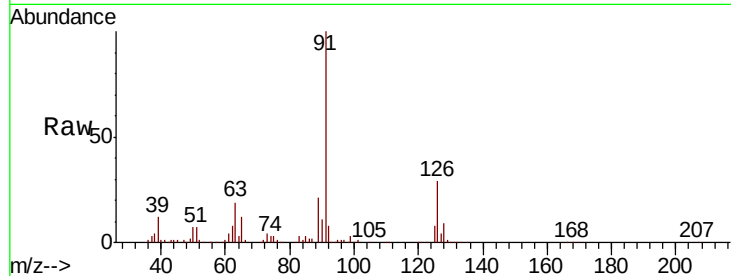
126 29.4 14.7 44.1

Manual Integrations

APPROVED

apatel

8/20/2018 11:48:18 AM



#80

1,3,5-Trimethylbenzene

Concen: 49.12 ug/l

RT: 11.93 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VF059980.D

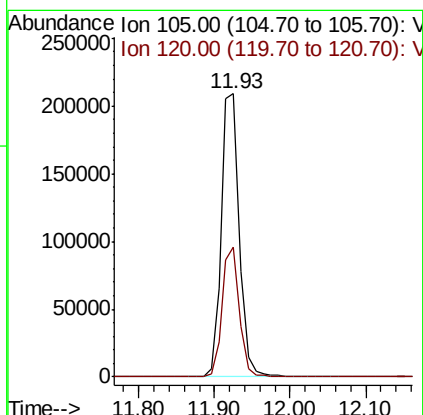
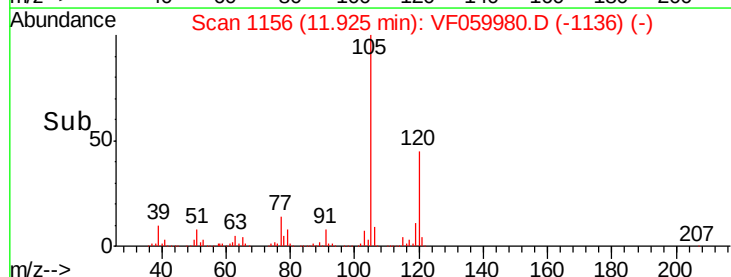
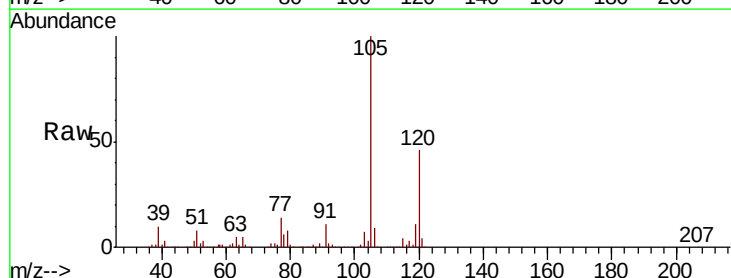
Acq: 17 Aug 2018 18:32

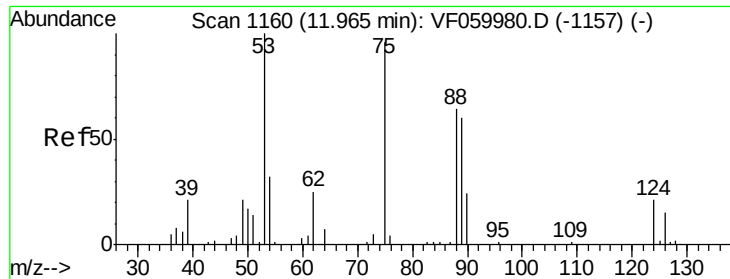
Tgt Ion: 105 Resp: 348914

Ion Ratio Lower Upper

105 100

120 45.8 22.9 68.7





#81

trans-1,4-Dichloro-2-butene

Concen: 38.53 ug/l m

RT: 11.96 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 75 Resp: 28422

Ion Ratio Lower Upper

75 100

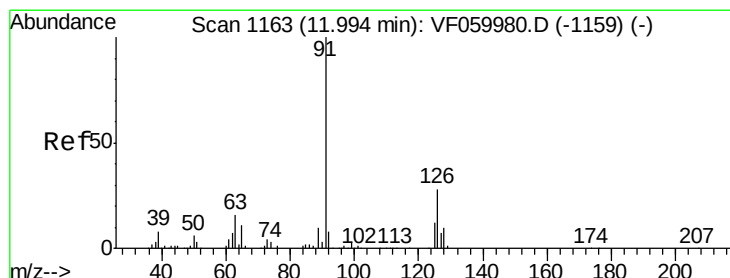
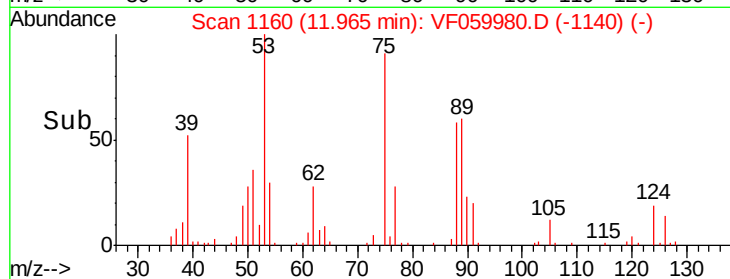
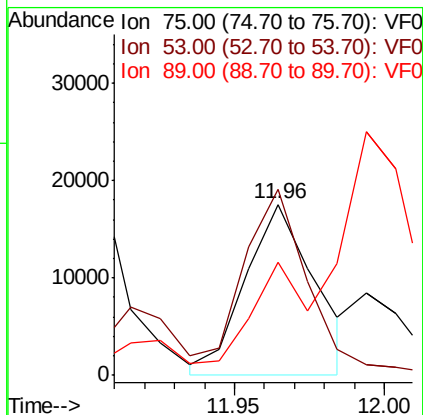
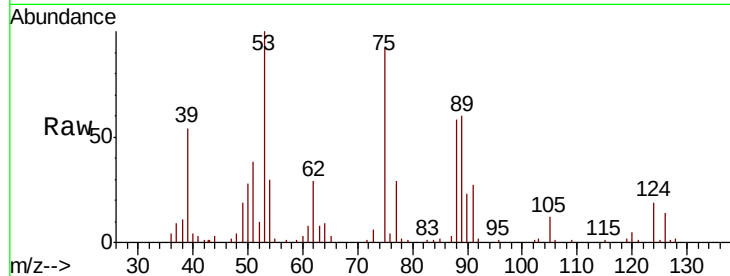
53 109.2 87.4 131.0

89 66.0 52.8 79.2

Manual Integrations
APPROVED

apatel

8/20/2018 11:48:18 AM



#82

4-Chlorotoluene

Concen: 48.46 ug/l

RT: 11.99 min Scan# 1163

Delta R.T. 0.00 min

Lab File: VF059980.D

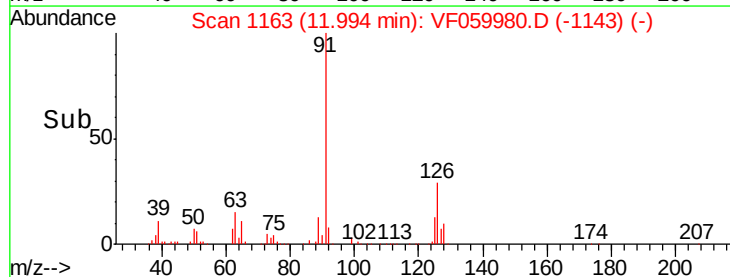
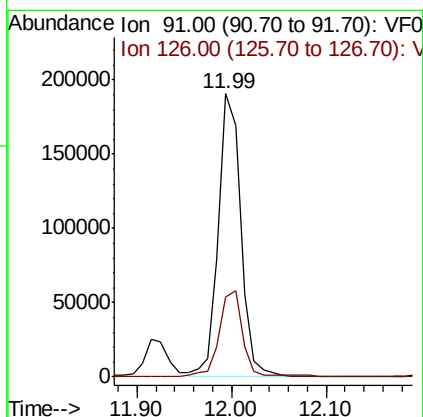
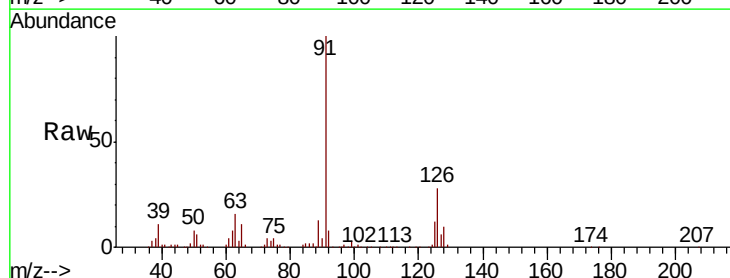
Acq: 17 Aug 2018 18:32

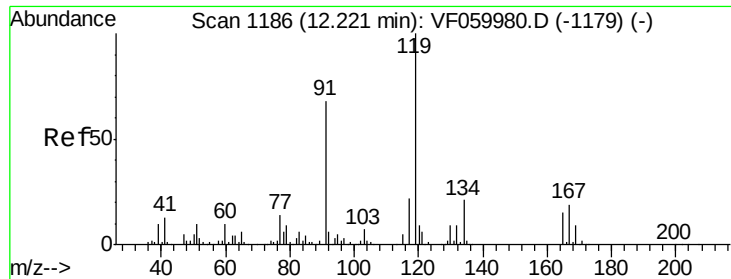
Tgt Ion: 91 Resp: 314887

Ion Ratio Lower Upper

91 100

126 28.3 14.1 42.4





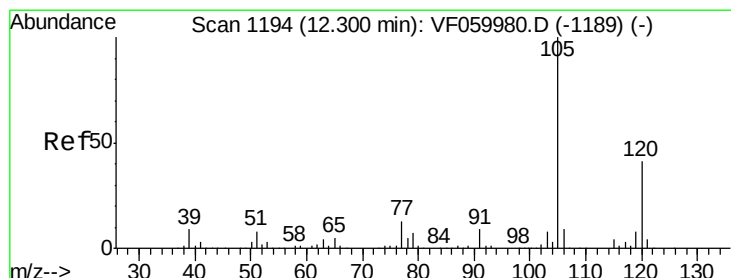
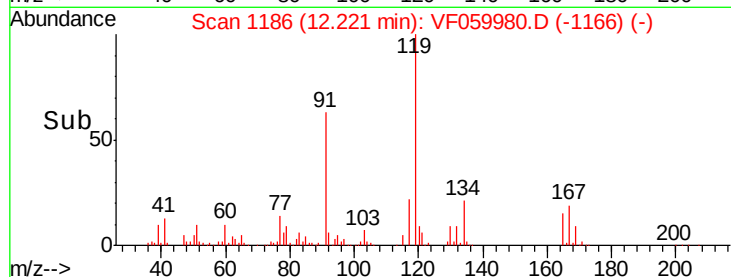
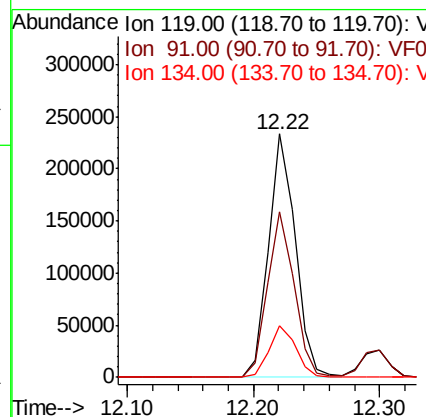
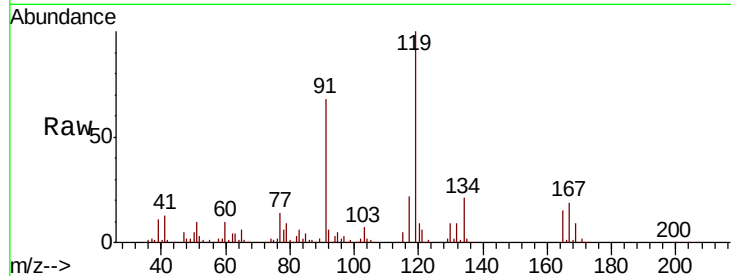
#83
 tert-Butylbenzene
 Concen: 49.48 ug/l
 RT: 12.22 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.1	34.1	102.2
134	21.1	10.5	31.6

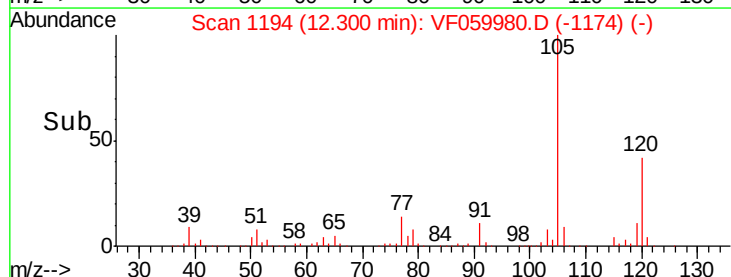
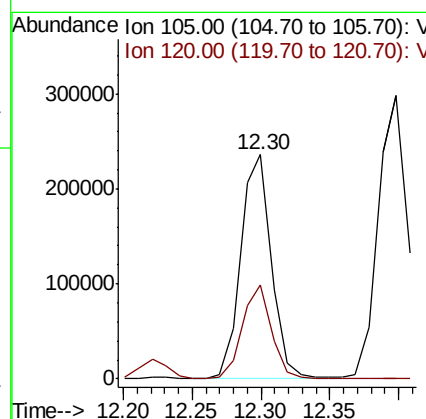
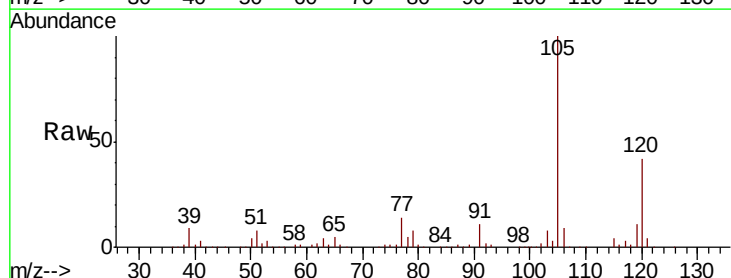
Manual Integrations
 APPROVED

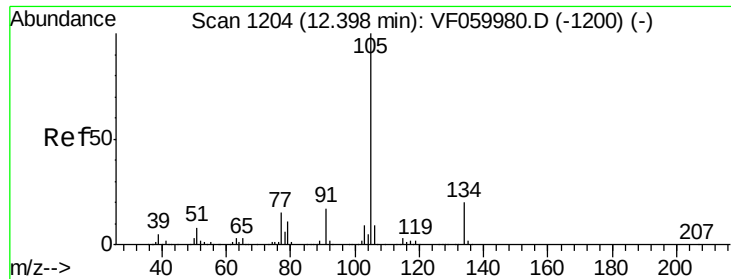
apatel
 8/20/2018 11:48:18 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 49.06 ug/l
 RT: 12.30 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.8	20.9	62.7





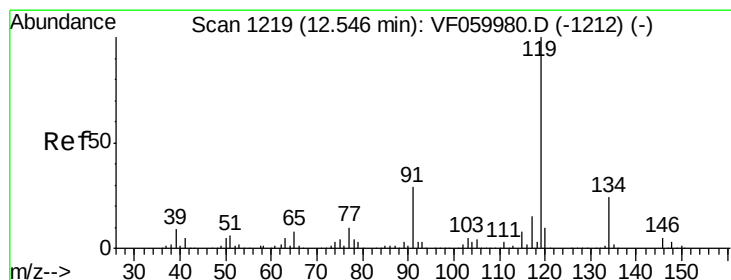
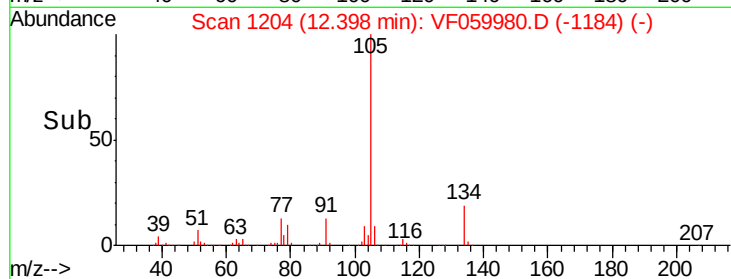
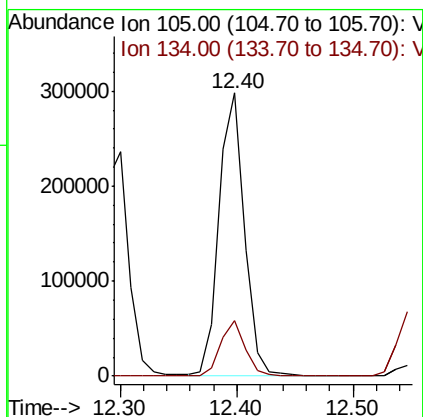
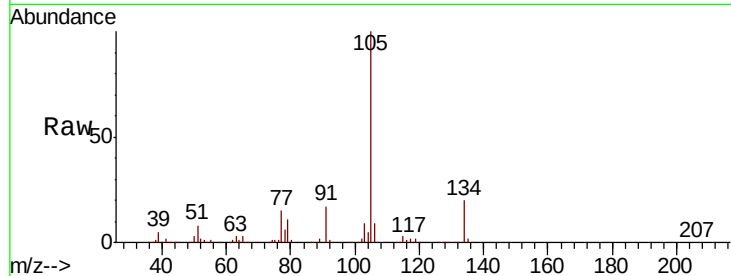
#85
 sec-Butylbenzene
 Concen: 49.03 ug/l
 RT: 12.40 min Scan# 1204
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

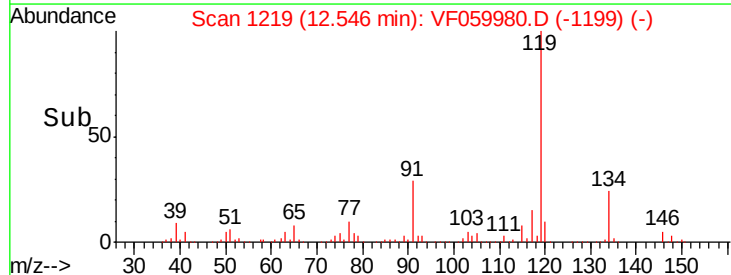
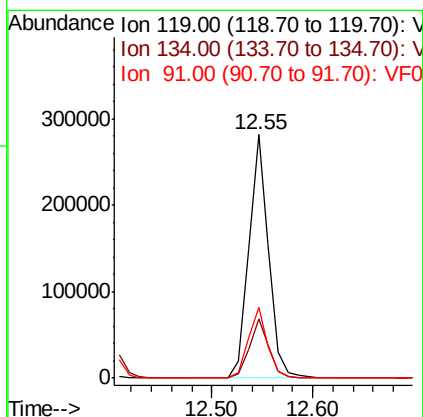
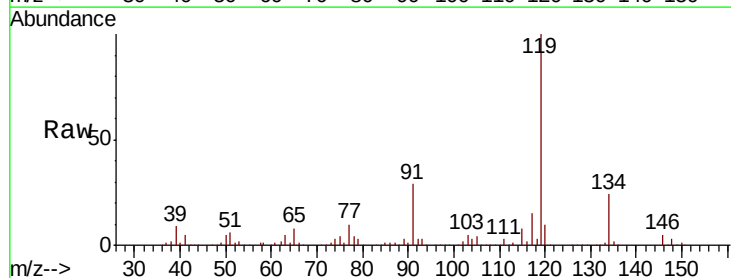
Manual Integrations
 APPROVED

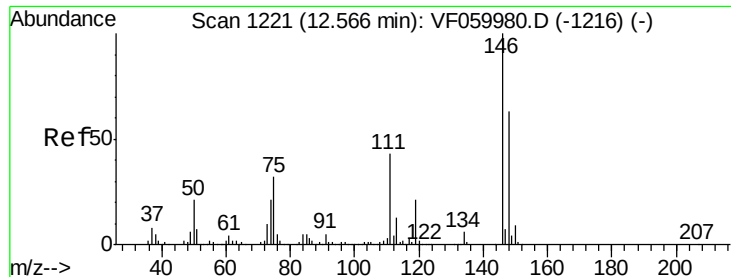
apatel
 8/20/2018 11:48:18 AM



#86
 p-Isopropyltoluene
 Concen: 47.21 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.1	36.3
91	28.9	14.4	43.4





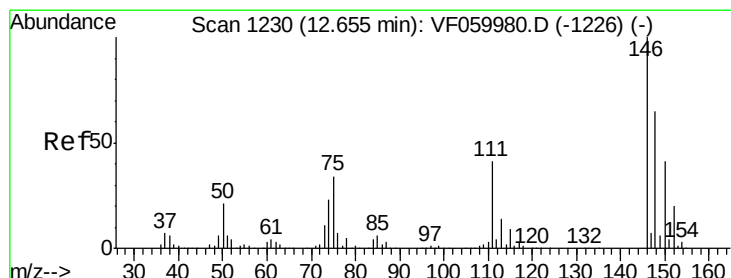
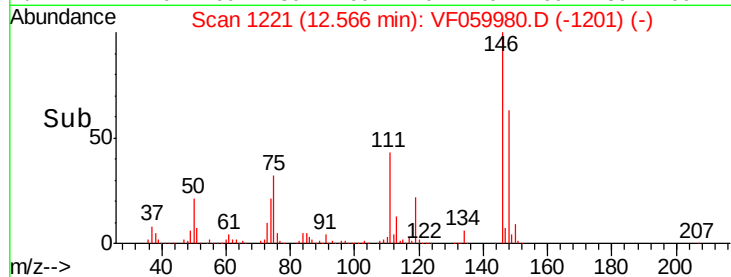
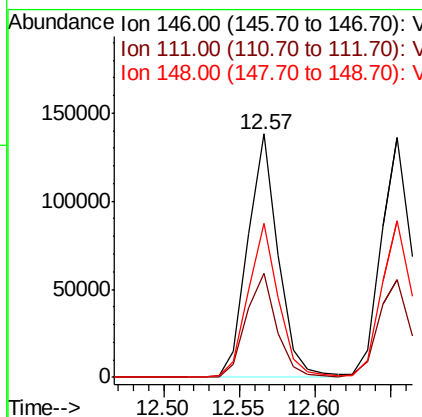
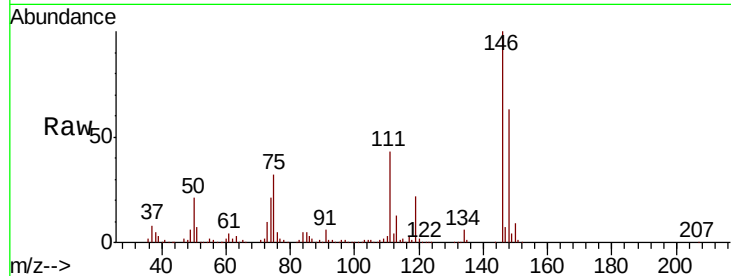
#87
 1,3-Dichlorobenzene
 Concen: 46.55 ug/l
 RT: 12.57 min Scan# 1221
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.3	63.7
148	63.3	31.6	95.0

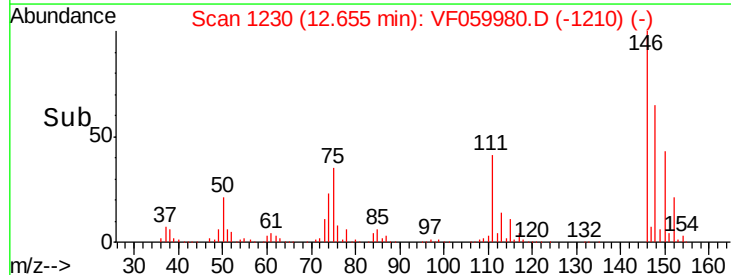
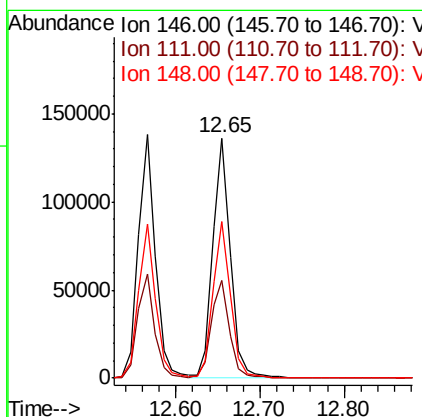
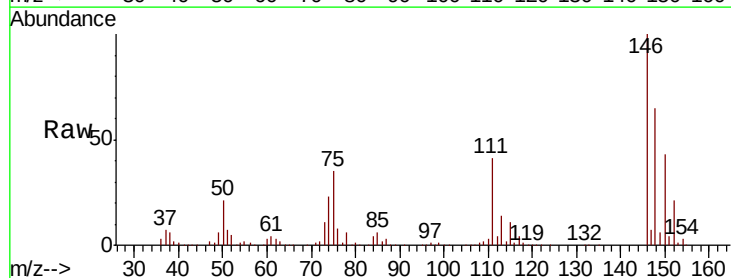
Manual Integrations
 APPROVED

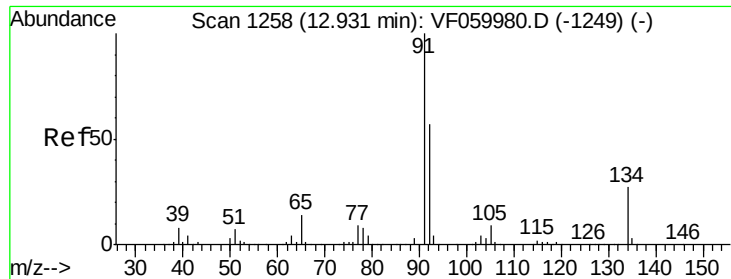
apatel
 8/20/2018 11:48:18 AM



#88
 1,4-Dichlorobenzene
 Concen: 48.25 ug/l
 RT: 12.65 min Scan# 1230
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	65.2	32.6	97.8





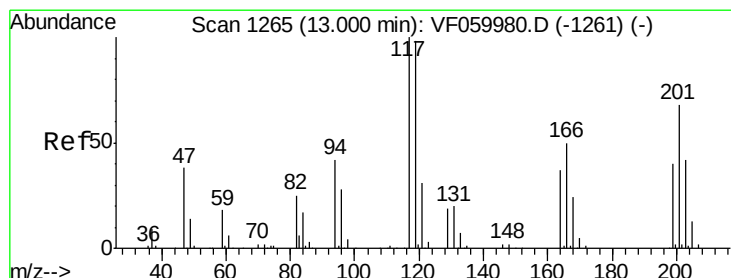
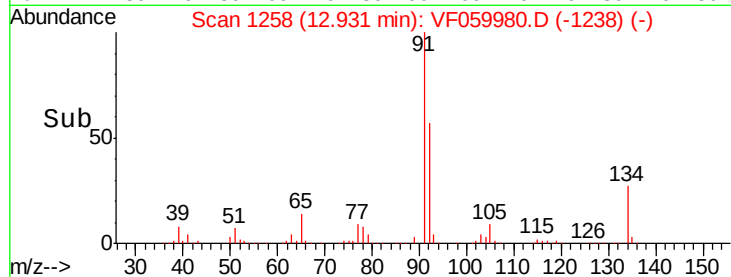
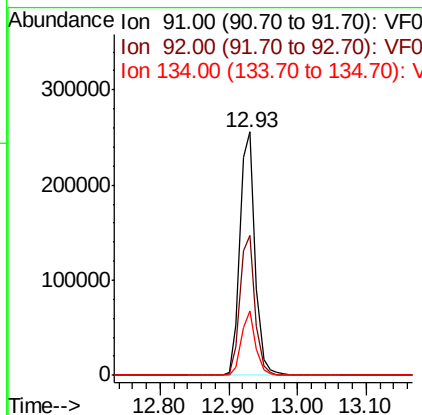
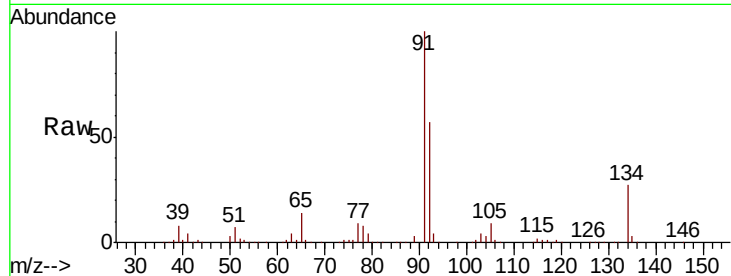
#89
n-Butylbenzene
Concen: 49.54 ug/l
RT: 12.93 min Scan# 1258
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	57.5	28.7	86.3	
134	26.6	13.3	39.9	

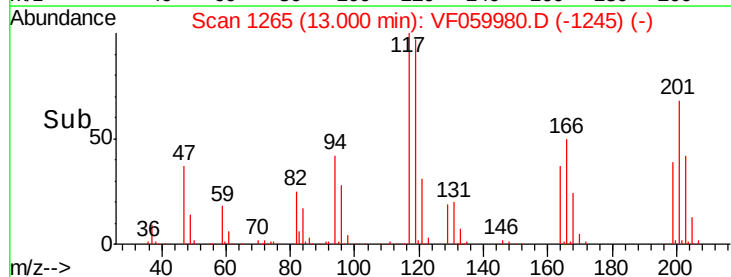
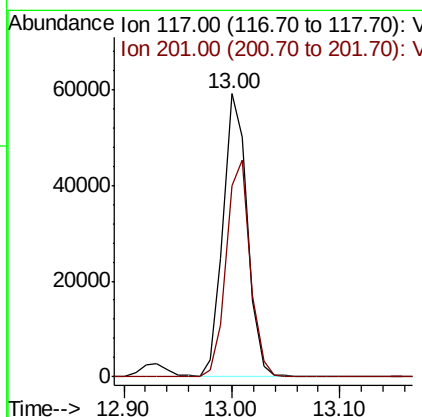
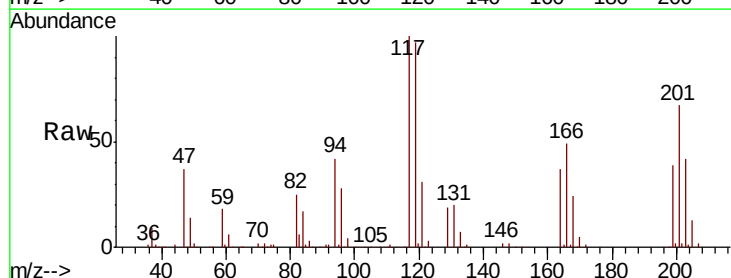
Manual Integrations
APPROVED

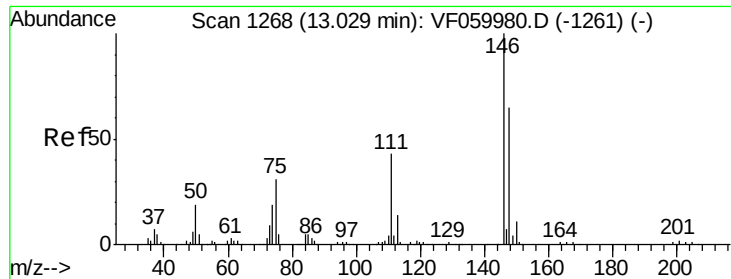
apatel
8/20/2018 11:48:18 AM



#90
Hexachloroethane
Concen: 50.71 ug/l
RT: 13.00 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	69.0	34.5	103.5	





#91

1,2-Dichlorobenzene

Concen: 48.57 ug/l

RT: 13.03 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Instrument :

MSVOA_F

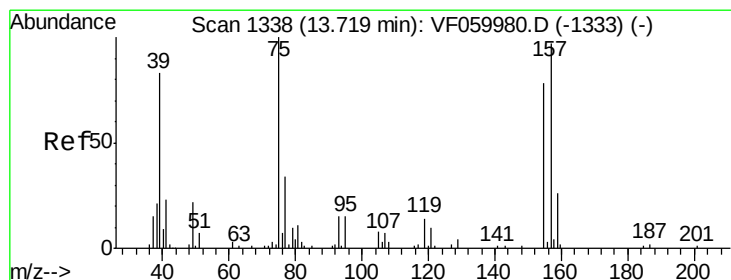
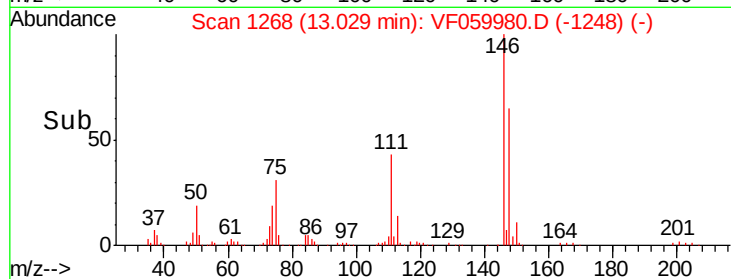
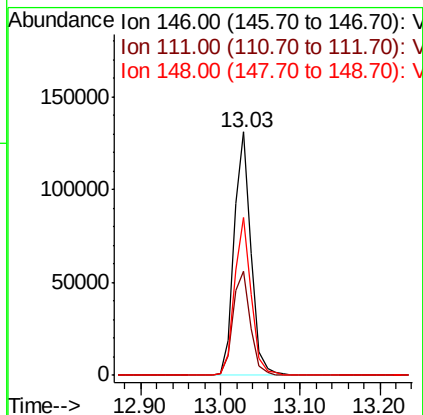
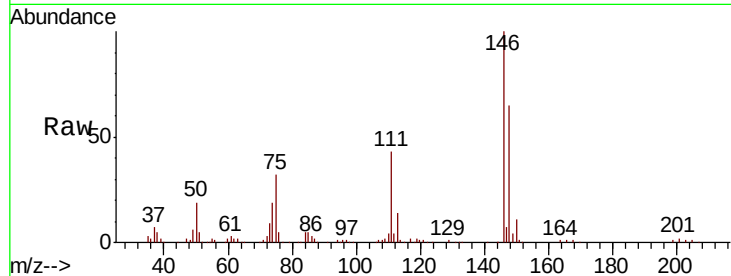
ClientSampleId :

VSTDICCC050

Tot Ion:	146	Resp:	195587
Ion Ratio	Lower	Upper	
146	100		
111	42.9	21.4	64.3
148	64.9	32.5	97.4

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.71 ug/l

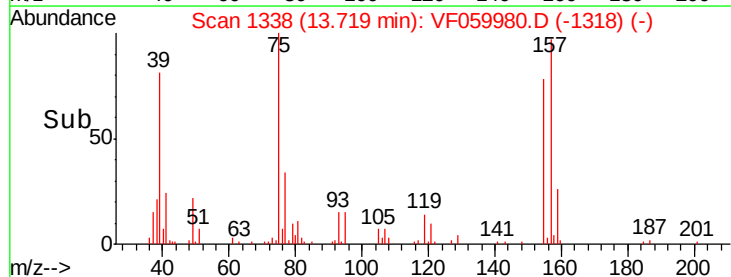
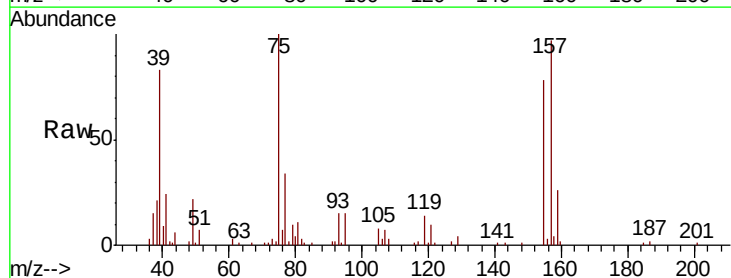
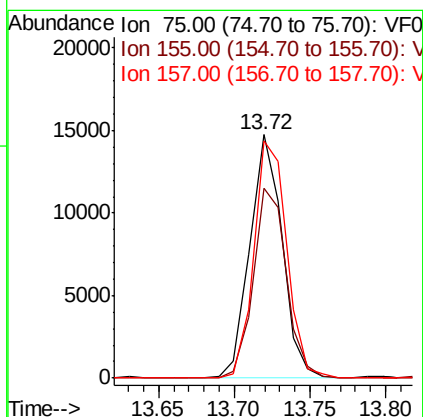
RT: 13.72 min Scan# 1338

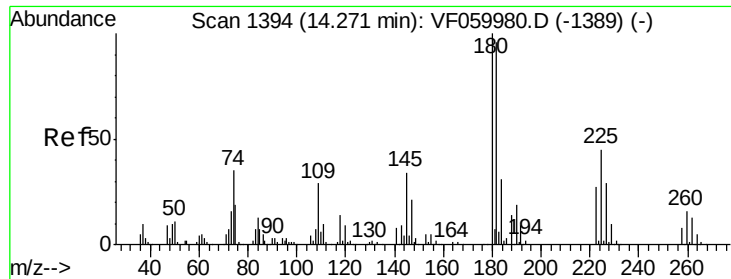
Delta R.T. 0.00 min

Lab File: VF059980.D

Acq: 17 Aug 2018 18:32

Tgt Ion:	75	Resp:	21978
Ion Ratio	Lower	Upper	
75	100		
155	77.8	38.9	116.7
157	101.7	50.8	152.5





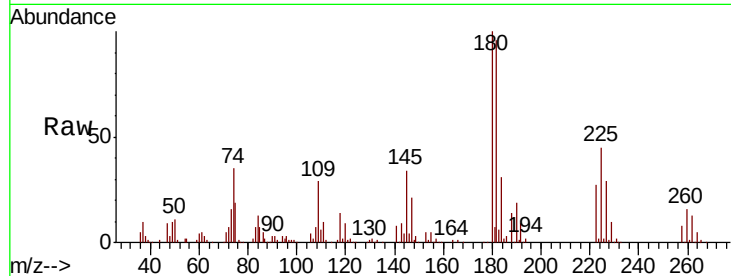
#93
 1,2,4-Trichlorobenzene
 Concen: 49.43 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.7	47.9	143.6	
145	34.3	17.2	51.5	

Manual Integrations
 APPROVED

apatel
 8/20/2018 11:48:18 AM

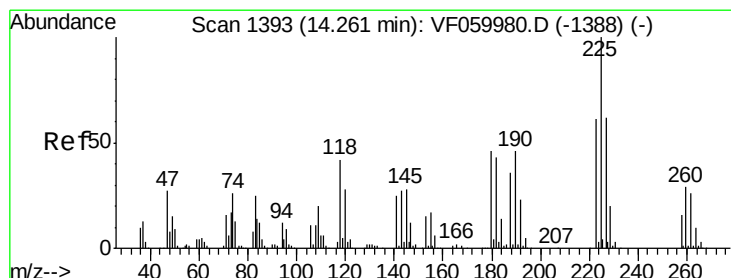
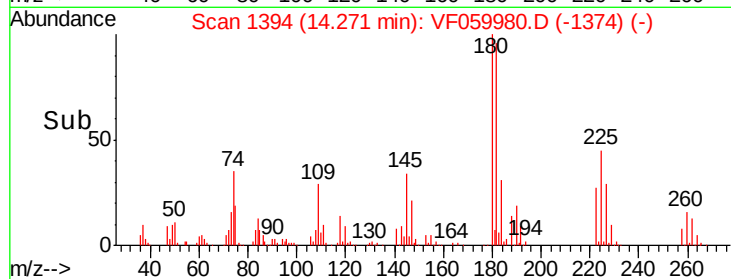
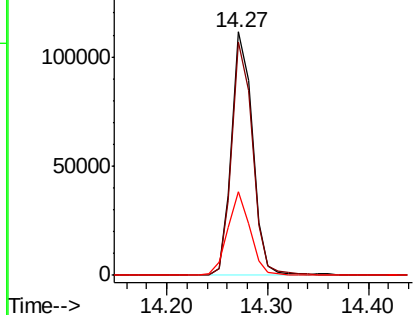


Abundance

Ion 180.00 (179.70 to 180.70): V

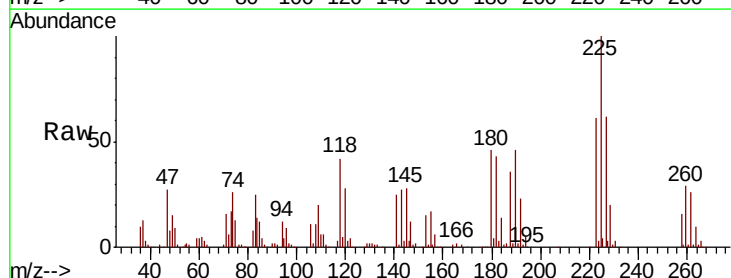
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 50.51 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VF059980.D
 Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	58.3	29.1	87.4	
227	59.7	29.8	89.5	

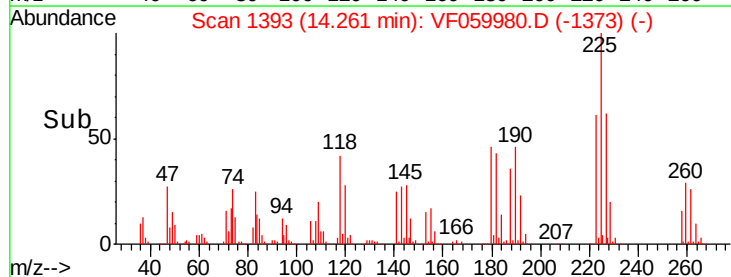
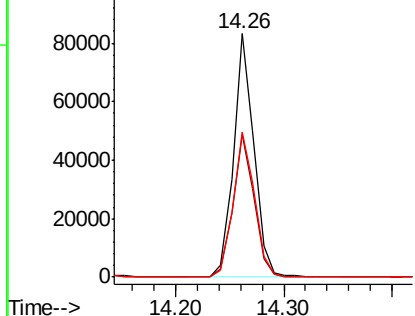


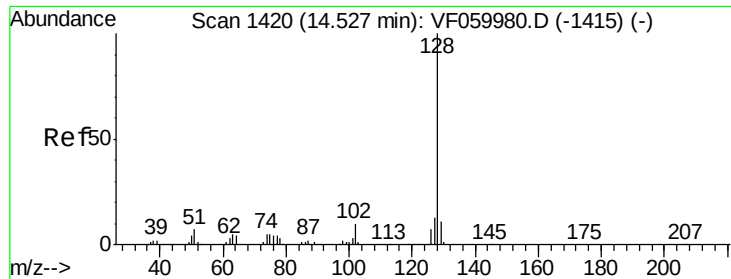
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





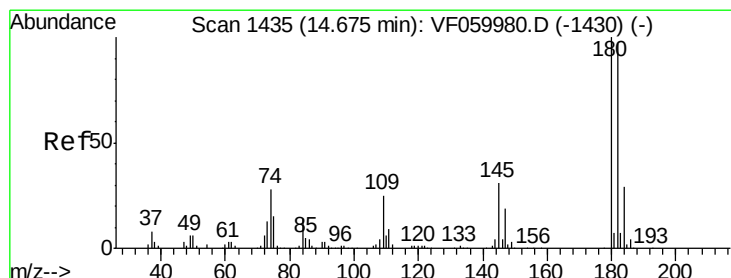
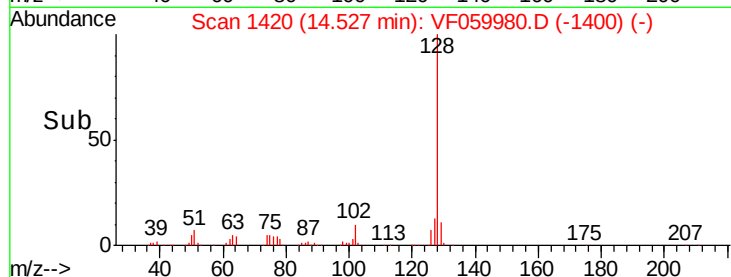
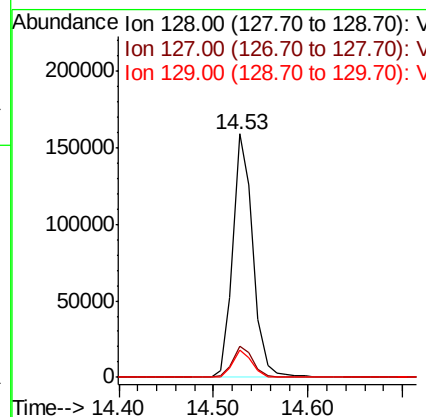
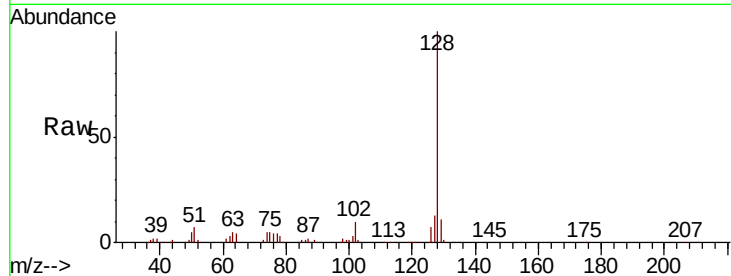
#95
Naphthalene
Concen: 49.19 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.2	9.0	13.4

Manual Integrations
APPROVED

apatel
8/20/2018 11:48:18 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.63 ug/l
RT: 14.68 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VF059980.D
Acq: 17 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.5	145.5
145	31.4	15.7	47.1

