

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081718\
 Data File : VF059979.D
 Acq On : 17 Aug 2018 18:04
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 8/20/2018 11:47:47 AM

Quant Time: Aug 17 23:58:03 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	132690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	186047	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	191057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	133558	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	52930	20.48	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	40.96%	
35) Dibromofluoromethane	4.30	113	37766	19.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.90%	
50) Toluene-d8	7.72	98	82996	19.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.54%	
62) 4-Bromofluorobenzene	11.52	95	49673	19.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.58%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	46560	20.72	ug/l	98
3) Chloromethane	1.08	50	23785	20.55	ug/l #	85
4) Vinyl Chloride	1.13	62	28642	21.57	ug/l	89
5) Bromomethane	1.31	94	25014	19.25	ug/l	89
6) Chloroethane	1.39	64	13951	20.10	ug/l	96
7) Trichlorofluoromethane	1.47	101	74680	20.80	ug/l	94
8) Diethyl Ether	1.71	74	10766	18.76	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.86	101	37622	20.88	ug/l	96
10) Methyl Iodide	1.93	142	46717	20.34	ug/l	98
11) Tert butyl alcohol	2.69	59	16059	100.88	ug/l	99
12) 1,1-Dichloroethene	1.83	96	26016	20.85	ug/l	92
13) Acrolein	2.09	56	5846	69.52	ug/l	92
14) Allyl chloride	2.19	41	42389	20.01	ug/l	92
15) Acrylonitrile	3.08	53	27743	104.90	ug/l	89
16) Acetone	2.35	43	80500	96.85	ug/l	97
17) Carbon Disulfide	1.84	76	84925	21.37	ug/l	97
18) Methyl Acetate	2.46	43	33179	20.10	ug/l	98
19) Methyl tert-butyl Ether	2.54	73	85403	20.26	ug/l	94
20) Methylene Chloride	2.28	84	29074	16.59	ug/l	95
21) trans-1,2-Dichloroethene	2.42	96	27872	20.95	ug/l	98
22) Diisopropyl ether	2.93	45	92930	20.32	ug/l #	94
23) Vinyl Acetate	3.33	43	181002	96.61	ug/l #	96
24) 1,1-Dichloroethane	3.01	63	63649	21.15	ug/l	99
25) 2-Butanone	4.52	43	65808	101.21	ug/l	97
26) 2,2-Dichloropropane	3.77	77	54133	20.61	ug/l	99
27) cis-1,2-Dichloroethene	3.64	96	25069	20.66	ug/l	93
28) Bromochloromethane	3.90	49	18399	21.43	ug/l	97
29) Tetrahydrofuran	4.26	42	22259	95.85	ug/l	98
30) Chloroform	4.04	83	69634	20.30	ug/l	96
31) Cyclohexane	3.87	56	29738	21.99	ug/l	91
32) 1,1,1-Trichloroethane	4.28	97	70553	21.11	ug/l	97
36) 1,1-Dichloropropene	4.47	75	44026	20.97	ug/l	95
37) Ethyl Acetate	4.29	43	24722	19.97	ug/l #	99
38) Carbon Tetrachloride	4.17	117	66349	22.00	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081718\
 Data File : VF059979.D
 Acq On : 17 Aug 2018 18:04
 Operator : VA/AP
 Sample : VSTDICC020
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDICC020

Manual Integrations
 APPROVED

apatel
 8/20/2018 11:47:47 AM

Quant Time: Aug 17 23:58:03 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	5.63	83	32993	20.75	ug/l	96
40) Benzene	4.81	78	71417	19.99	ug/l	96
41) Methacrylonitrile	4.92	41	11315	19.29	ug/l	98
42) 1,2-Dichloroethane	5.12	62	63231	20.44	ug/l	98
43) Isopropyl Acetate	7.12	43	26662	19.76	ug/l #	95
44) Trichloroethene	5.68	130	28241	20.25	ug/l	80
45) 1,2-Dichloropropane	6.41	63	20153	19.78	ug/l	96
46) Dibromomethane	6.26	93	21926	21.22	ug/l #	87
47) Bromodichloromethane	6.56	83	53811	19.72	ug/l	96
48) Methyl methacrylate	6.88	41	19097	18.99	ug/l	96
49) 1,4-Dioxane	6.87	88	3329	413.46	ug/l #	71
51) 4-Methyl-2-Pentanone	8.41	43	126689	100.54	ug/l	98
52) Toluene	7.79	92	57354	21.32	ug/l	99
53) t-1,3-Dichloropropene	8.43	75	47855	20.65	ug/l	98
54) cis-1,3-Dichloropropene	7.47	75	43899	19.66	ug/l	96
55) 1,1,2-Trichloroethane	8.65	97	22466	20.37	ug/l #	91
56) Ethyl methacrylate	8.77	69	25105	19.53	ug/l	94
57) 1,3-Dichloropropane	9.01	76	38675	19.74	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.78	63	12500	118.32	ug/l	100
59) 2-Hexanone	9.63	43	105828	101.08	ug/l	98
60) Dibromochloromethane	8.87	129	40450	20.26	ug/l	99
61) 1,2-Dibromoethane	9.14	107	27812	19.99	ug/l	89
64) Tetrachloroethene	8.31	164	29591	20.63	ug/l	97
65) Chlorobenzene	9.95	112	78213	20.98	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.08	131	33782	19.72	ug/l	91
67) Ethyl Benzene	10.05	91	142262	21.26	ug/l	96
68) m/p-Xylenes	10.27	106	102946	44.20	ug/l	90
69) o-Xylene	10.84	106	50953	21.27	ug/l	92
70) Styrene	10.91	104	83168	21.80	ug/l	97
71) Bromoform	10.90	173	27139	21.04	ug/l	95
73) Isopropylbenzene	11.23	105	175690	22.00	ug/l	97
74) N-amyl acetate	11.47	43	49301	20.87	ug/l	97
75) 1,1,1,2-Tetrachloroethane	11.79	83	32960	20.23	ug/l	98
76) 1,2,3-Trichloropropane	11.89	75	30316	20.82	ug/l	95
77) Bromobenzene	11.61	156	48017	21.31	ug/l	85
78) n-propylbenzene	11.69	91	213888	21.57	ug/l	98
79) 2-Chlorotoluene	11.82	91	126863	20.88	ug/l	95
80) 1,3,5-Trimethylbenzene	11.92	105	158513	21.92	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.96	75	11109m	14.80	ug/l	
82) 4-Chlorotoluene	12.00	91	141332	21.37	ug/l	95
83) tert-Butylbenzene	12.22	119	152344	21.32	ug/l	99
84) 1,2,4-Trimethylbenzene	12.30	105	156813	20.65	ug/l	98
85) sec-Butylbenzene	12.39	105	196372	21.00	ug/l	96
86) p-Isopropyltoluene	12.54	119	175944	21.29	ug/l	99
87) 1,3-Dichlorobenzene	12.56	146	87495	20.54	ug/l	99
88) 1,4-Dichlorobenzene	12.65	146	87562	20.99	ug/l	94
89) n-Butylbenzene	12.93	91	168600	21.10	ug/l	97
90) Hexachloroethane	13.00	117	39874	21.44	ug/l	85
91) 1,2-Dichlorobenzene	13.02	146	83819	20.45	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.71	75	9594	20.89	ug/l	66

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF081718\
Data File : VF059979.D
Acq On : 17 Aug 2018 18:04
Operator : VA/AP
Sample : VSTDICC020
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM

Quant Time: Aug 17 23:58:03 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.28	180	68353	20.55	ug/l	97
94) Hexachlorobutadiene	14.27	225	48233	21.96	ug/l	97
95) Naphthalene	14.53	128	87444	18.08	ug/l	99
96) 1,2,3-Trichlorobenzene	14.68	180	65216	20.30	ug/l	97

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

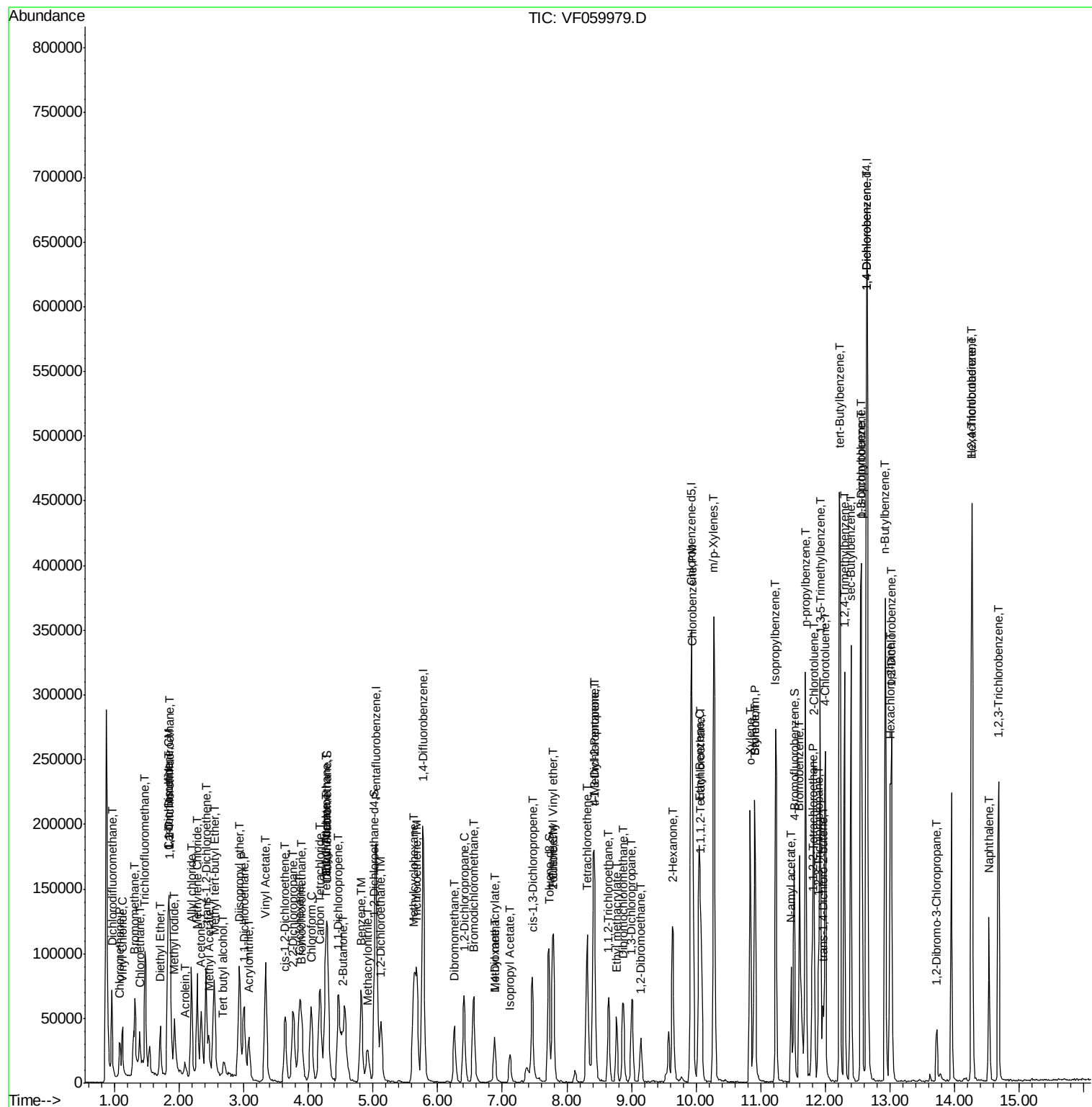
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF081718\
Data File : VF059979.D
Acq On : 17 Aug 2018 18:04
Operator : VA/AP
Sample : VSTDIC020
Misc : 5.00µL/MSVOA F/SOIL
ALS Vial : 33 Sample Multiplier: 1

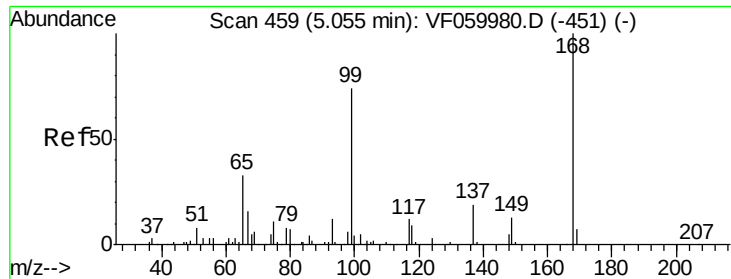
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM

Quant Time: Aug 17 23:58:03 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# 458

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 132690

Ion Ratio Lower Upper

168 100

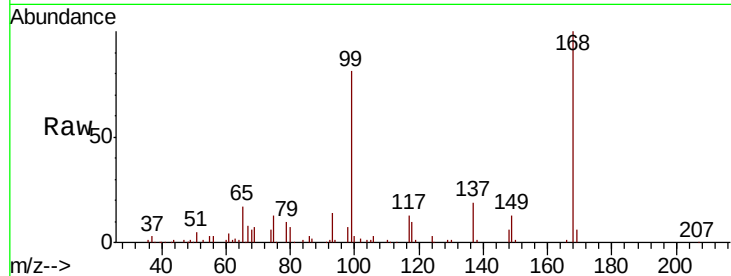
99 81.2 59.0 88.6

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

40000

30000

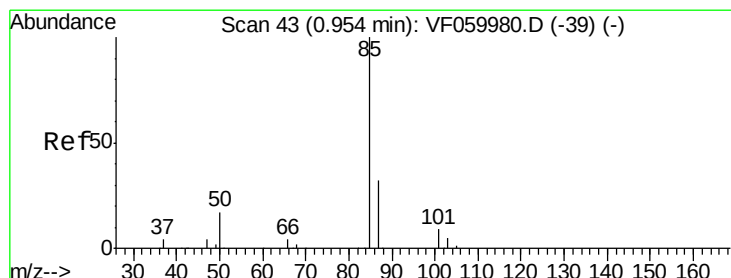
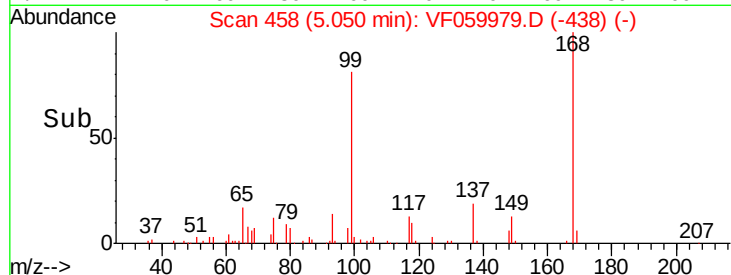
20000

10000

0

4.90 5.00 5.10 5.20 5.30

Time-->



#2

Dichlorodifluoromethane

Concen: 20.72 ug/l

RT: 0.96 min Scan# 43

Delta R.T. 0.01 min

Lab File: VF059979.D

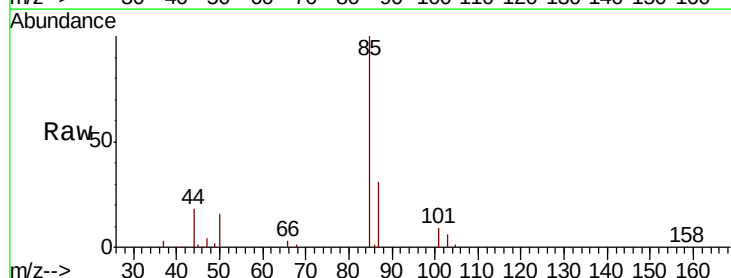
Acq: 17 Aug 2018 18:04

Tgt Ion: 85 Resp: 46560

Ion Ratio Lower Upper

85 100

87 30.8 15.9 47.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

40000

30000

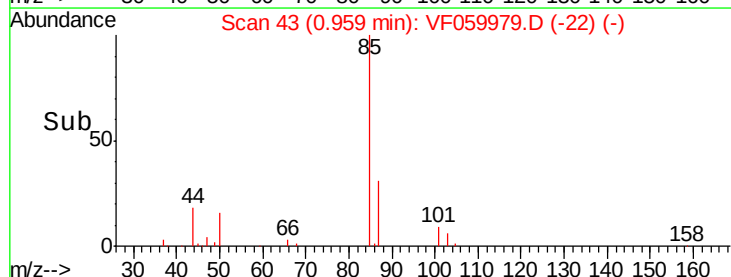
20000

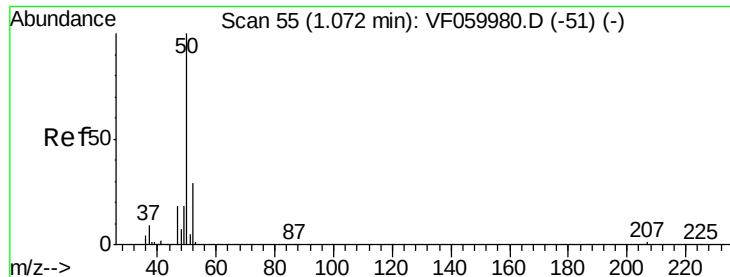
10000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 20.55 ug/l

RT: 1.08 min Scan# 55

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 23785

Ion Ratio Lower Upper

50 100

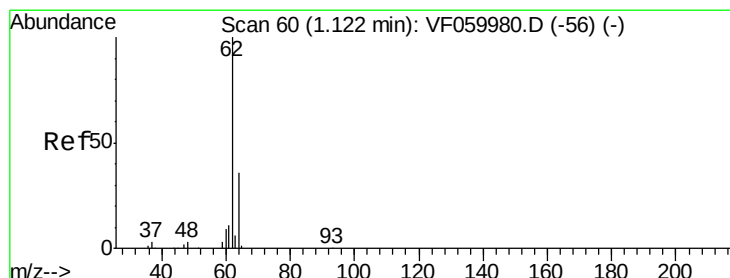
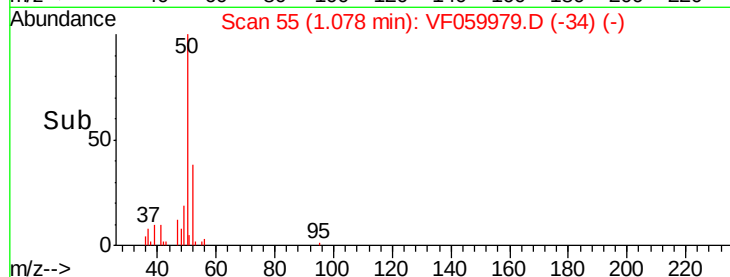
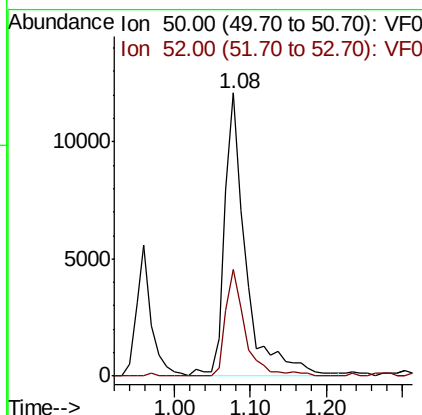
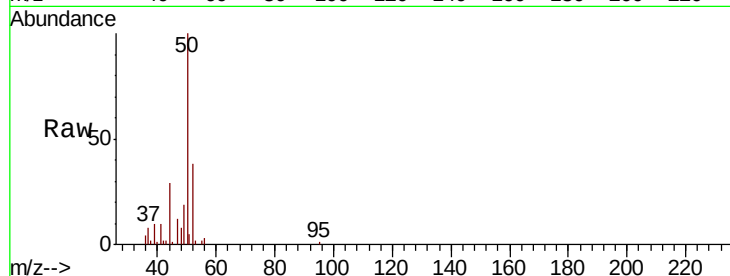
52 37.8 23.6 35.4#

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#4

Vinyl Chloride

Concen: 21.57 ug/l

RT: 1.13 min Scan# 60

Delta R.T. 0.01 min

Lab File: VF059979.D

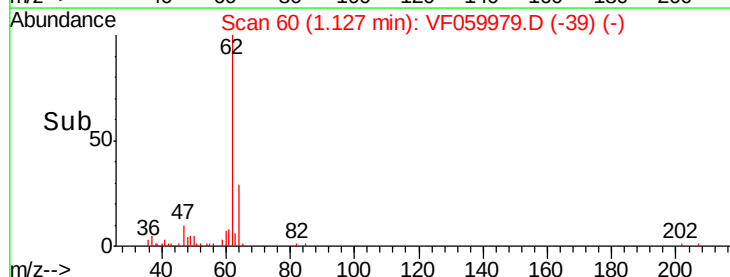
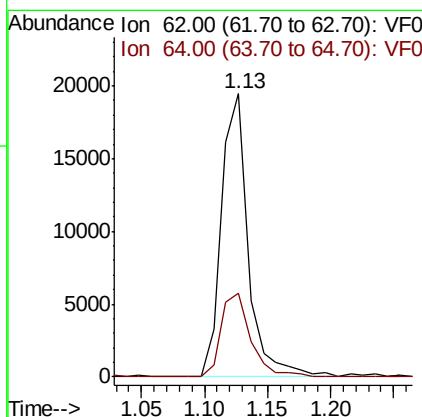
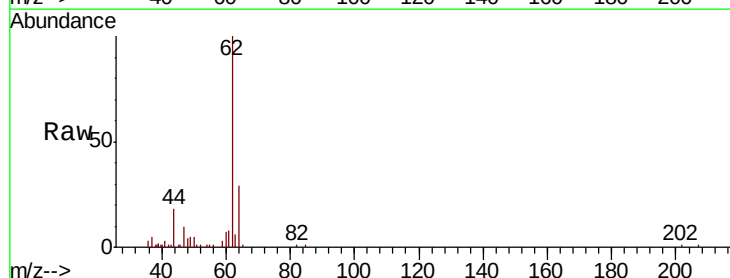
Acq: 17 Aug 2018 18:04

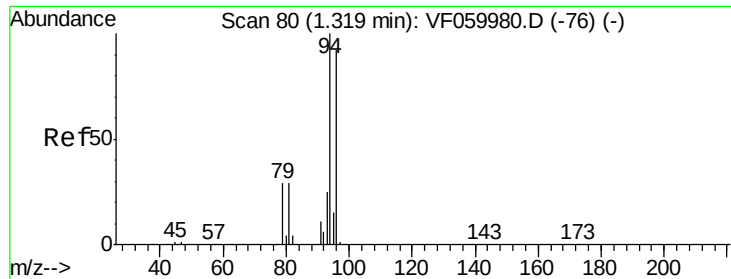
Tgt Ion: 62 Resp: 28642

Ion Ratio Lower Upper

62 100

64 29.4 28.7 43.1





#5

Bromomethane

Concen: 19.25 ug/l

RT: 1.31 min Scan# 79

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 25014

Ion Ratio Lower Upper

94 100

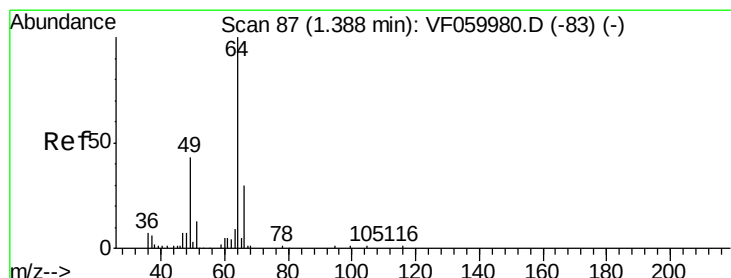
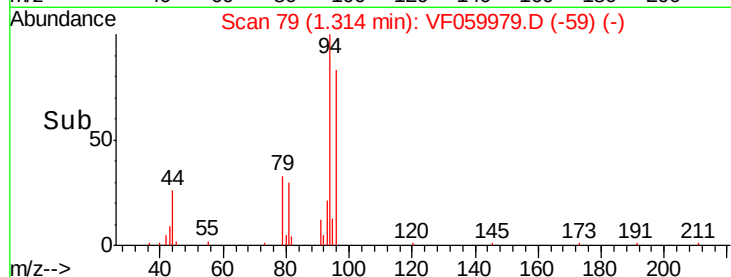
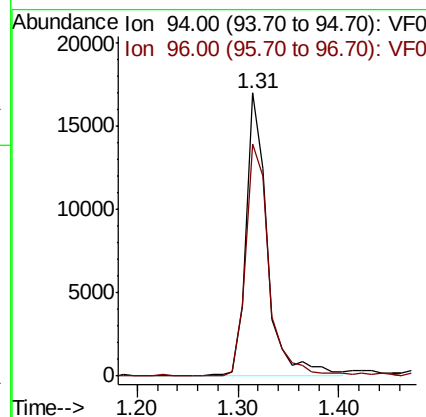
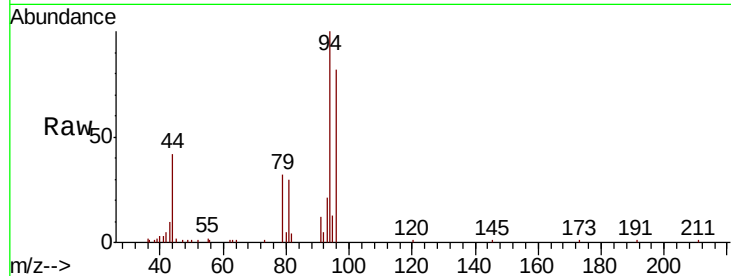
96 81.9 73.9 110.9

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#6

Chloroethane

Concen: 20.10 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.01 min

Lab File: VF059979.D

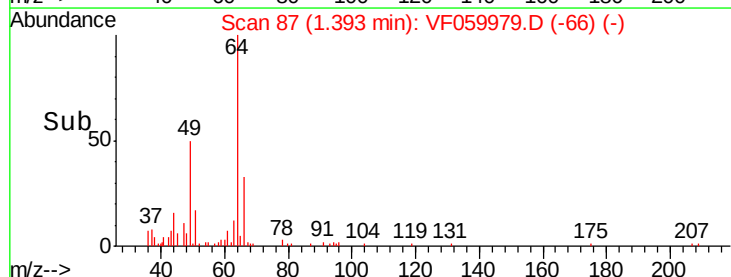
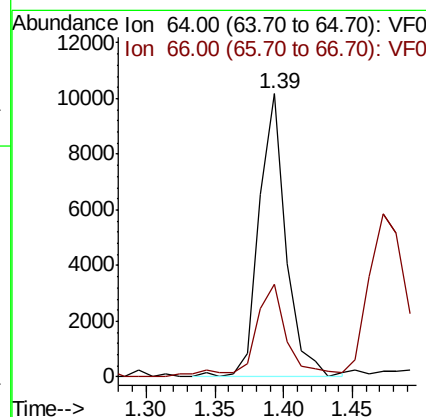
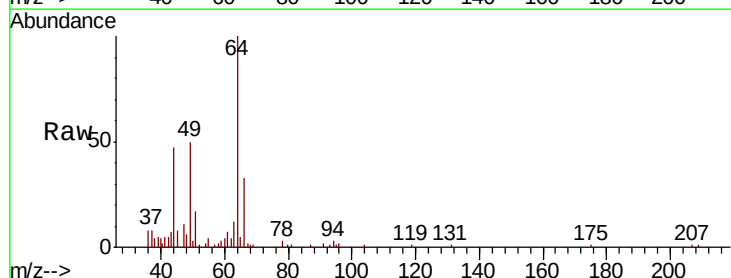
Acq: 17 Aug 2018 18:04

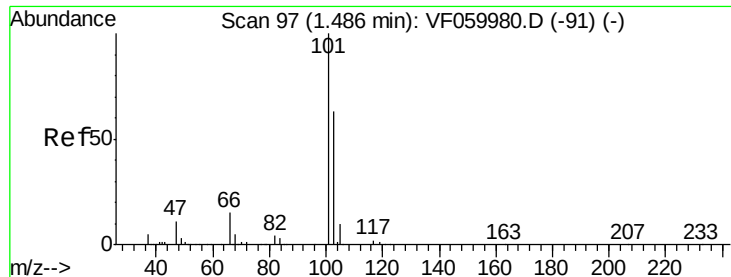
Tgt Ion: 64 Resp: 13951

Ion Ratio Lower Upper

64 100

66 32.9 24.4 36.6





#7

Trichlorofluoromethane

Concen: 20.80 ug/l

RT: 1.47 min Scan# 95

Delta R.T. -0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:101 Resp: 74680

Ion Ratio Lower Upper

101 100

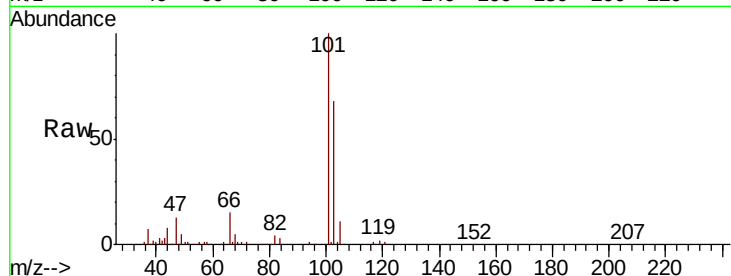
103 68.0 50.8 76.2

Manual Integrations

APPROVED

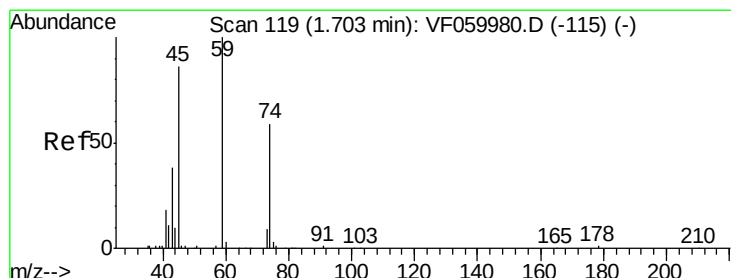
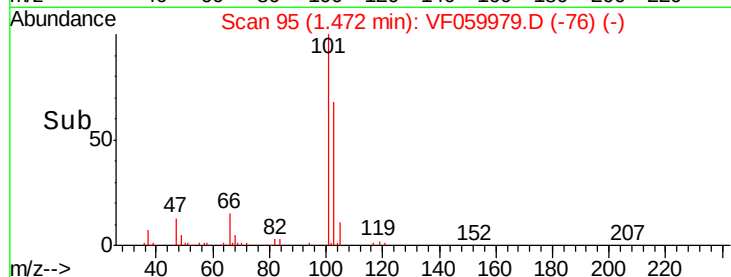
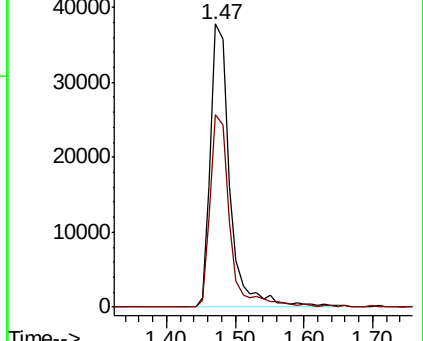
apatel

8/20/2018 11:47:47 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 18.76 ug/l

RT: 1.71 min Scan# 119

Delta R.T. 0.01 min

Lab File: VF059979.D

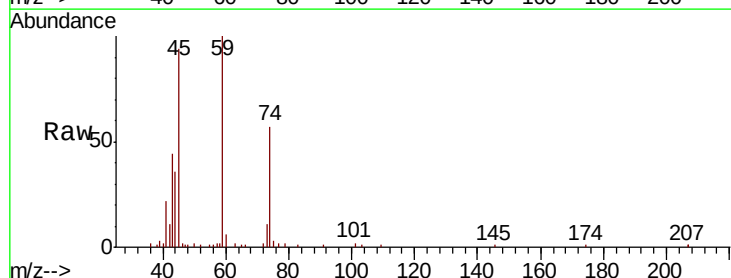
Acq: 17 Aug 2018 18:04

Tgt Ion: 74 Resp: 10766

Ion Ratio Lower Upper

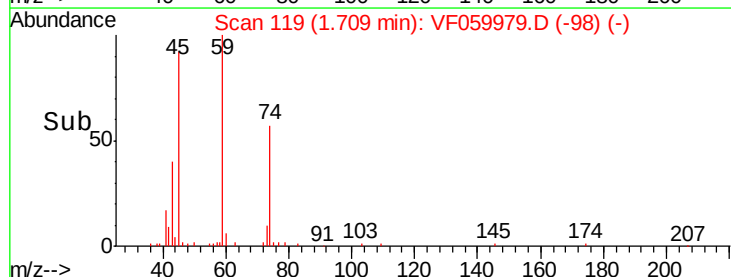
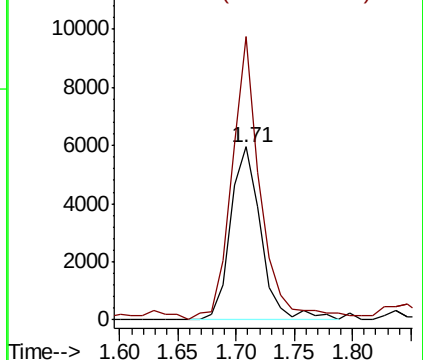
74 100

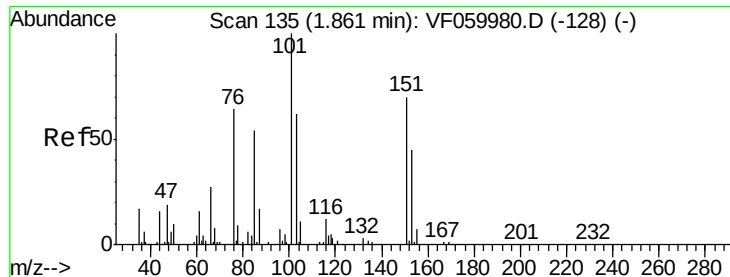
45 163.7 73.5 220.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.88 ug/l

RT: 1.86 min Scan# 134

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

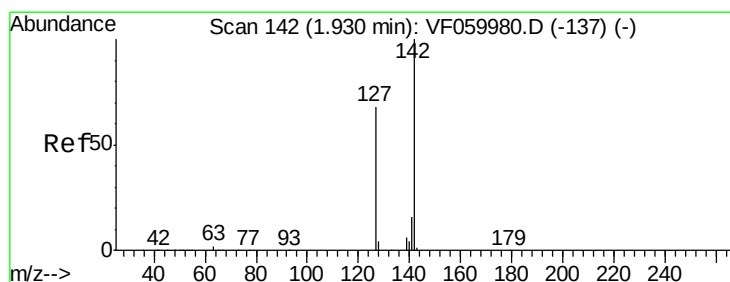
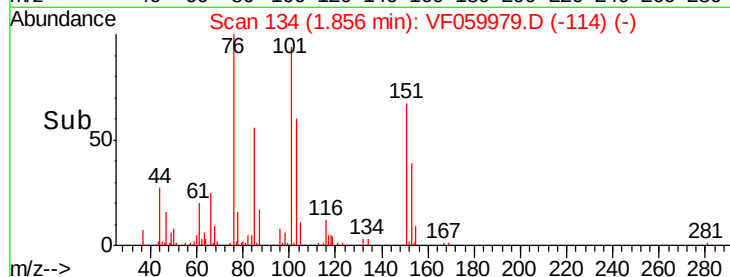
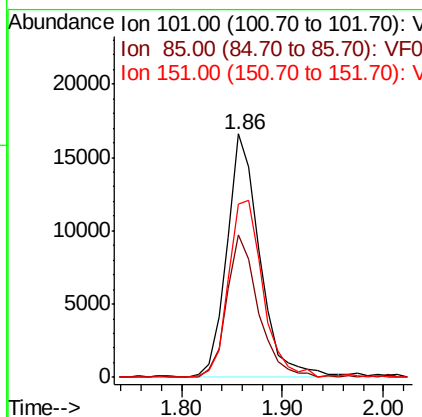
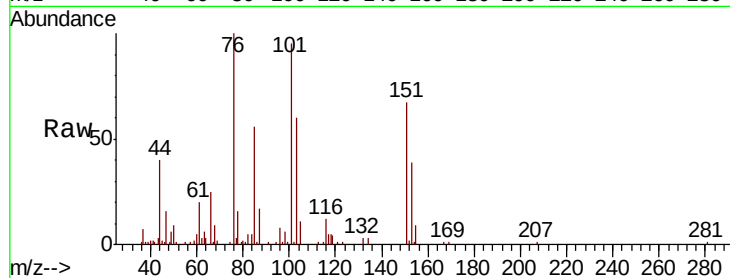
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	37622
Ion Ratio	Lower	Upper	
101	100		
85	58.7	43.0	64.6
151	71.1	56.2	84.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#10

Methyl Iodide

Concen: 20.34 ug/l

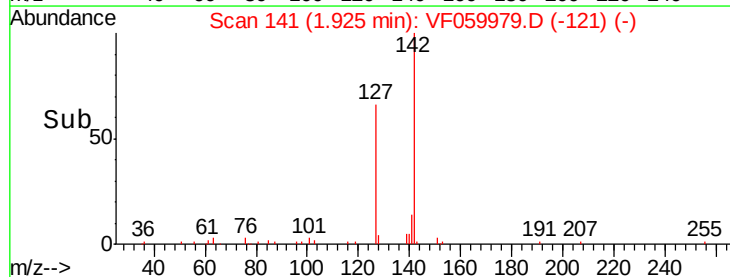
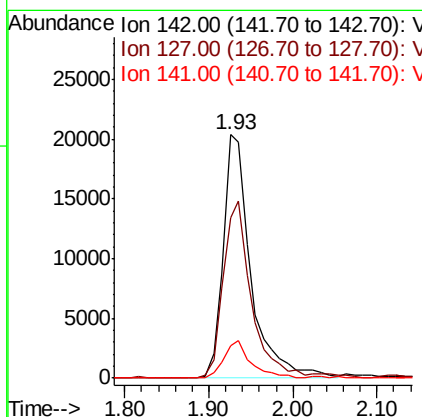
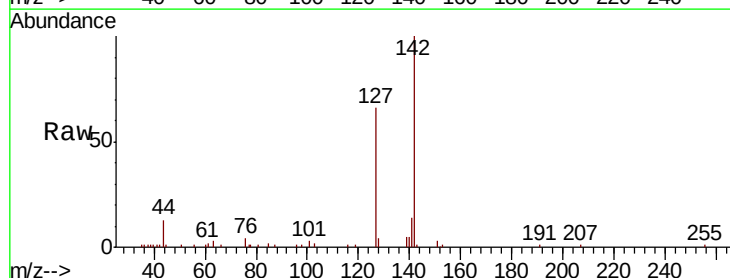
RT: 1.93 min Scan# 141

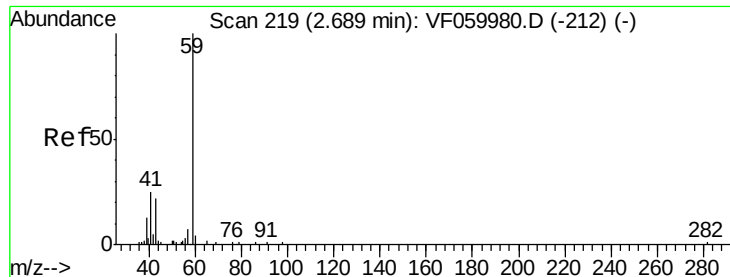
Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	142	Resp:	46717
Ion Ratio	Lower	Upper	
142	100		
127	66.1	54.1	81.1
141	13.5	12.5	18.7





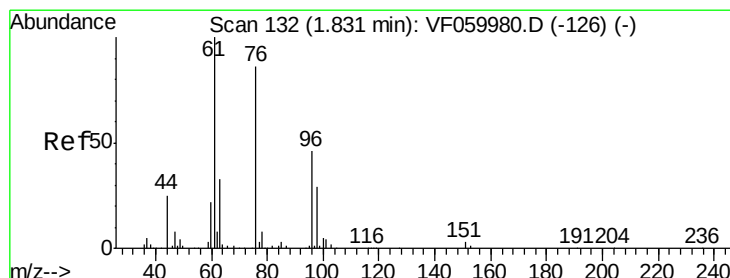
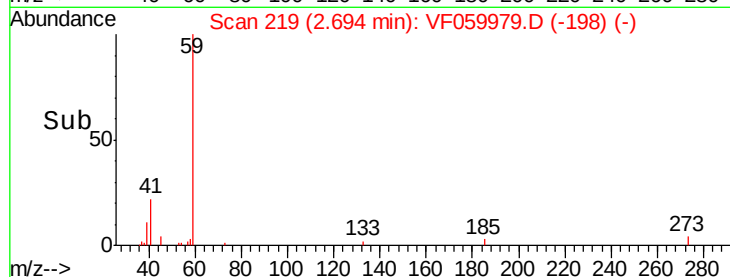
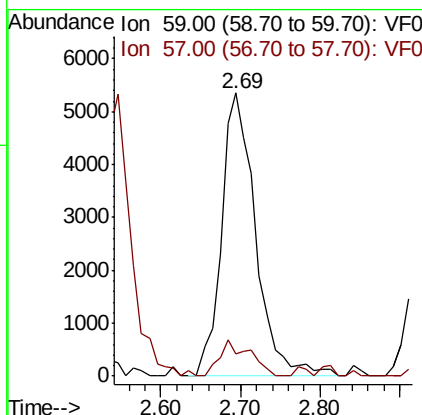
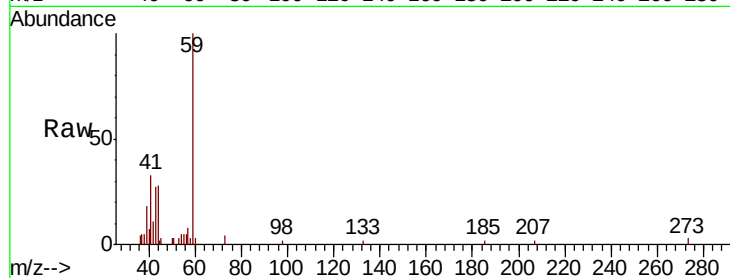
#11
Tert butyl alcohol
Concen: 100.88 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	59	Resp	16059
Ion Ratio	100	Lower	Upper
57	8.0	6.8	10.2

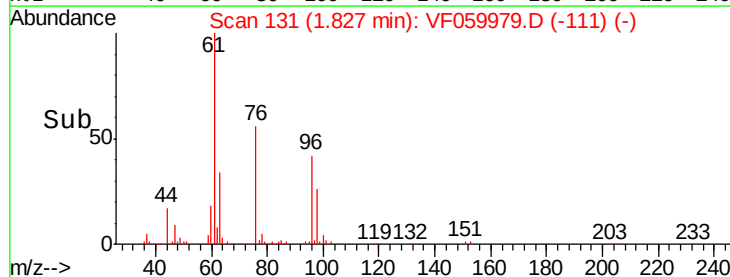
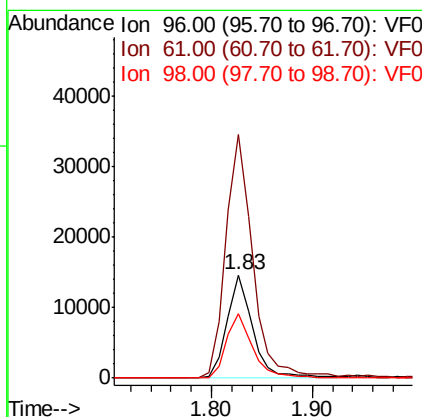
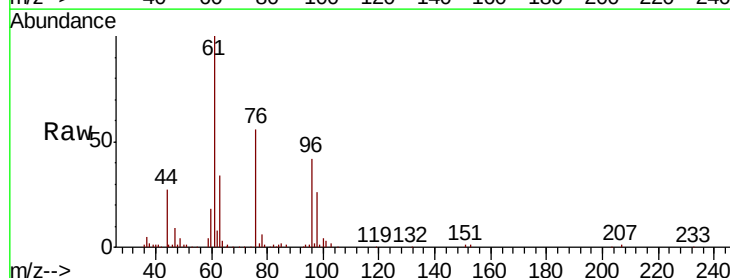
Manual Integrations
APPROVED

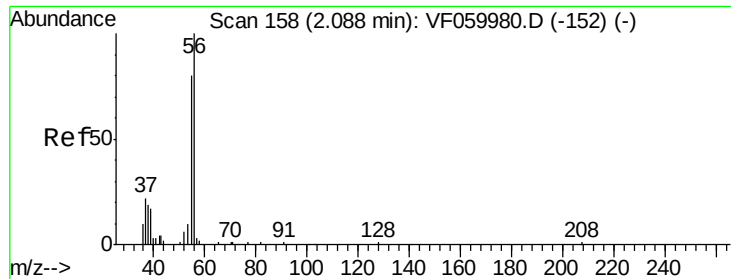
apatel
8/20/2018 11:47:47 AM



#12
1,1-Dichloroethene
Concen: 20.85 ug/l
RT: 1.83 min Scan# 131
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	96	Resp	26016
Ion Ratio	100	Lower	Upper
61	236.5	175.6	263.4
98	62.3	50.6	75.8





#13

Acrolein

Concen: 69.52 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 5846

Ion Ratio Lower Upper

56 100

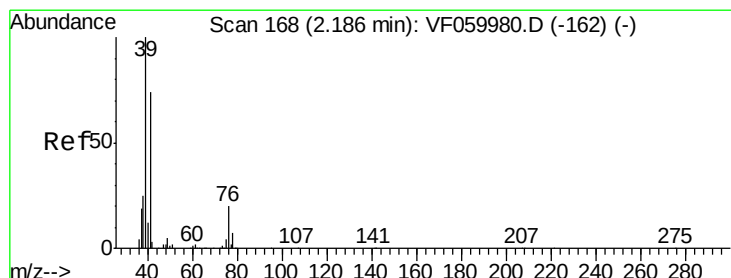
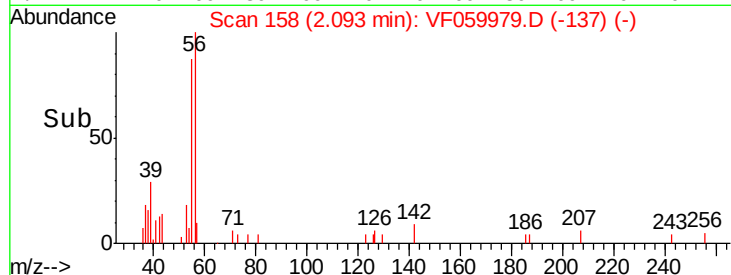
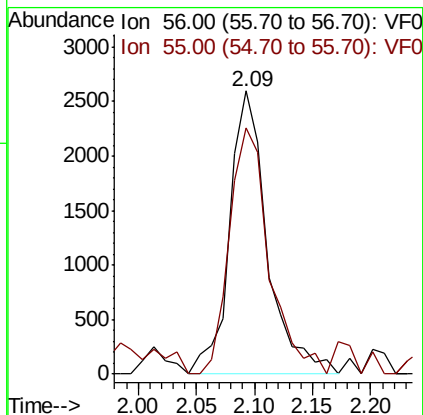
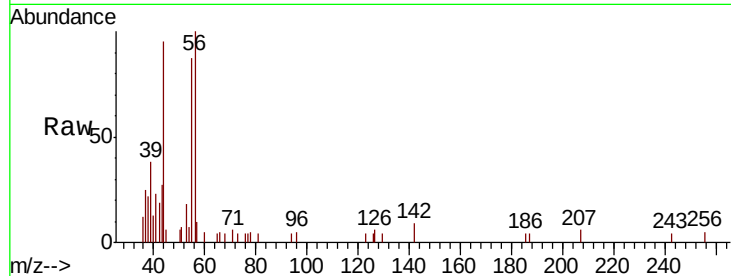
55 87.1 63.8 95.6

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#14

Allyl chloride

Concen: 20.01 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

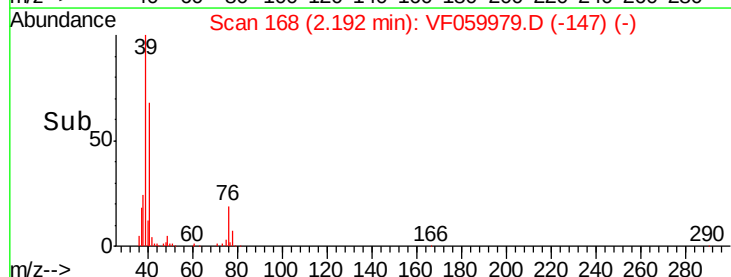
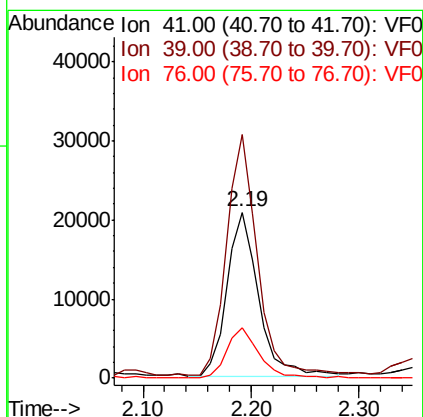
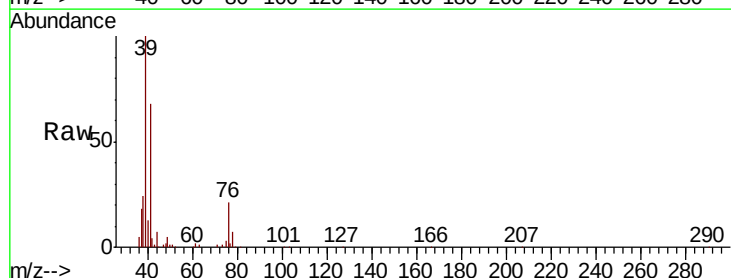
Tgt Ion: 41 Resp: 42389

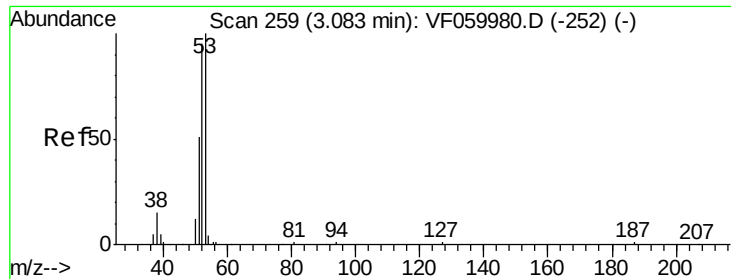
Ion Ratio Lower Upper

41 100

39 146.5 109.3 163.9

76 30.1 21.3 31.9





#15

Acrylonitrile

Concen: 104.90 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

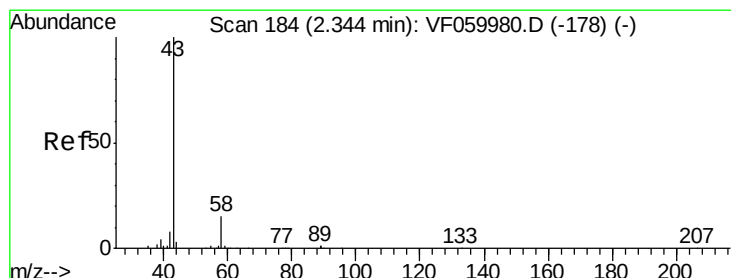
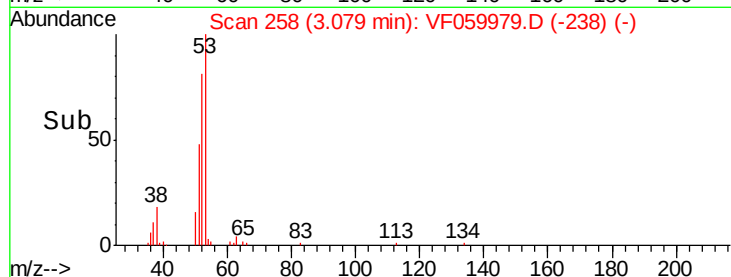
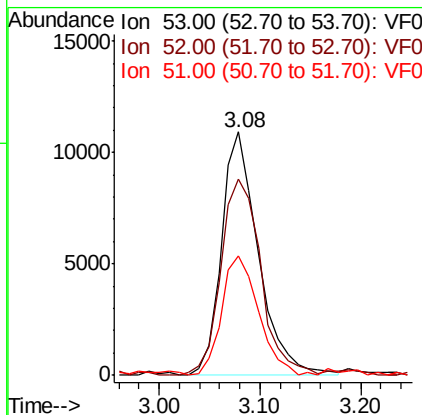
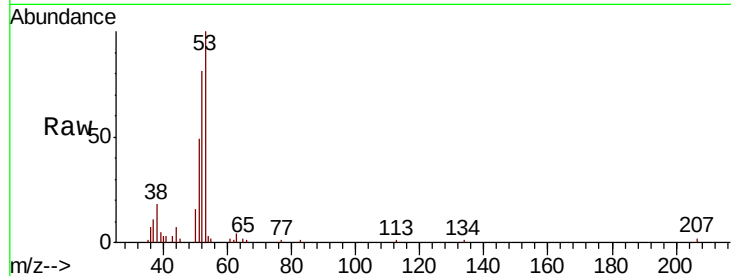
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	27743
Ion	Ratio	Lower	Upper
53	100		
52	80.8	76.0	114.0
51	49.3	41.9	62.9

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#16

Acetone

Concen: 96.85 ug/l

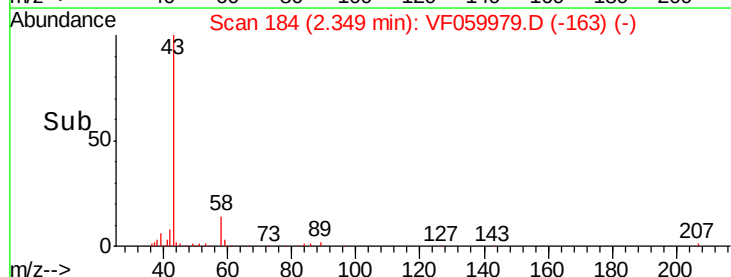
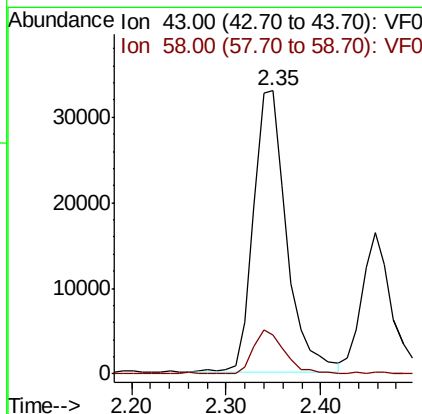
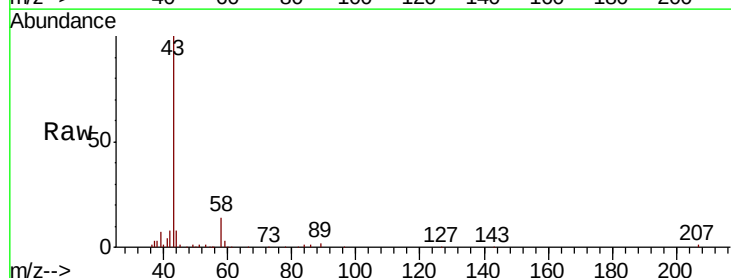
RT: 2.35 min Scan# 184

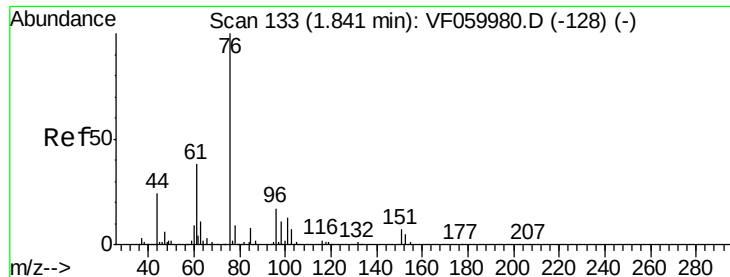
Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	43	Resp:	80500
Ion	Ratio	Lower	Upper
43	100		
58	13.6	11.9	17.9





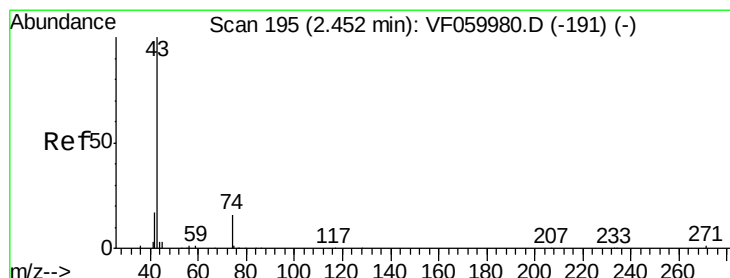
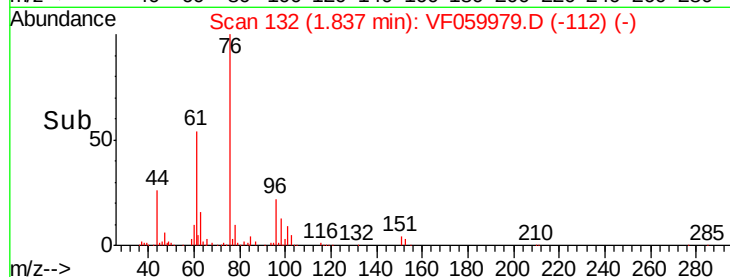
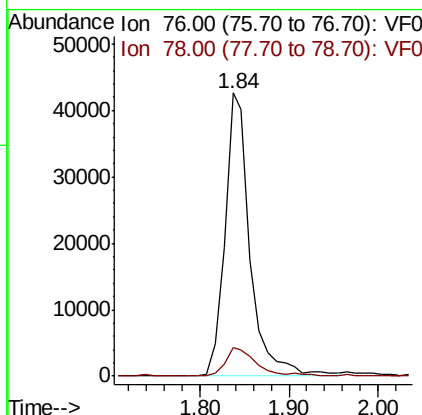
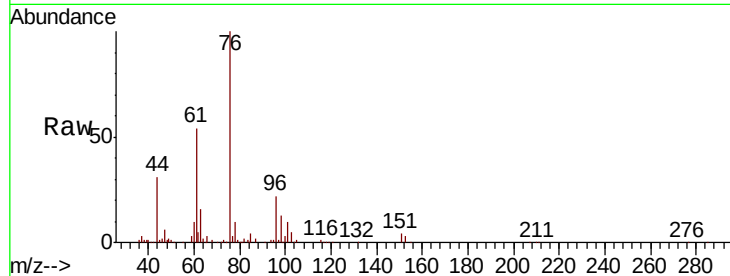
#17
Carbon Disulfide
Concen: 21.37 ug/l
RT: 1.84 min Scan# 132
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8

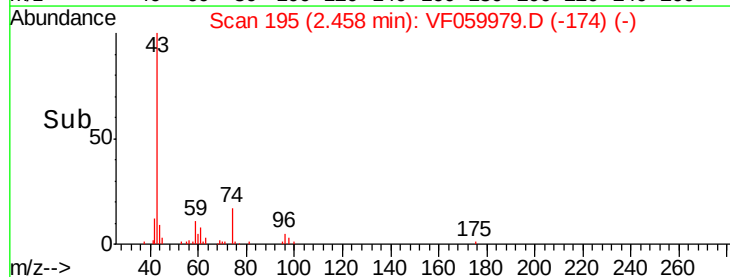
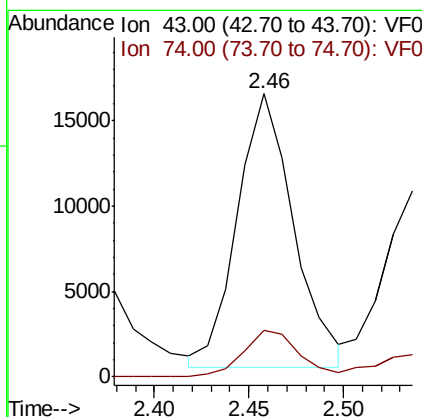
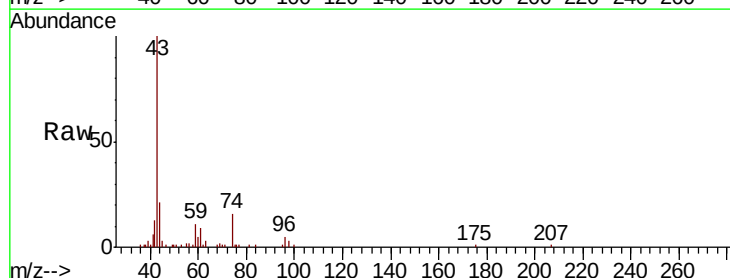
Manual Integrations
APPROVED

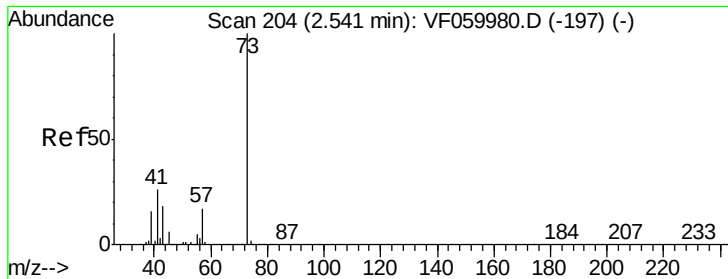
apatel
8/20/2018 11:47:47 AM



#18
Methyl Acetate
Concen: 20.10 ug/l
RT: 2.46 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	16.2	12.3	18.5





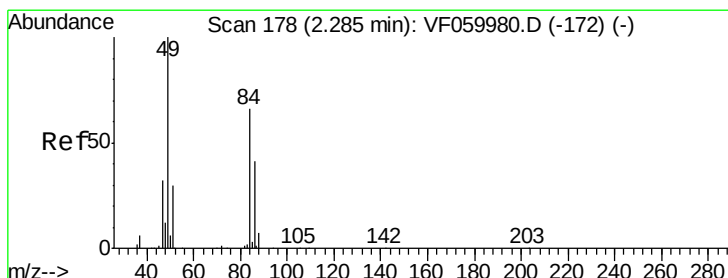
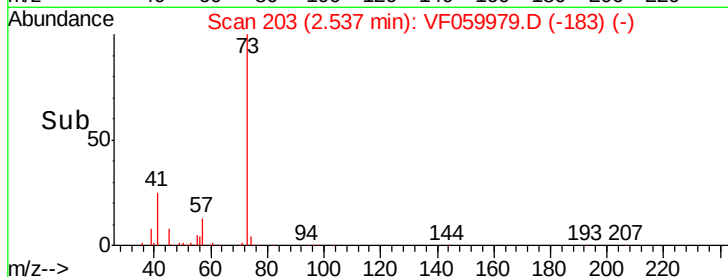
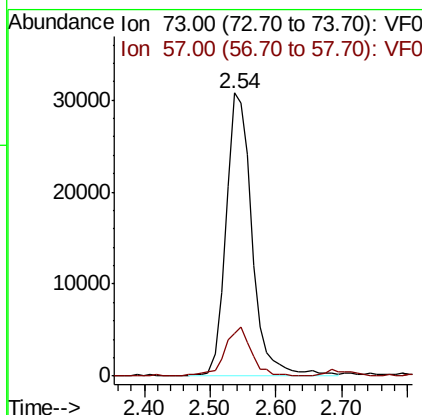
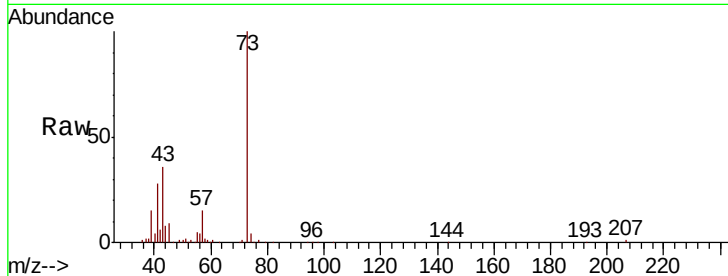
#19
Methyl tert-butyl Ether
Concen: 20.26 ug/l
RT: 2.54 min Scan# 203
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	15.2	14.2	21.2

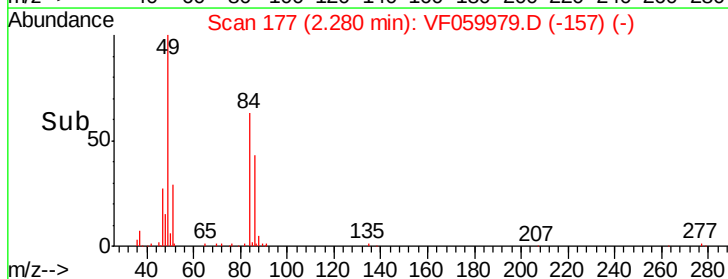
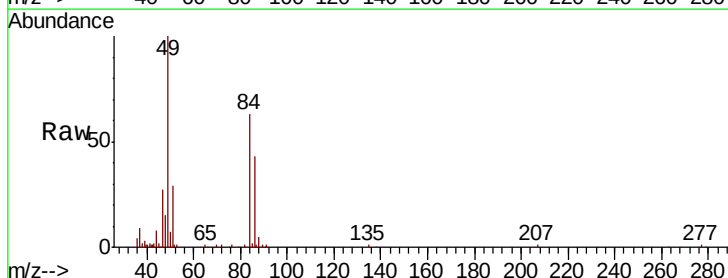
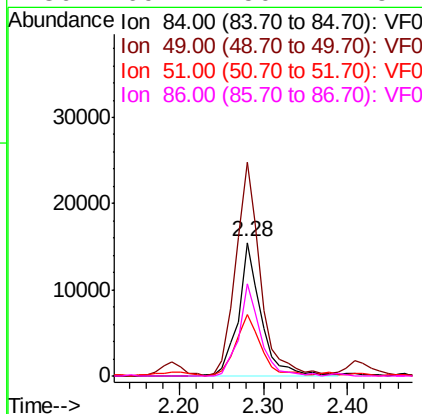
Manual Integrations
APPROVED

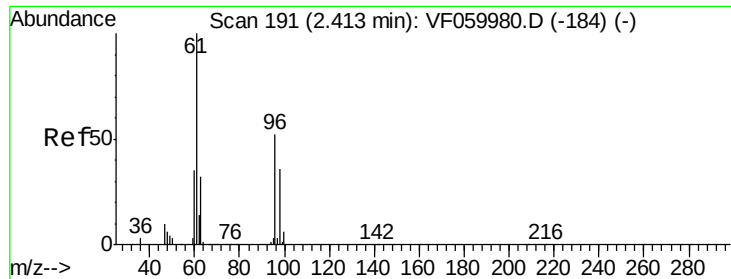
apatel
8/20/2018 11:47:47 AM



#20
Methylene Chloride
Concen: 16.59 ug/l
RT: 2.28 min Scan# 177
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Lower	Upper
84	100		
49	159.7	122.5	183.7
51	45.7	37.1	55.7
86	69.2	50.2	75.2





#21

trans-1,2-Dichloroethene

Concen: 20.95 ug/l

RT: 2.42 min Scan# 191

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

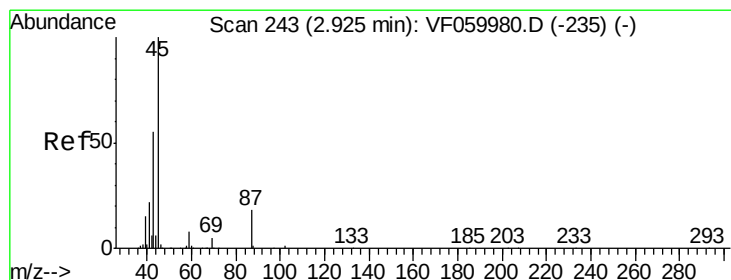
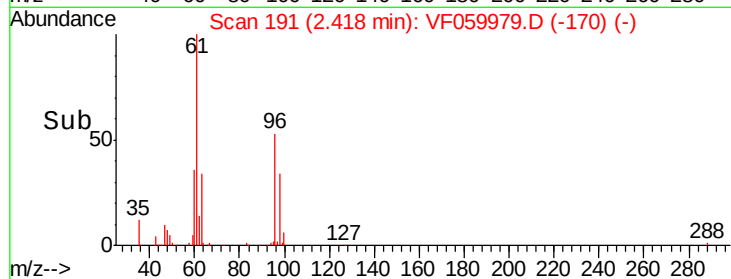
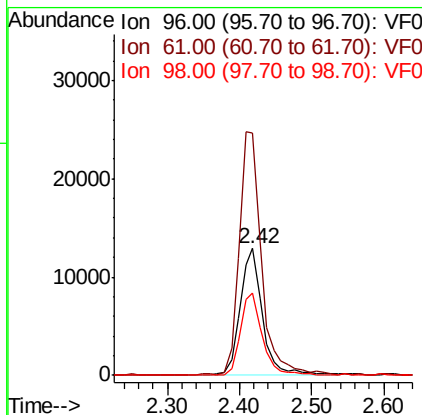
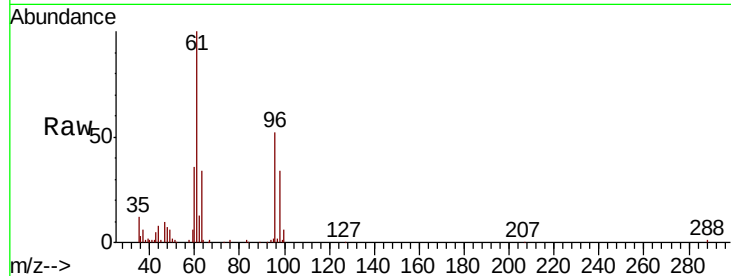
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	27872
Ion	Ratio	Lower	Upper
96	100		
61	191.0	153.0	229.4
98	64.9	55.5	83.3

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#22

Diisopropyl ether

Concen: 20.32 ug/l

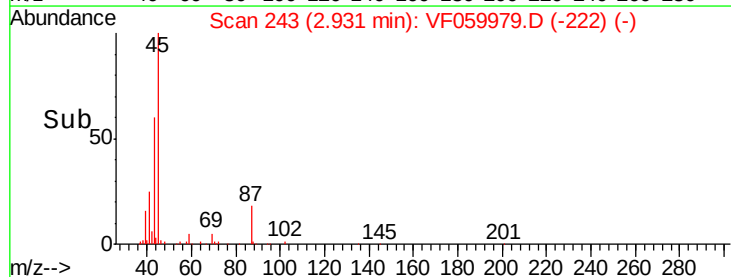
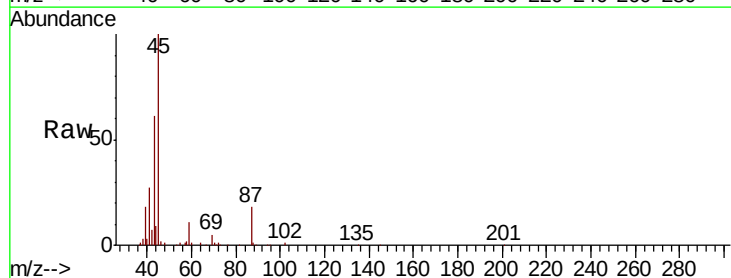
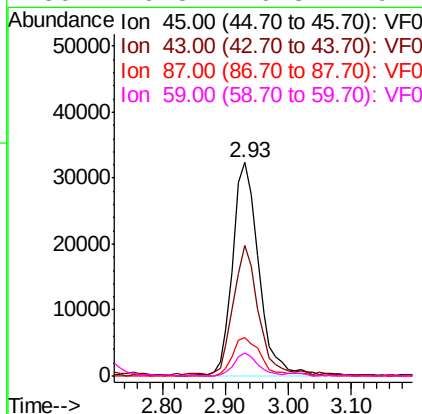
RT: 2.93 min Scan# 243

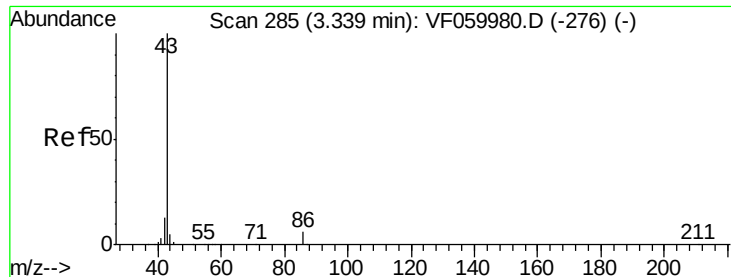
Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	45	Resp:	92930
Ion	Ratio	Lower	Upper
45	100		
43	61.4	44.8	67.2
87	17.9	14.6	21.8
59	10.8	6.8	10.2#





#23

Vinyl Acetate

Concen: 96.61 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 181002

Ion Ratio Lower Upper

43 100

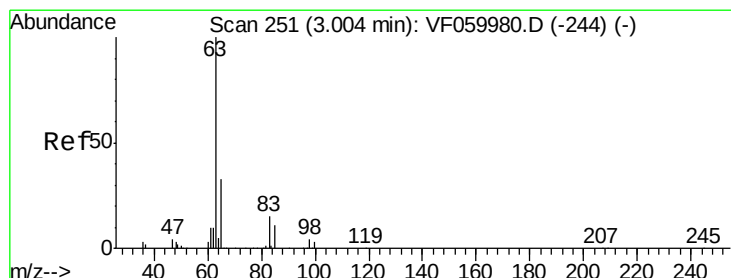
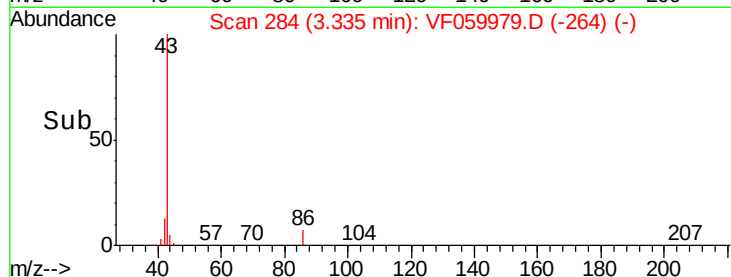
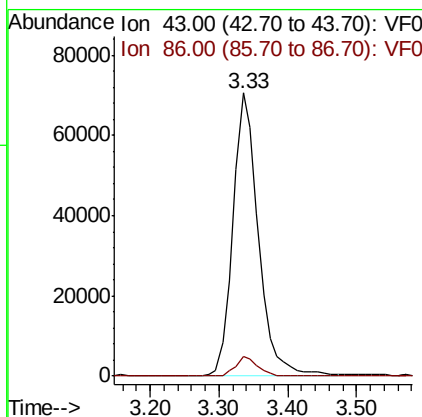
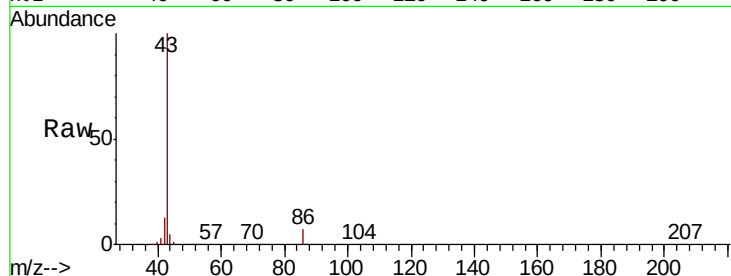
86 6.8 4.4 6.6#

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#24

1,1-Dichloroethane

Concen: 21.15 ug/l

RT: 3.01 min Scan# 251

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

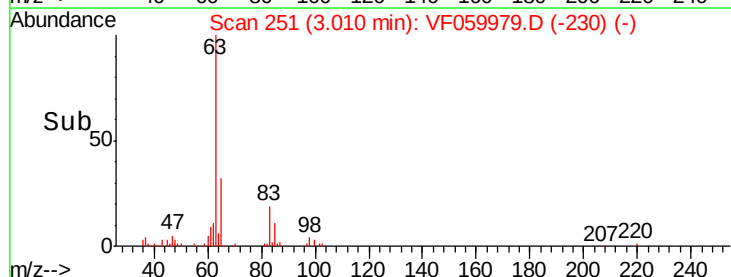
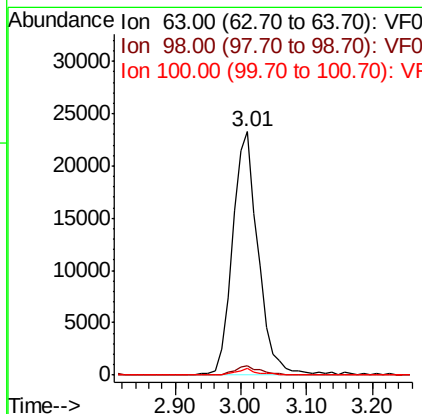
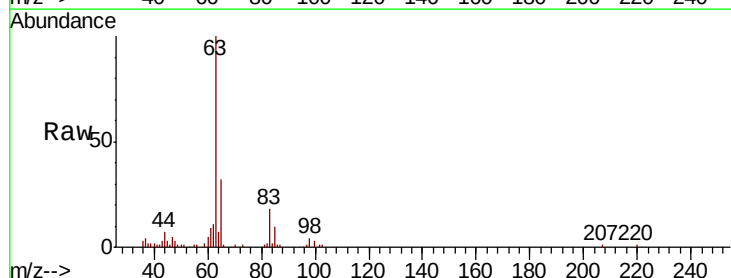
Tgt Ion: 63 Resp: 63649

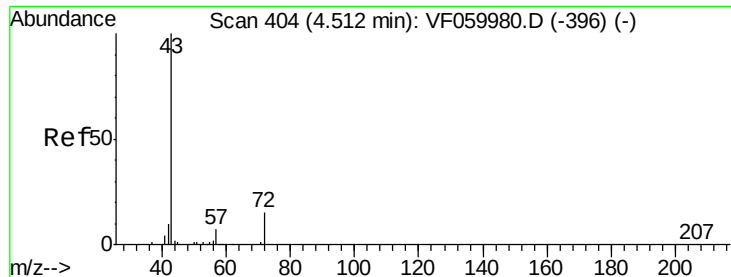
Ion Ratio Lower Upper

63 100

98 3.7 2.0 5.8

100 2.5 1.4 4.2





#25

2-Butanone

Concen: 101.21 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 65808

Ion Ratio Lower Upper

43 100

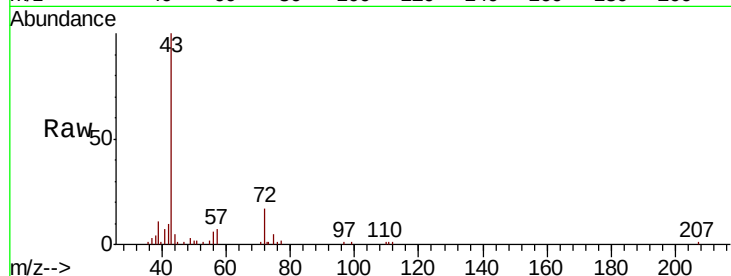
72 17.0 12.5 18.7

Manual Integrations

APPROVED

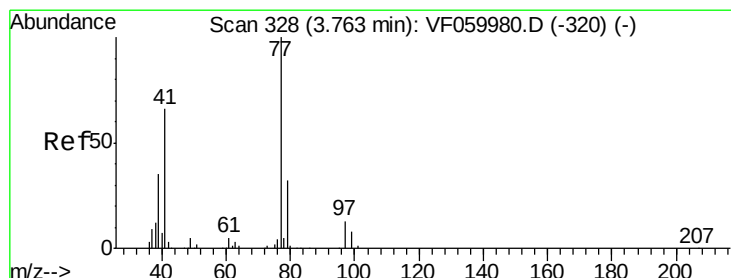
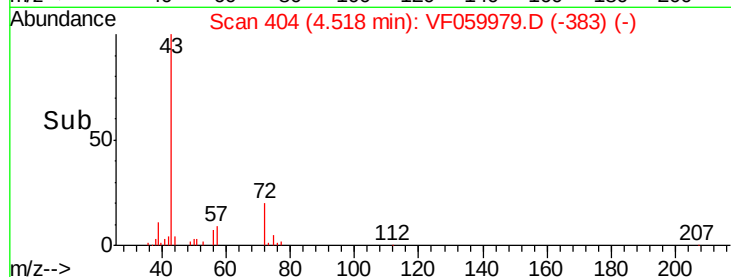
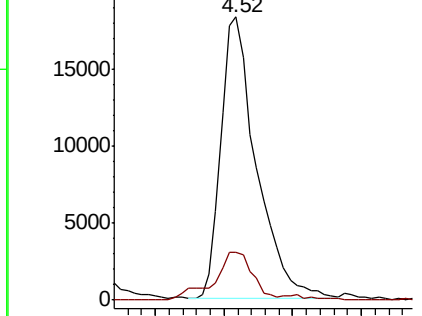
apatel

8/20/2018 11:47:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 20.61 ug/l

RT: 3.77 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF059979.D

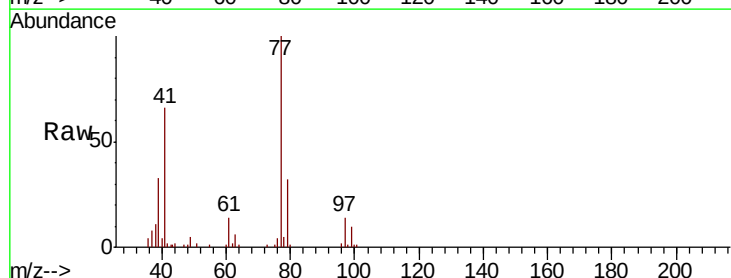
Acq: 17 Aug 2018 18:04

Tgt Ion: 77 Resp: 54133

Ion Ratio Lower Upper

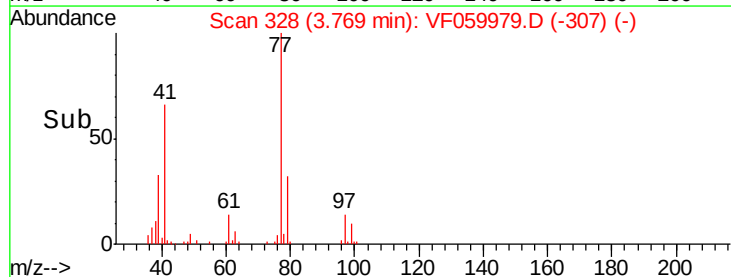
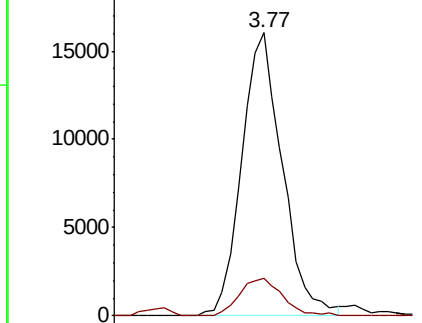
77 100

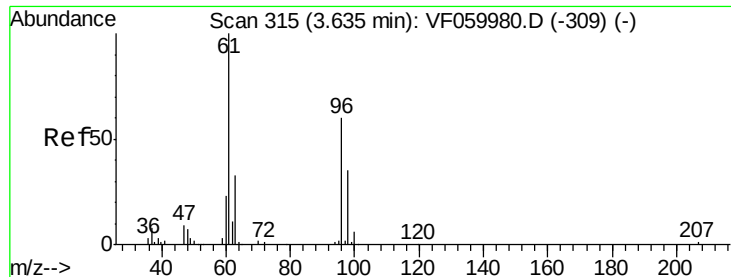
97 13.5 6.7 20.0



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

cis-1,2-Dichloroethene

Concen: 20.66 ug/l

RT: 3.64 min Scan# 315

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

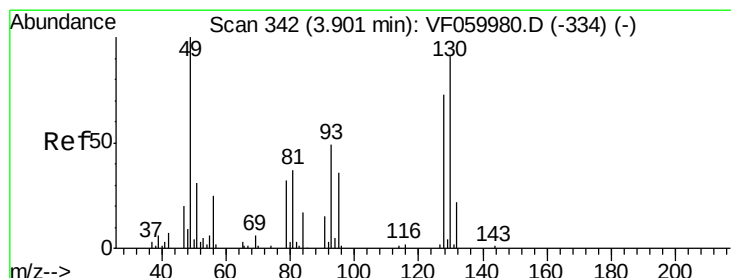
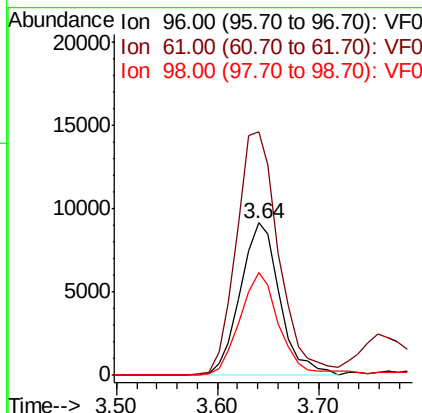
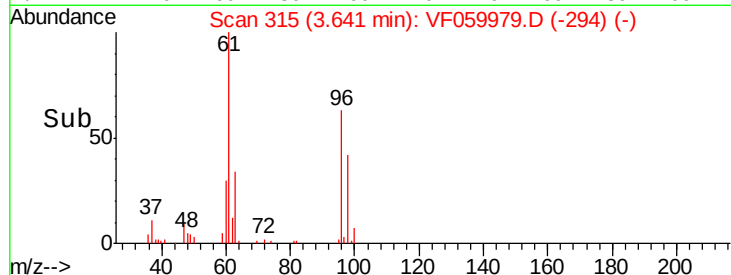
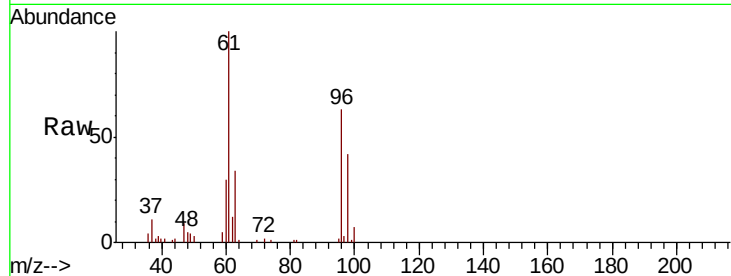
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	25069
Ion	Ratio	Lower	Upper
96	100		
61	159.5	0.0	335.0
98	67.5	0.0	117.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#28

Bromochloromethane

Concen: 21.43 ug/l

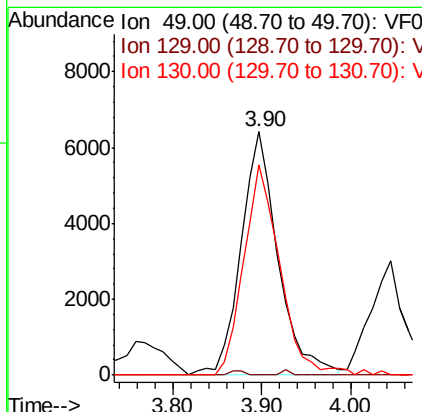
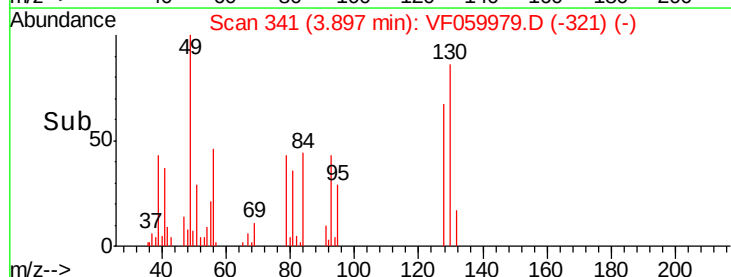
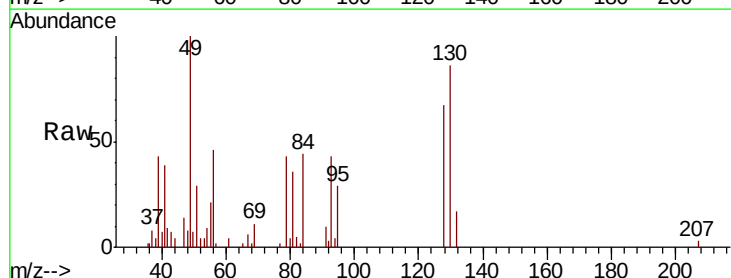
RT: 3.90 min Scan# 341

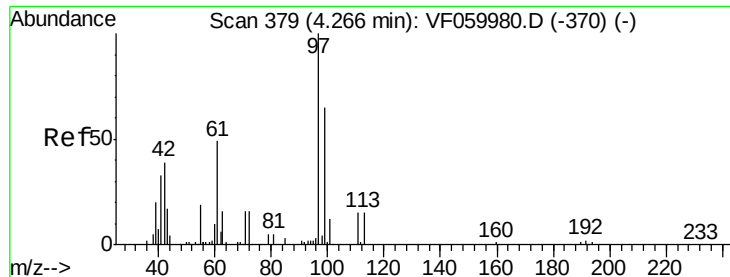
Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	49	Resp:	18399
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	7.6
130	86.4	71.3	106.9





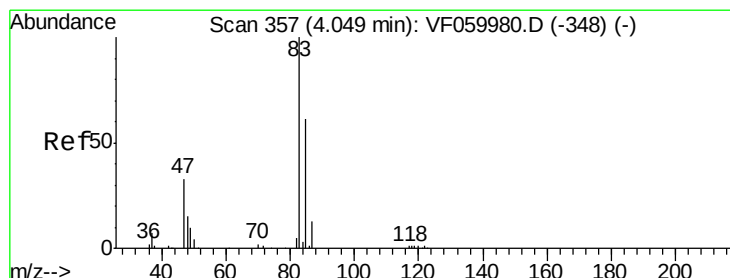
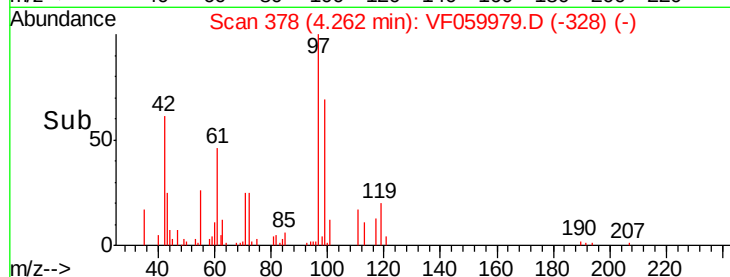
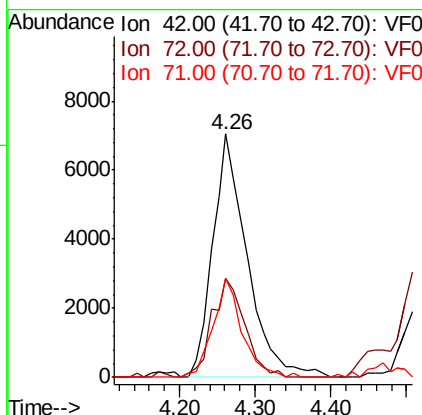
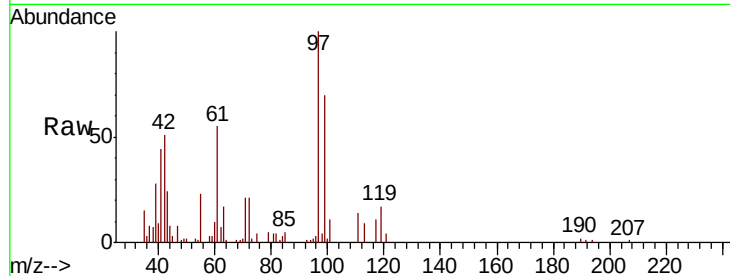
#29
Tetrahydrofuran
Concen: 95.85 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.5	29.8	44.6
71	34.7	29.0	43.4

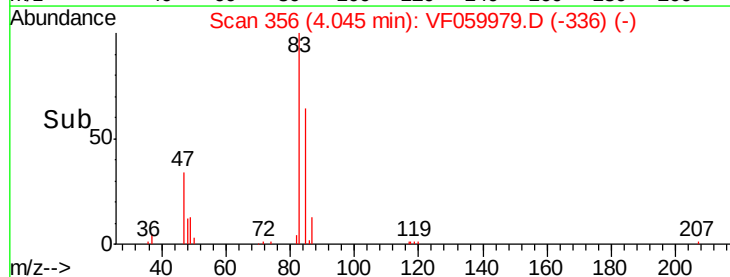
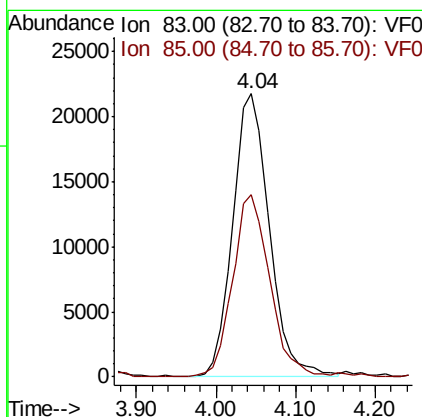
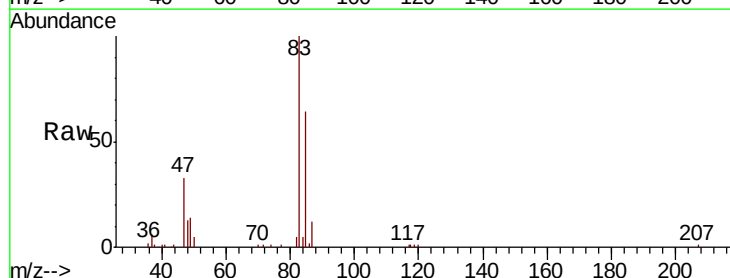
Manual Integrations
APPROVED

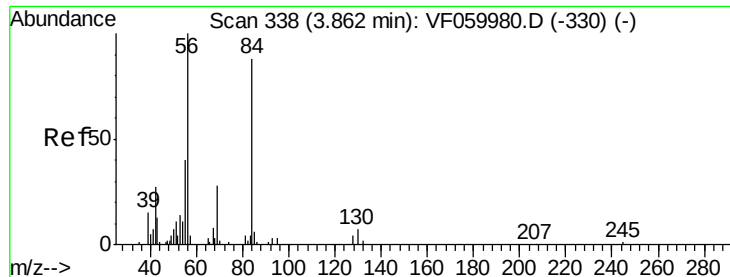
apatel
8/20/2018 11:47:47 AM



#30
Chloroform
Concen: 20.30 ug/l
RT: 4.04 min Scan# 356
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	48.8	73.2





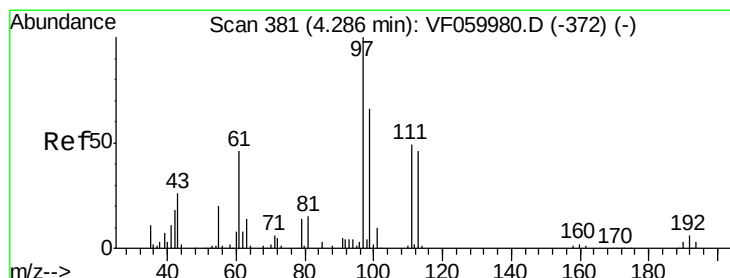
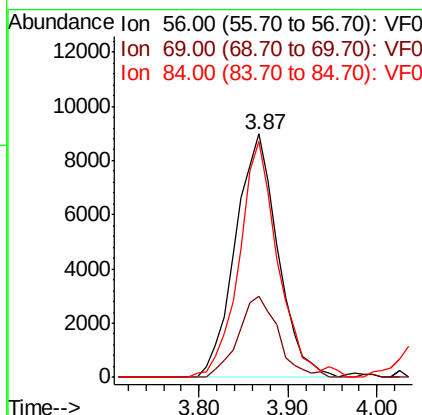
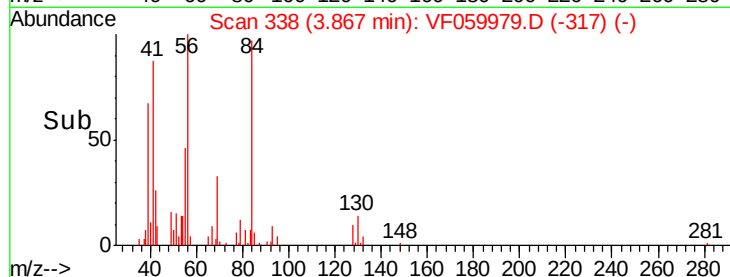
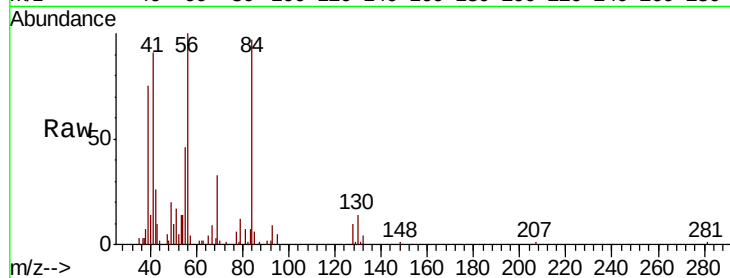
#31
Cyclohexane
Concen: 21.99 ug/l
RT: 3.87 min Scan# 338
Delta R.T. 0.01 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.3	22.8	34.2
84	96.9	70.7	106.1

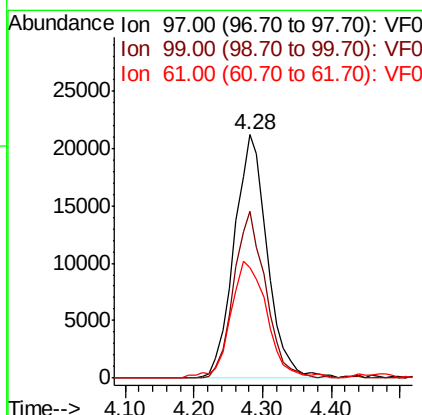
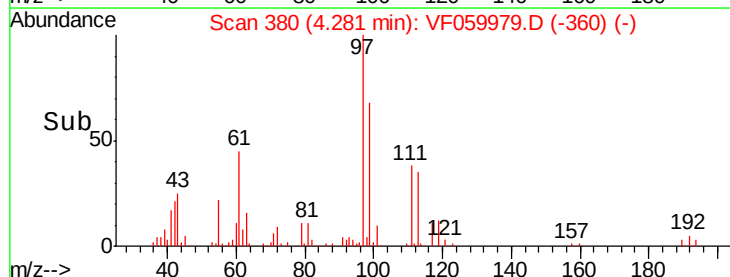
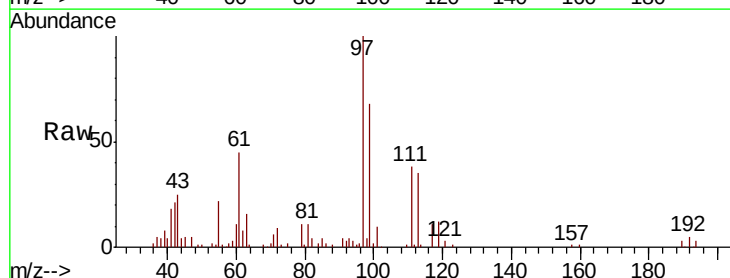
Manual Integrations
APPROVED

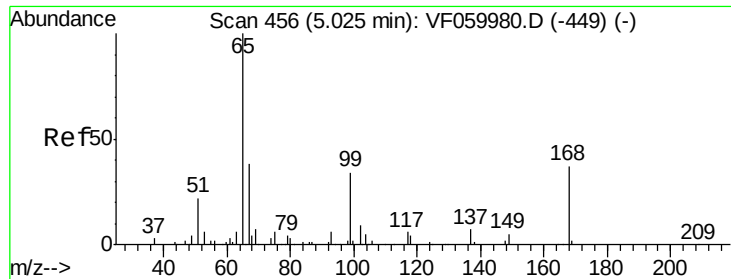
apatel
8/20/2018 11:47:47 AM



#32
1,1,1-Trichloroethane
Concen: 21.11 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.4	53.1	79.7
61	45.5	38.2	57.2





#33

1,2-Dichloroethane-d4

Concen: 20.48 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 52930

Ion Ratio Lower Upper

65 100

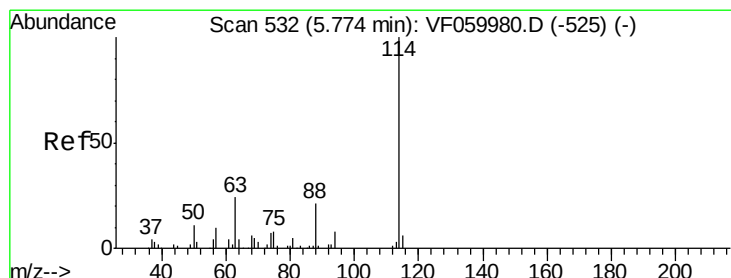
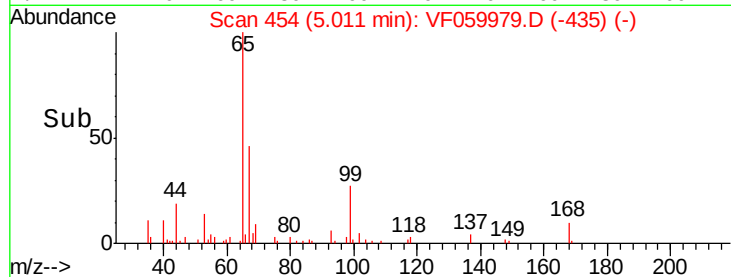
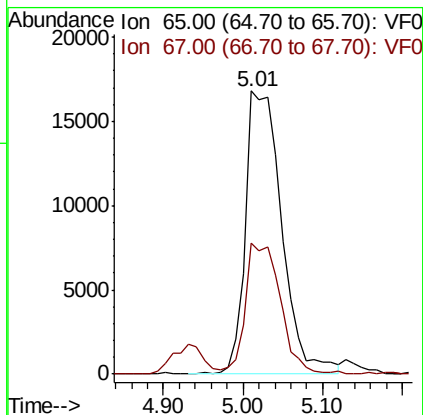
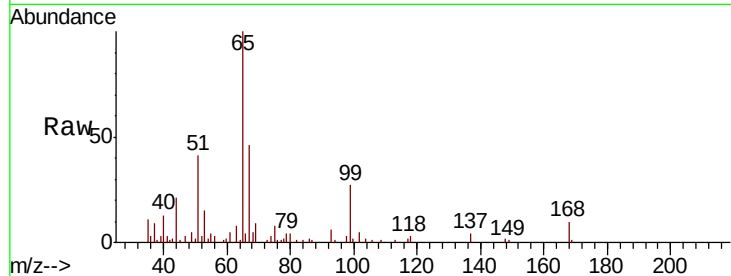
67 46.2 0.0 82.6

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

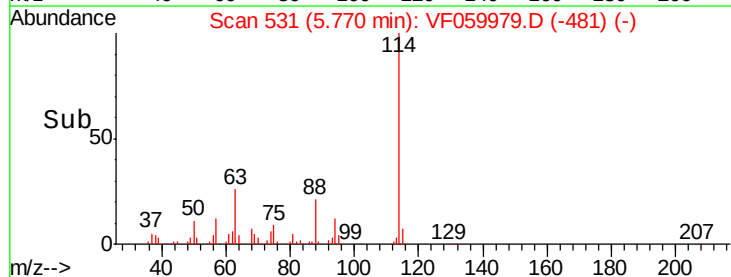
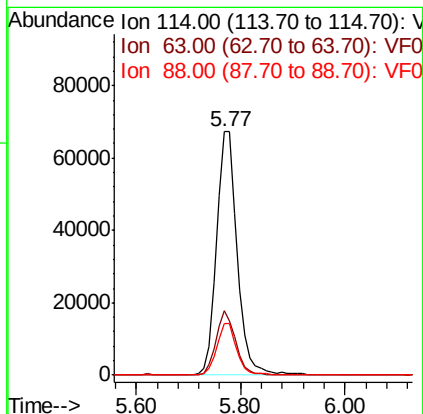
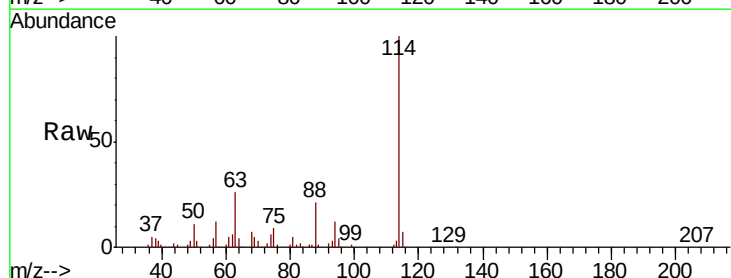
Tgt Ion: 114 Resp: 186047

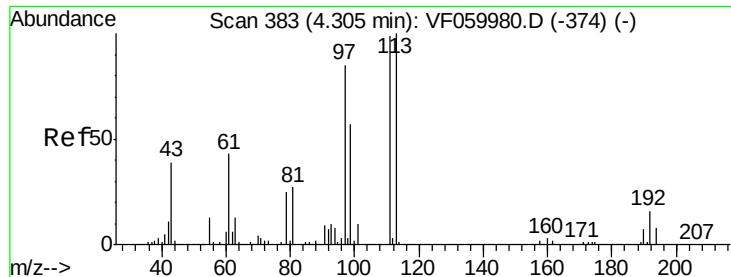
Ion Ratio Lower Upper

114 100

63 26.3 0.0 48.6

88 21.1 0.0 42.8





#35

Dibromofluoromethane

Concen: 19.95 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

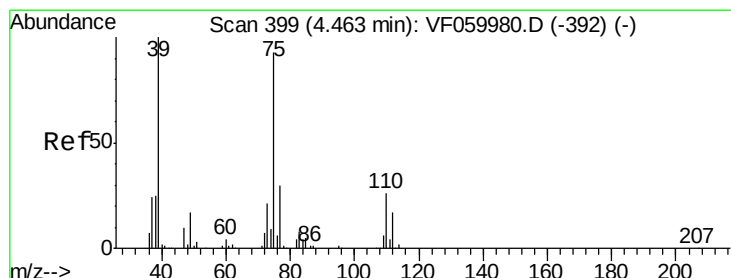
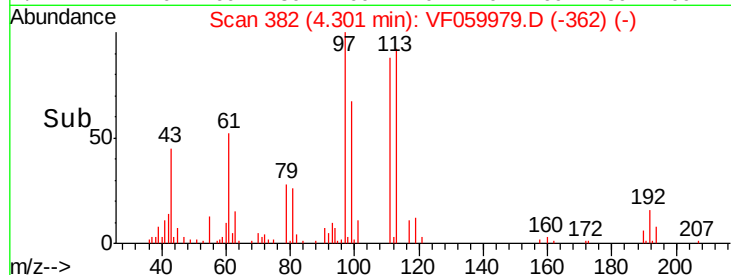
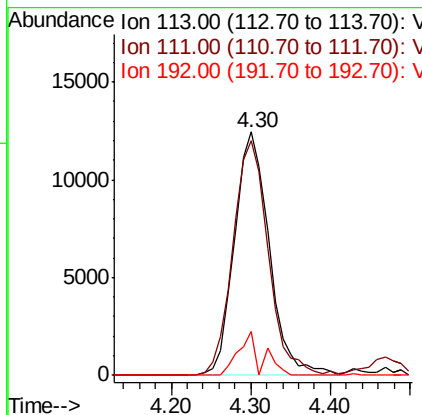
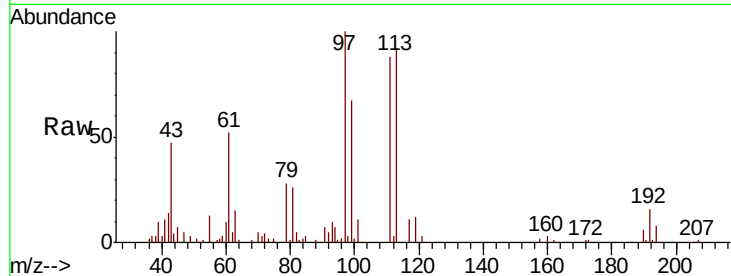
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	37766
Ion	Ratio	Lower	Upper
113	100		
111	96.1	79.5	119.3
192	17.9	12.4	18.6

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#36

1,1-Dichloropropene

Concen: 20.97 ug/l

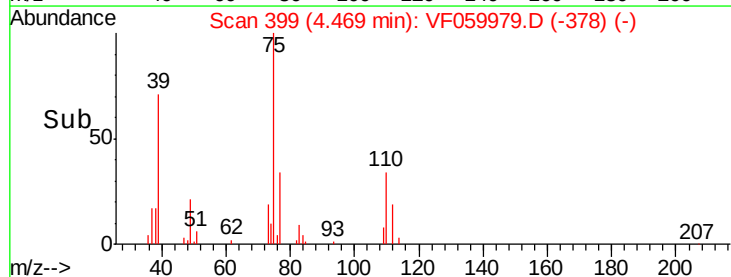
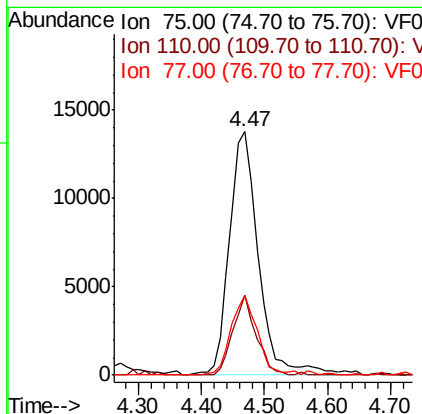
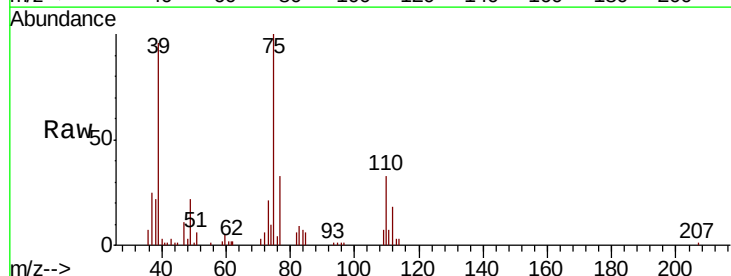
RT: 4.47 min Scan# 399

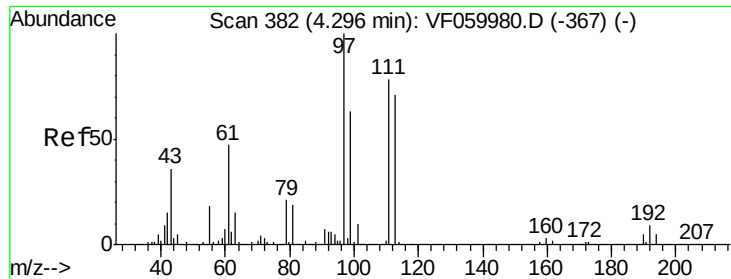
Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	75	Resp:	44026
Ion	Ratio	Lower	Upper
75	100		
110	32.6	13.8	41.4
77	32.8	25.8	38.8





#37

Ethyl Acetate

Concen: 19.97 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

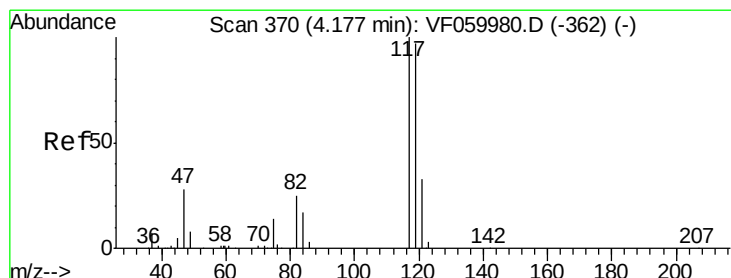
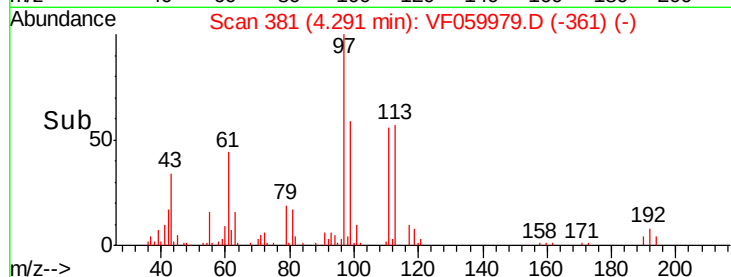
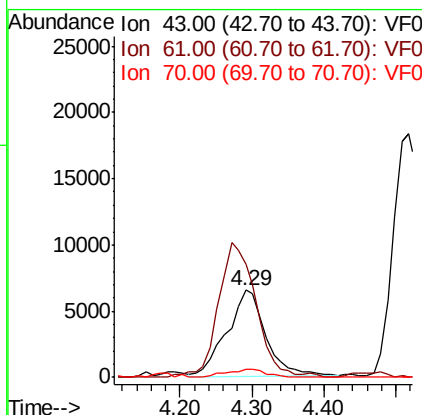
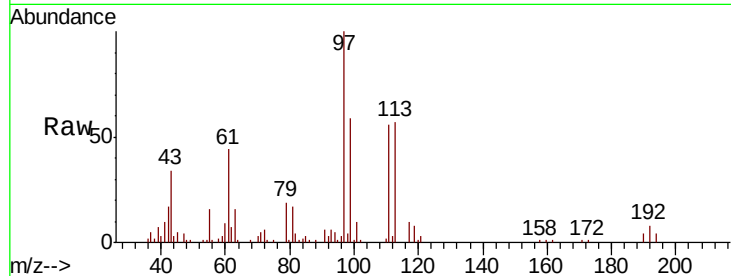
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	24722
Ion	Ratio	Lower	Upper
43	100		
61	130.0	104.5	156.7
70	9.0	5.9	8.9#

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#38

Carbon Tetrachloride

Concen: 22.00 ug/l

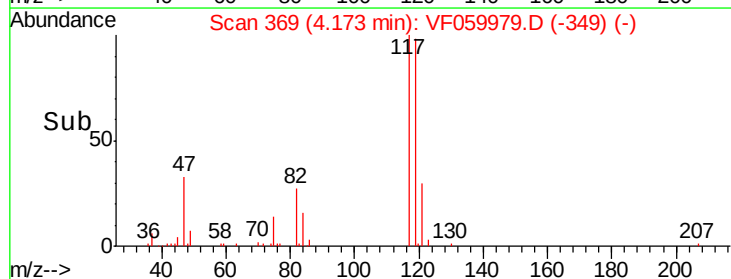
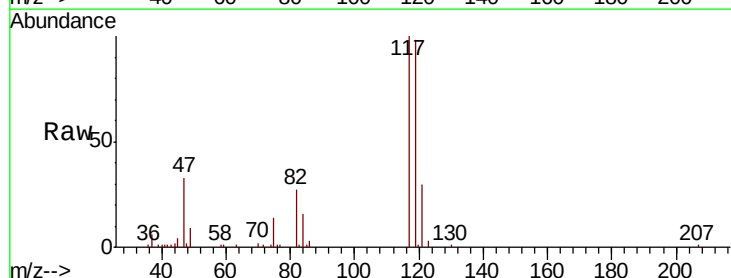
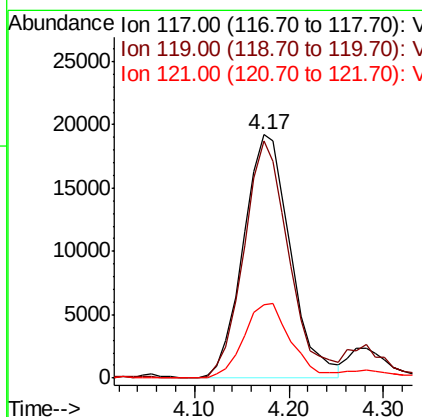
RT: 4.17 min Scan# 369

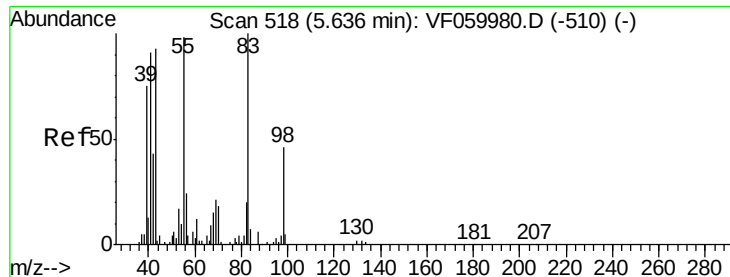
Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	117	Resp:	66349
Ion	Ratio	Lower	Upper
117	100		
119	97.7	77.8	116.6
121	30.0	26.0	39.0





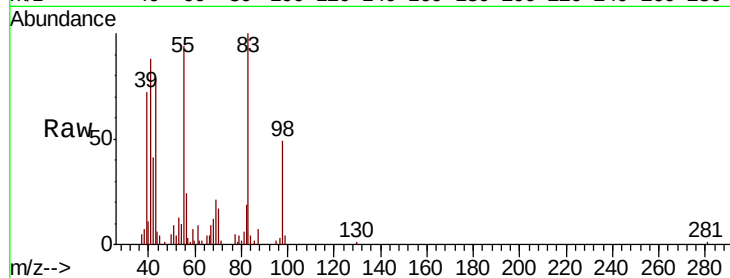
#39
Methylvlcyclohexane
Concen: 20.75 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	94.3	78.8	118.2
98	48.9	36.8	55.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM

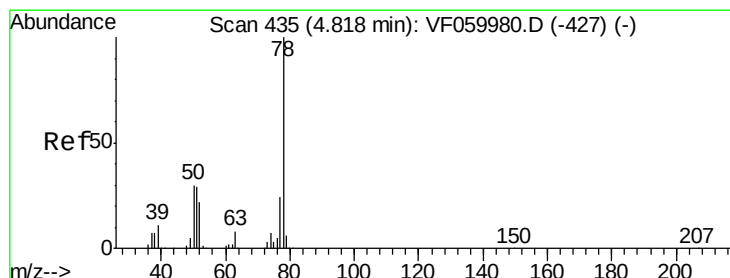
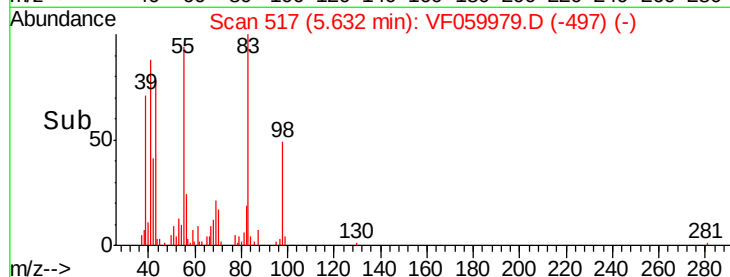
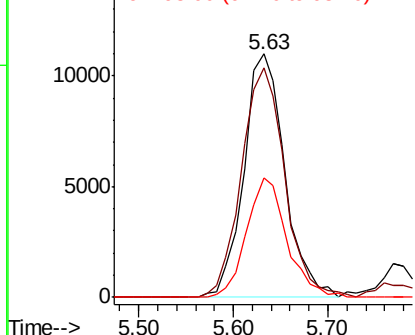


Abundance

Ion 83.00 (82.70 to 83.70): VF0

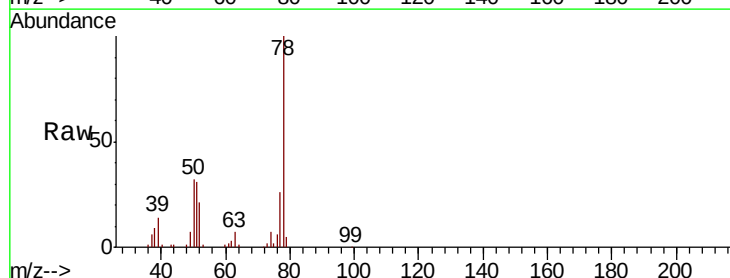
Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#40
Benzene
Concen: 19.99 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

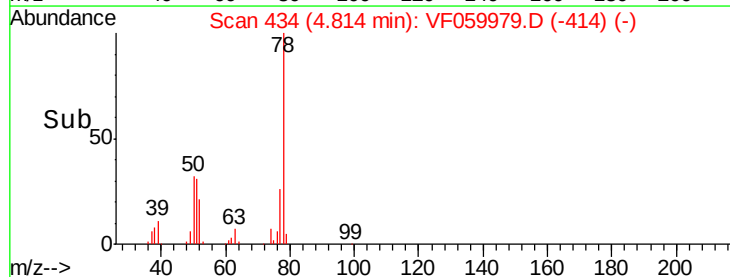
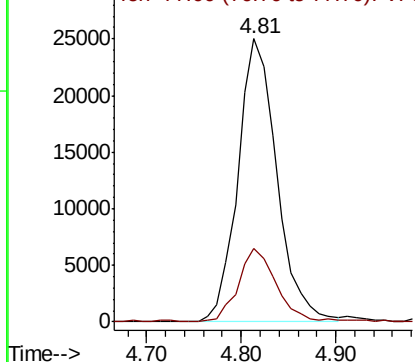
Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.1	19.1	28.7

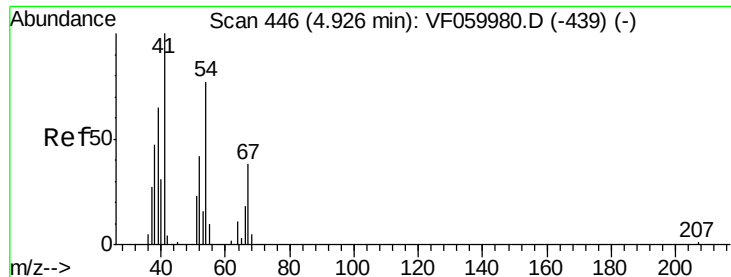


Abundance

Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0





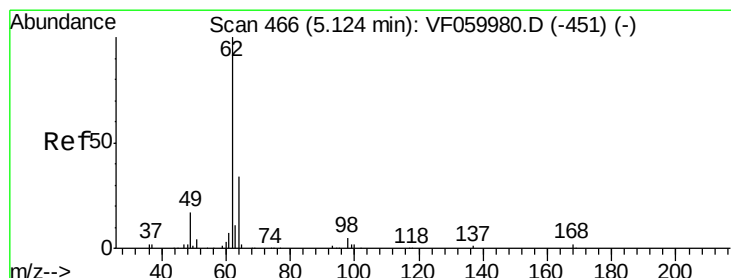
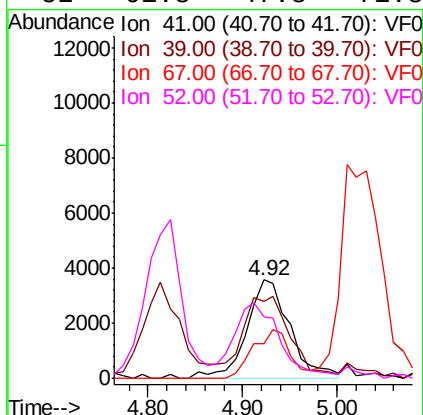
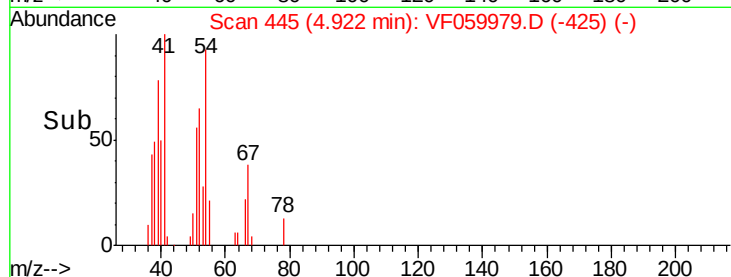
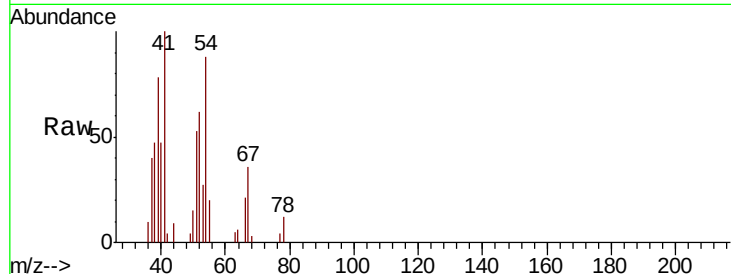
#41
Methacrylonitrile
Concen: 19.29 ug/l
RT: 4.92 min Scan# 445
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	78.0	62.9	94.3		
67	35.7	30.4	45.6		
52	61.8	47.8	71.8		

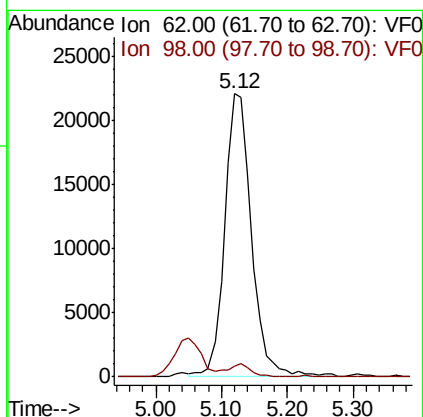
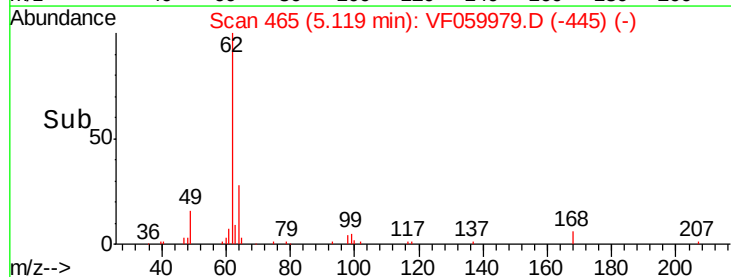
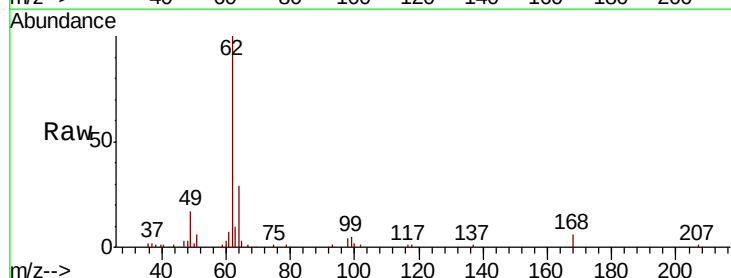
Manual Integrations
APPROVED

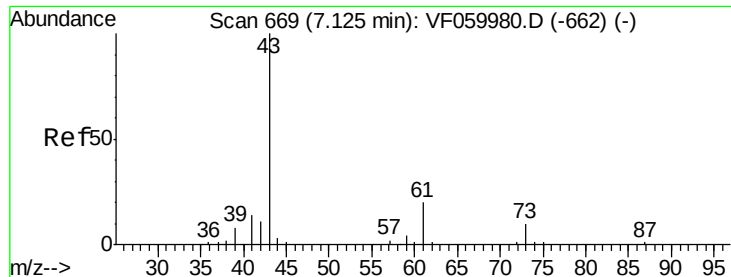
apatel
8/20/2018 11:47:47 AM



#42
1,2-Dichloroethane
Concen: 20.44 ug/l
RT: 5.12 min Scan# 465
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	4.0	0.0	9.0		





#43

Isopropyl Acetate

Concen: 19.76 ug/l

RT: 7.12 min Scan# 668

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

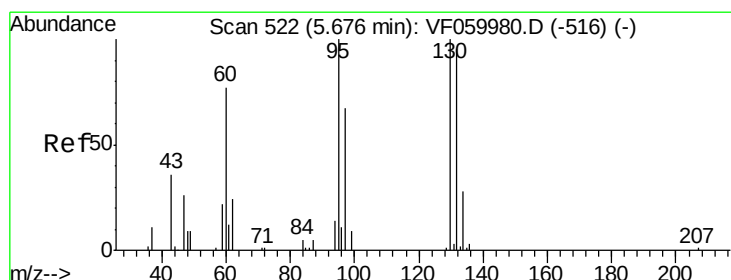
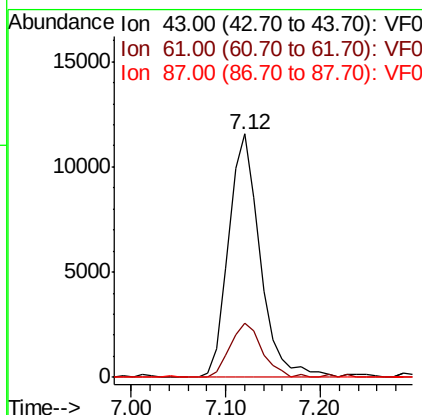
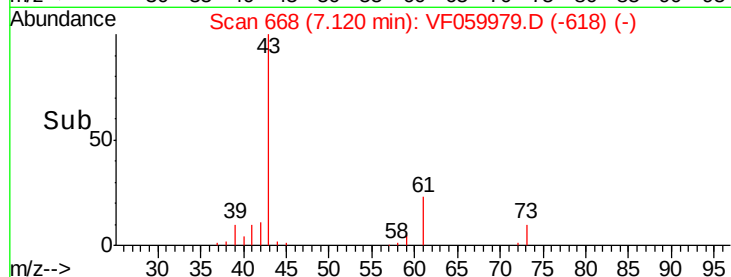
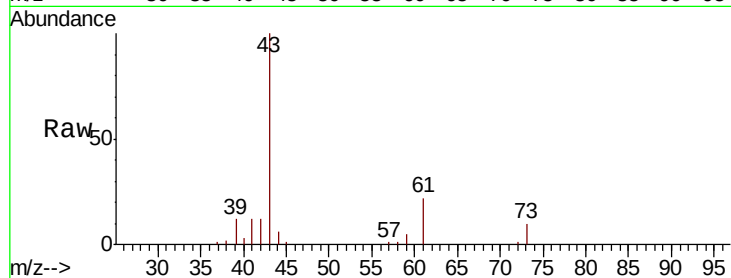
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	26662
Ion	Ratio	Lower	Upper
43	100		
61	22.3	15.8	23.8
87	0.0	0.6	0.8#

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#44

Trichloroethene

Concen: 20.25 ug/l

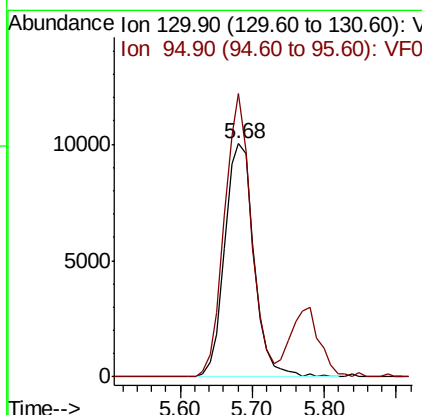
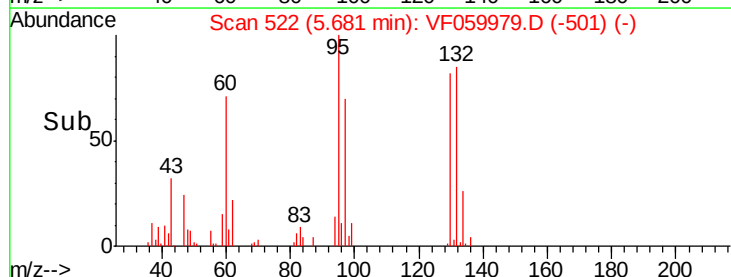
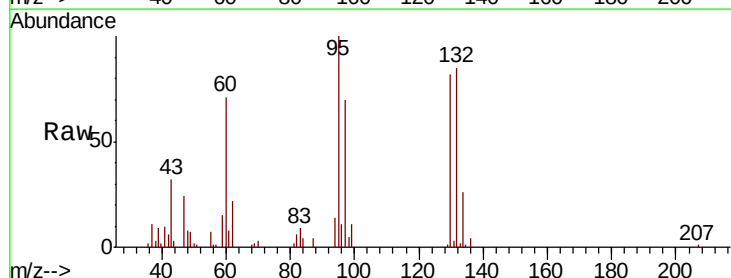
RT: 5.68 min Scan# 522

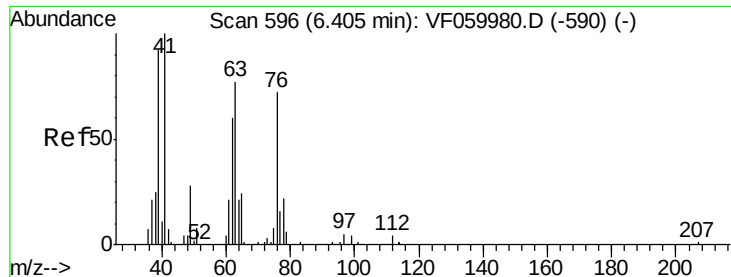
Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	130	Resp:	28241
Ion	Ratio	Lower	Upper
130	100		
95	121.4	0.0	201.8





#45

1,2-Dichloropropane

Concen: 19.78 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 20153

Ion Ratio Lower Upper

63 100

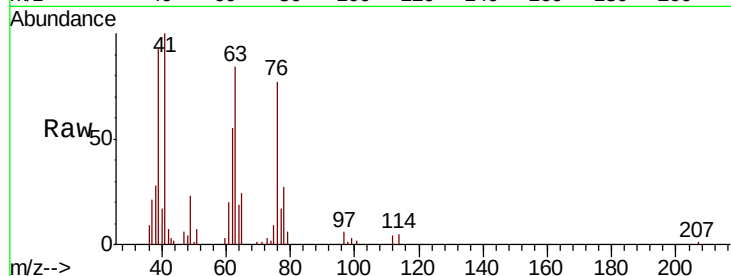
65 28.9 25.0 37.6

Manual Integrations

APPROVED

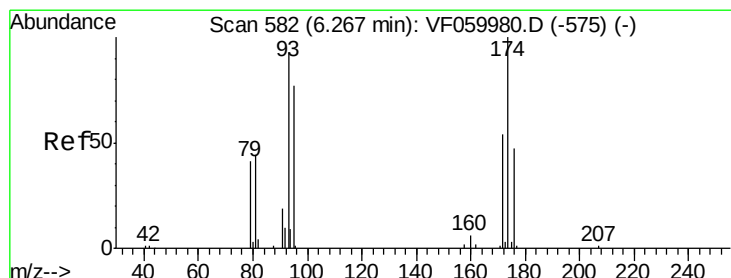
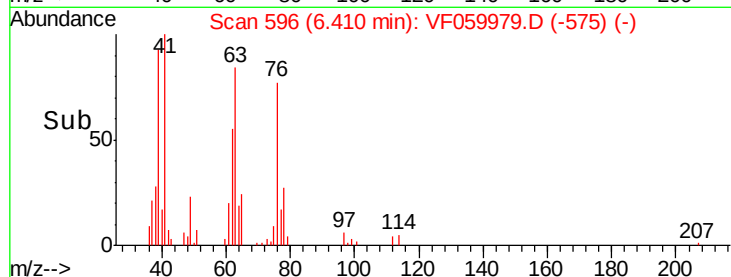
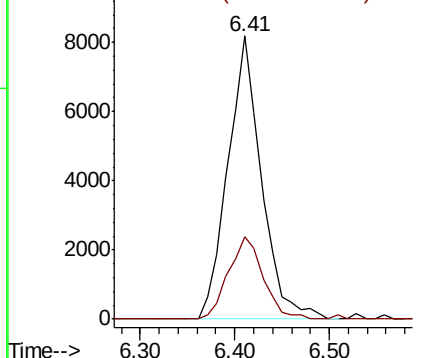
apatel

8/20/2018 11:47:47 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 21.22 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

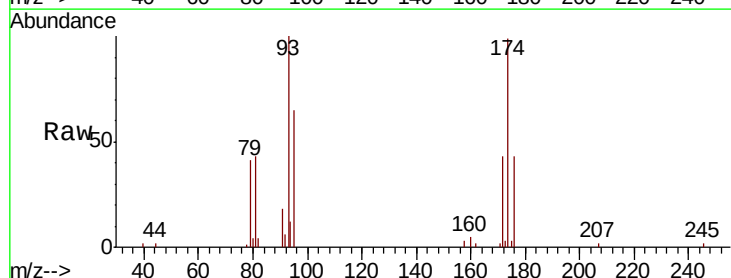
Tgt Ion: 93 Resp: 21926

Ion Ratio Lower Upper

93 100

95 65.4 67.0 100.4#

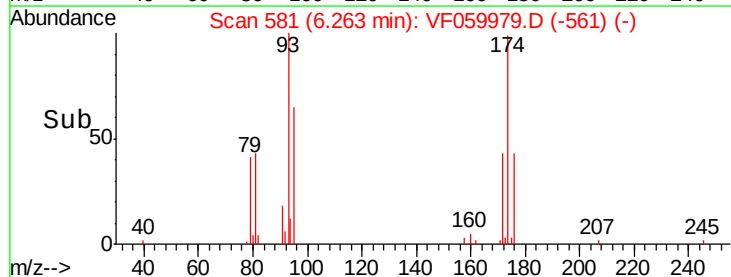
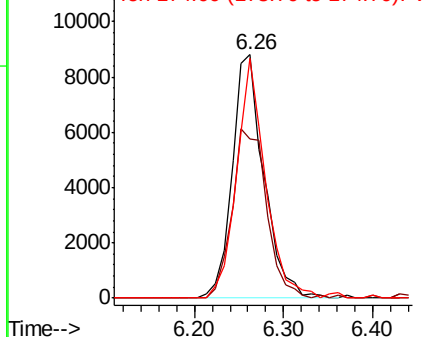
174 98.7 85.7 128.5

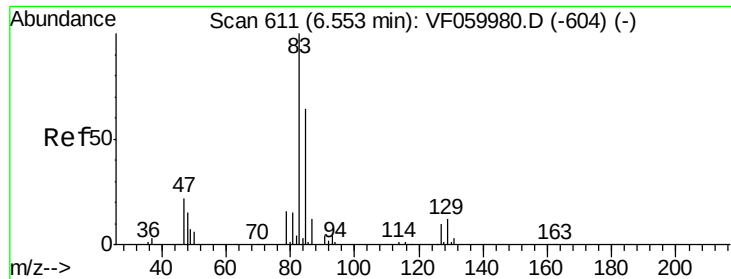


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 19.72 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

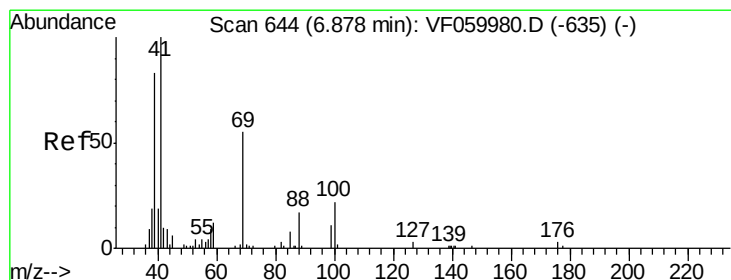
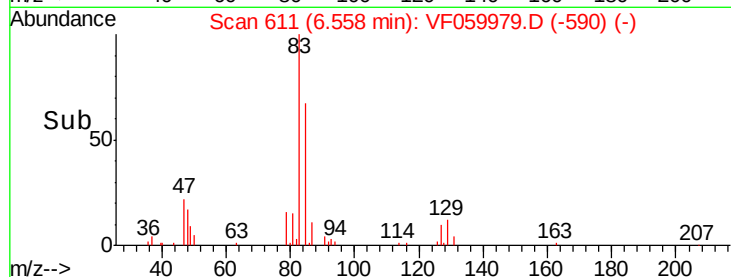
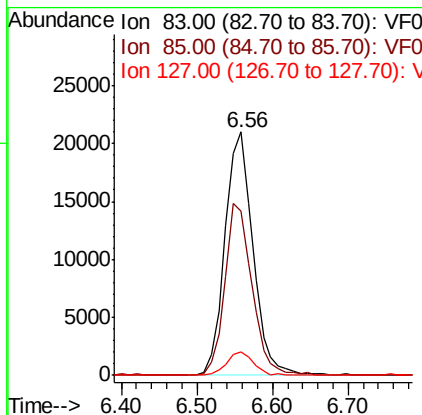
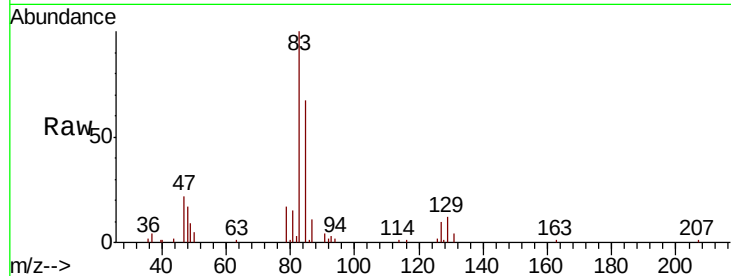
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	53811
Ion Ratio	Lower	Upper	
83	100		
85	67.3	51.4	77.0
127	9.7	8.2	12.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#48

Methyl methacrylate

Concen: 18.99 ug/l

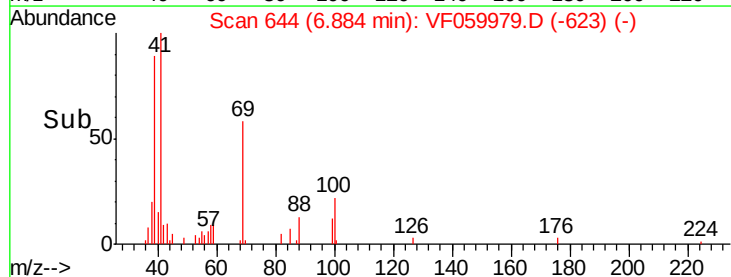
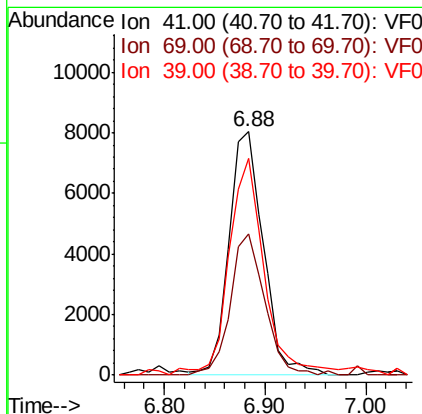
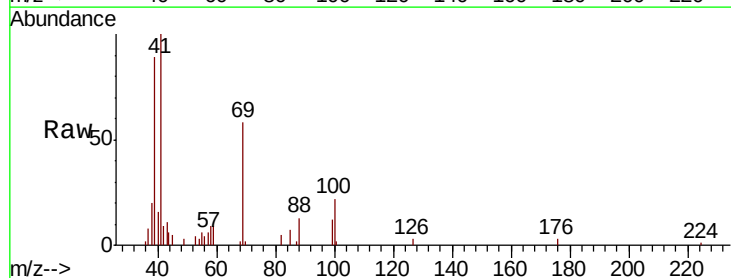
RT: 6.88 min Scan# 644

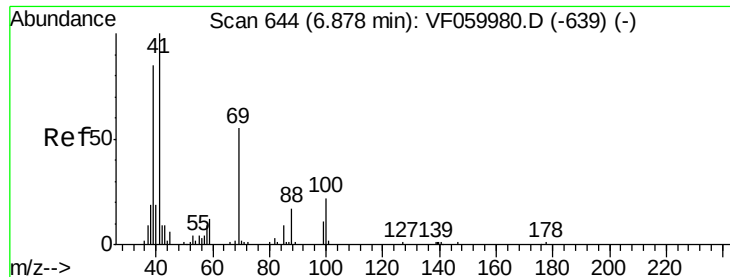
Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	41	Resp:	19097
Ion Ratio	Lower	Upper	
41	100		
69	57.9	44.4	66.6
39	88.8	67.8	101.6





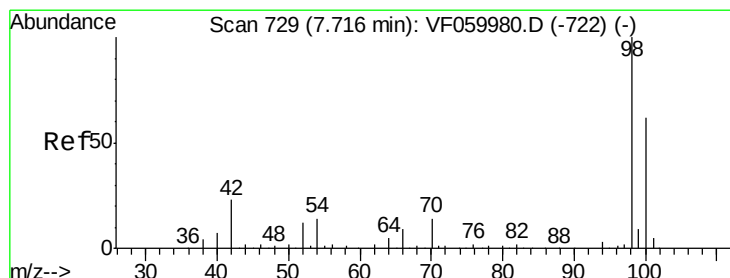
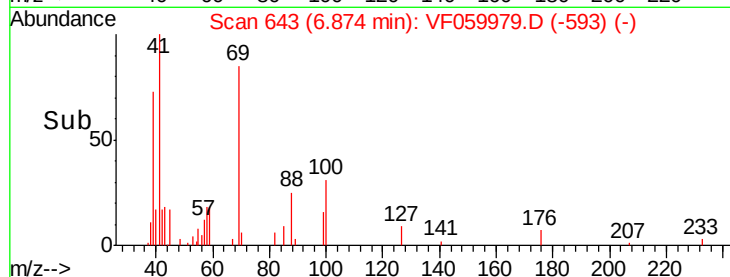
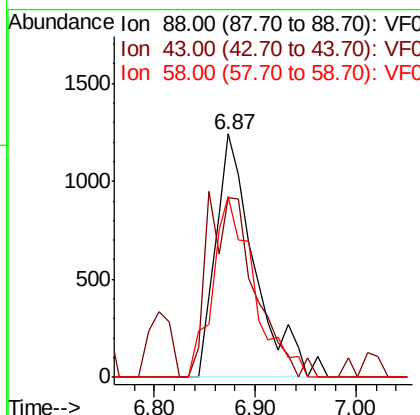
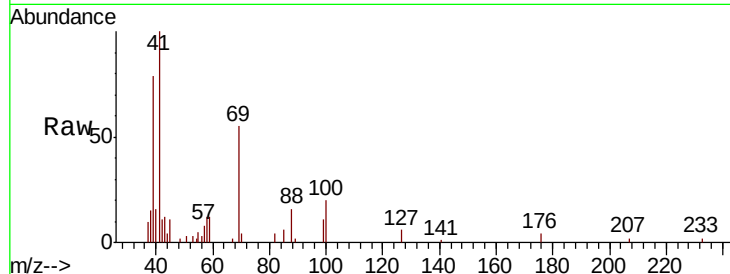
#49
1,4-Dioxane
Concen: 413.46 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	73.9	43.2	64.8#
58	74.2	42.0	63.0#

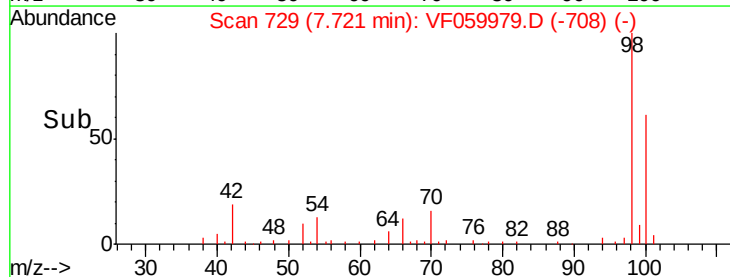
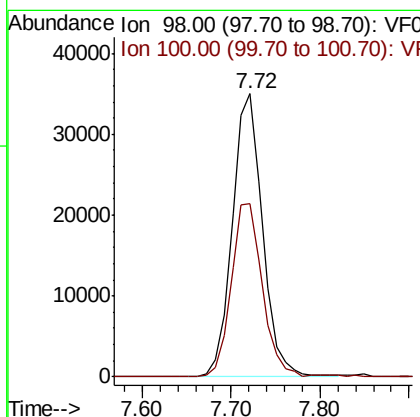
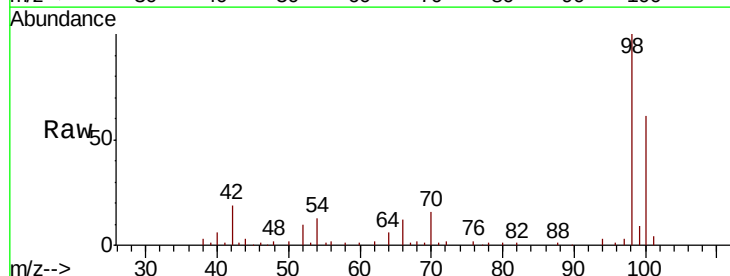
Manual Integrations
APPROVED

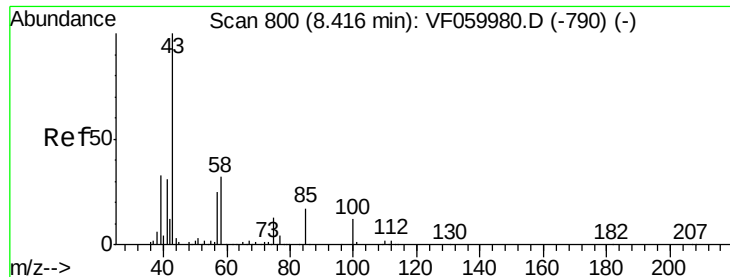
apatel
8/20/2018 11:47:47 AM



#50
Toluene-d8
Concen: 19.77 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Lower	Upper
98	100		
100	61.3	49.8	74.8





#51

4-Methyl-2-Pentanone

Concen: 100.54 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 126689

Ion Ratio Lower Upper

43 100

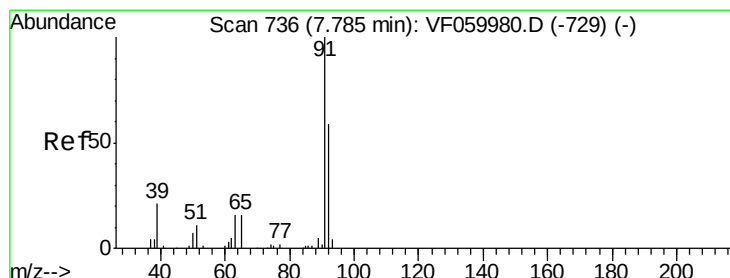
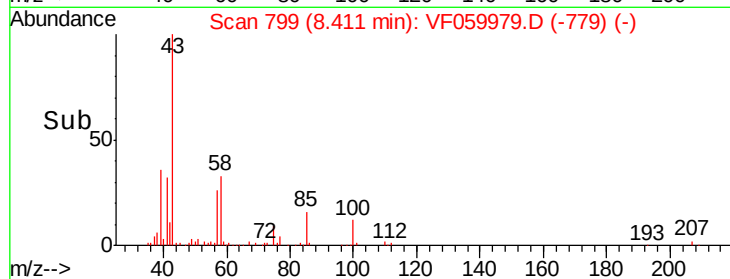
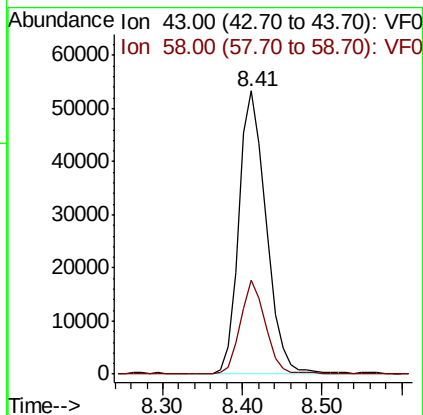
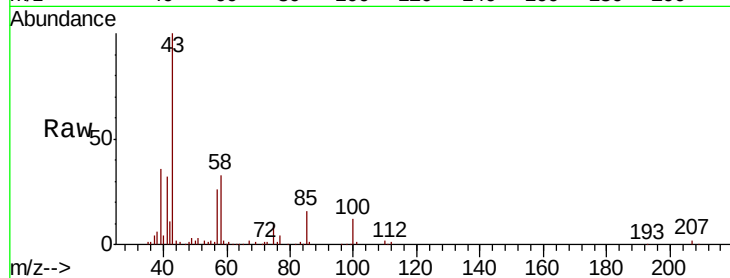
58 33.1 25.6 38.4

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#52

Toluene

Concen: 21.32 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF059979.D

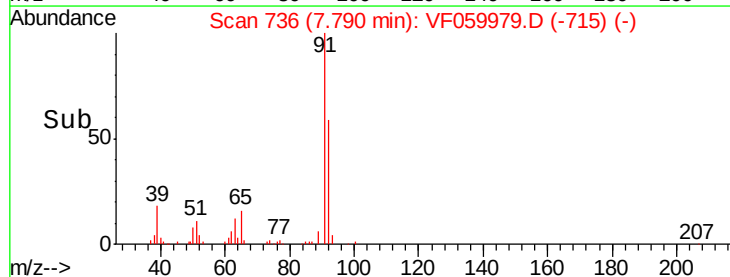
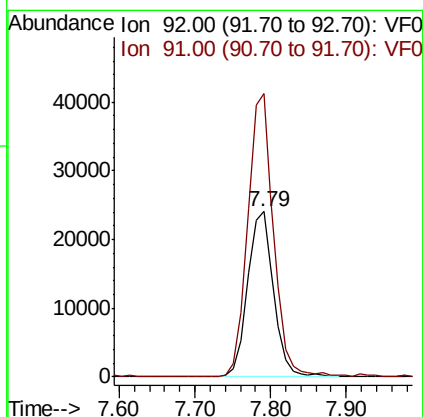
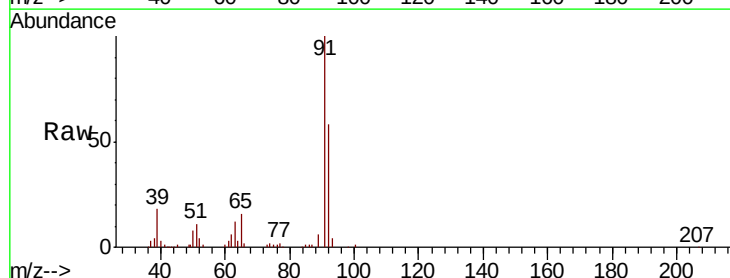
Acq: 17 Aug 2018 18:04

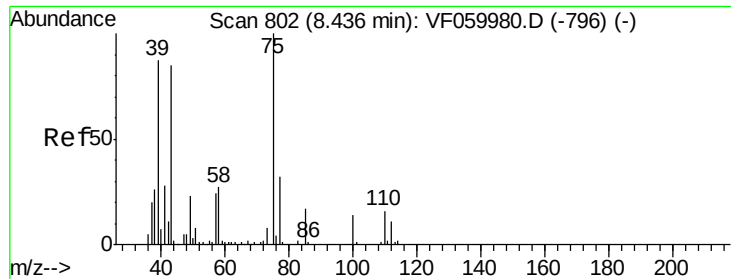
Tgt Ion: 92 Resp: 57354

Ion Ratio Lower Upper

92 100

91 171.5 136.5 204.7





#53

t-1,3-Dichloropropene

Concen: 20.65 ug/l

RT: 8.43 min Scan# 801

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 47855

Ion Ratio Lower Upper

75 100

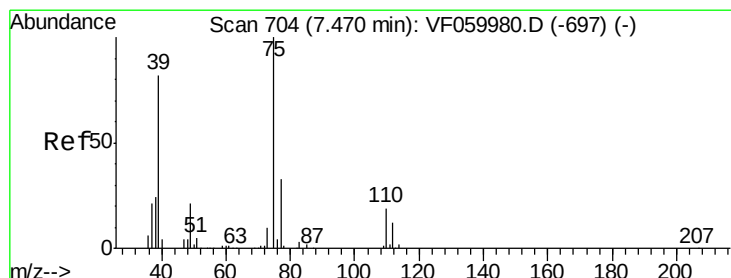
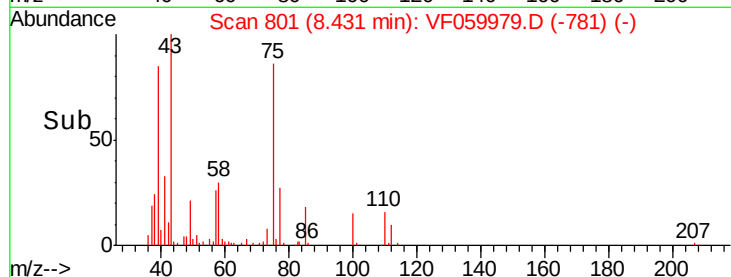
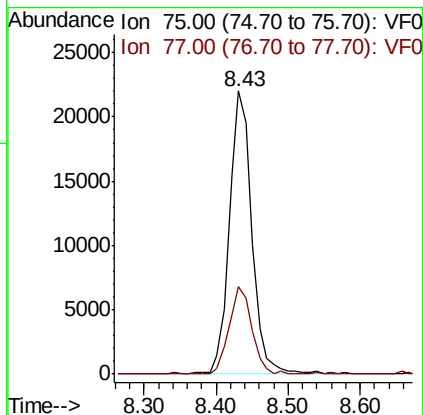
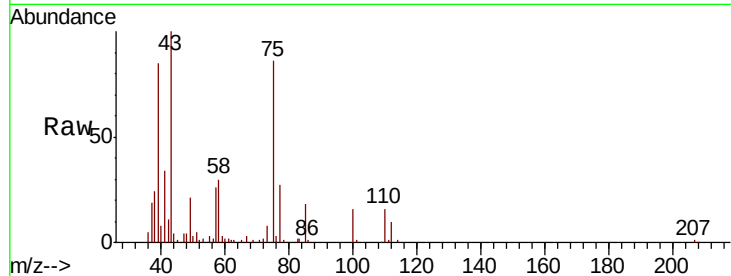
77 31.1 25.8 38.6

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#54

cis-1,3-Dichloropropene

Concen: 19.66 ug/l

RT: 7.47 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

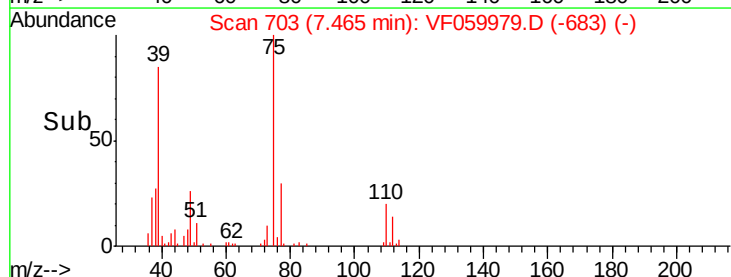
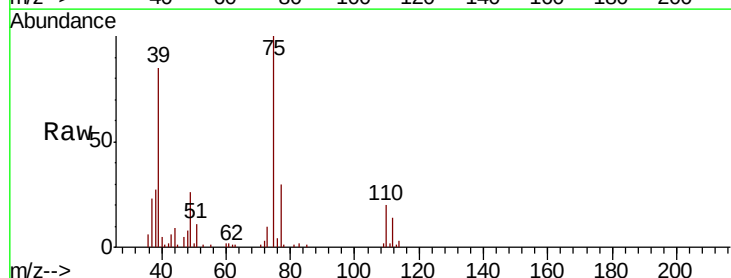
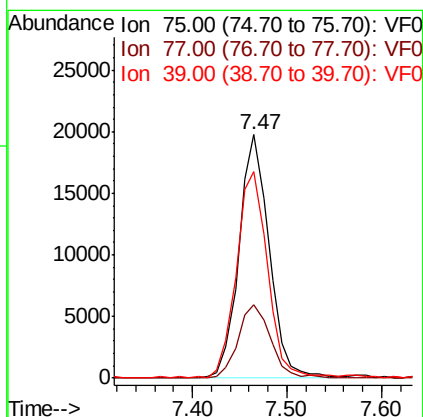
Tgt Ion: 75 Resp: 43899

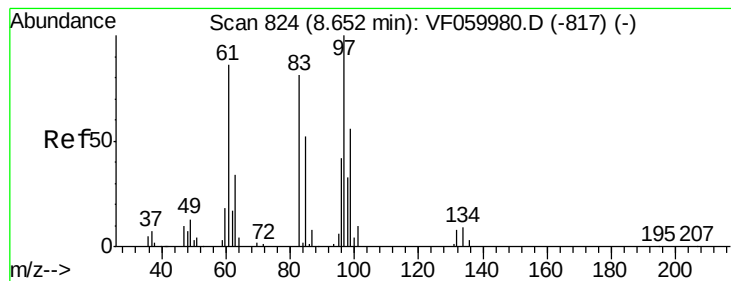
Ion Ratio Lower Upper

75 100

77 30.1 26.0 39.0

39 84.9 65.3 97.9





#55

1,1,2-Trichloroethane

Concen: 20.37 ug/l

RT: 8.65 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

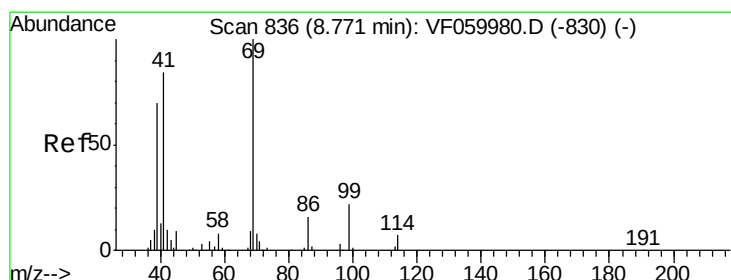
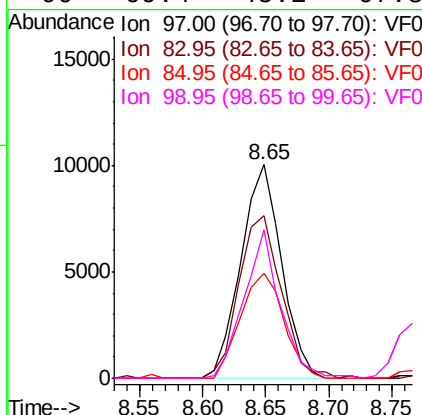
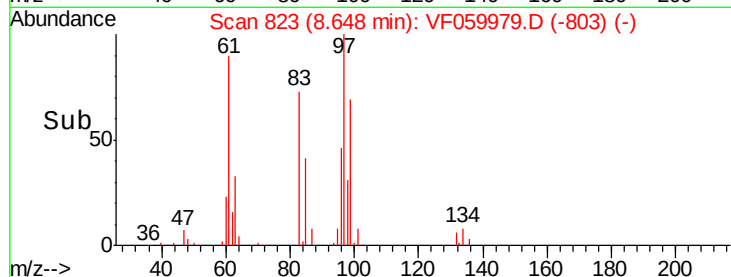
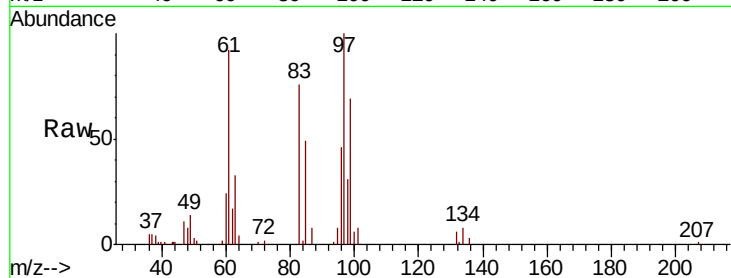
ClientSampleId :

VSTDIC020

Tot Ion:	97	Resp:	22466
Ion	Ratio	Lower	Upper
97	100		
83	76.2	64.9	97.3
85	49.4	41.8	62.6
99	69.4	45.2	67.8#

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#56

Ethyl methacrylate

Concen: 19.53 ug/l

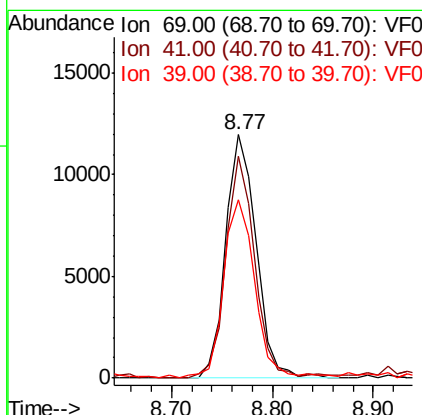
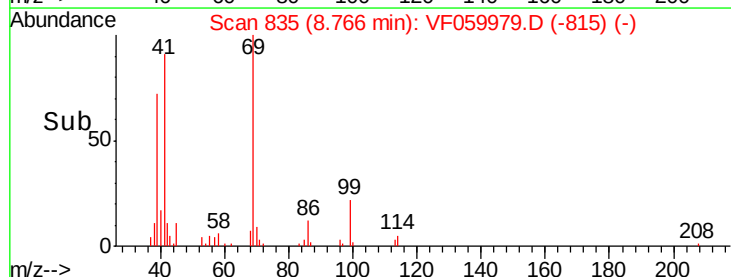
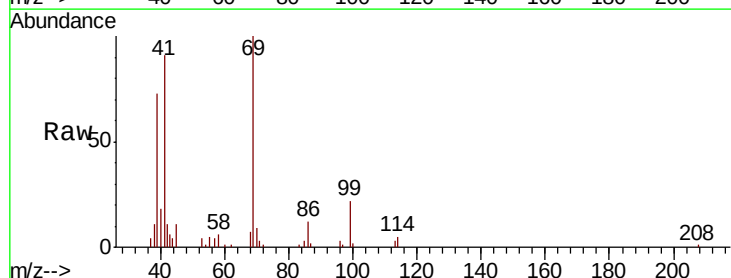
RT: 8.77 min Scan# 835

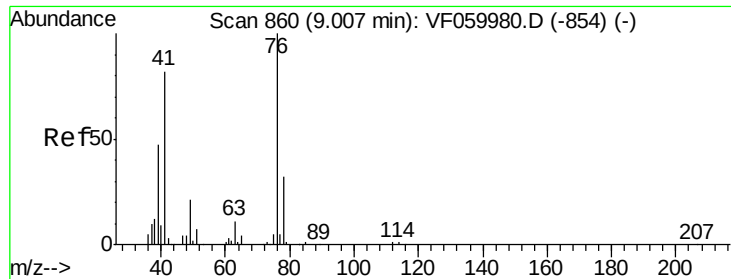
Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	69	Resp:	25105
Ion	Ratio	Lower	Upper
69	100		
41	90.9	67.8	101.6
39	73.3	55.8	83.6





#57

1,3-Dichloropropane

Concen: 19.74 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 38675

Ion Ratio Lower Upper

76 100

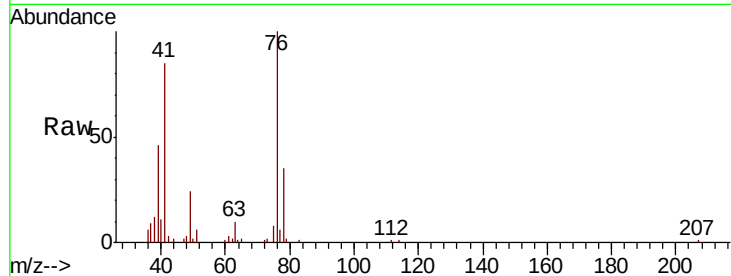
78 34.7 25.3 37.9

Manual Integrations

APPROVED

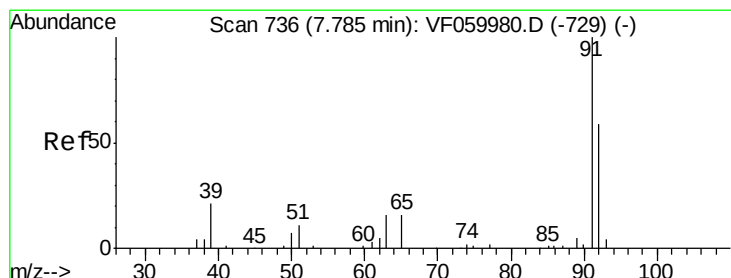
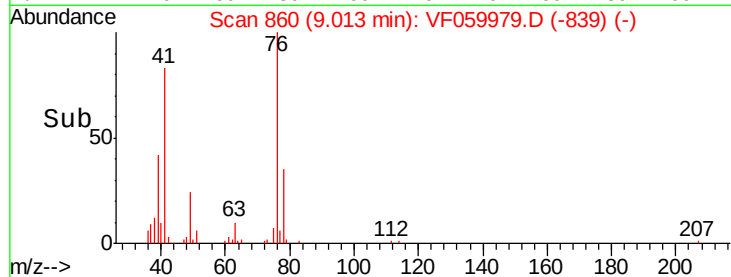
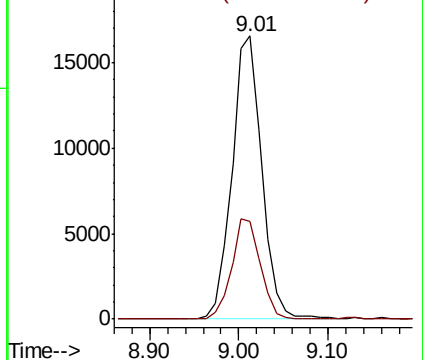
apatel

8/20/2018 11:47:47 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 118.32 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF059979.D

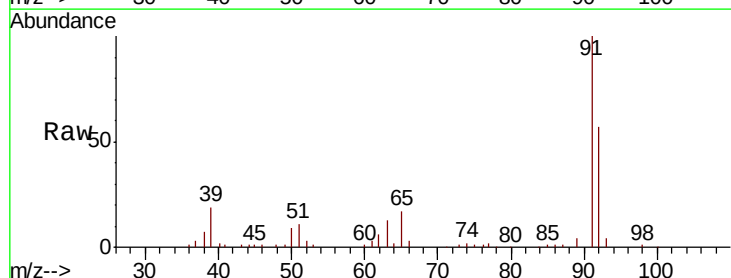
Acq: 17 Aug 2018 18:04

Tgt Ion: 63 Resp: 12500

Ion Ratio Lower Upper

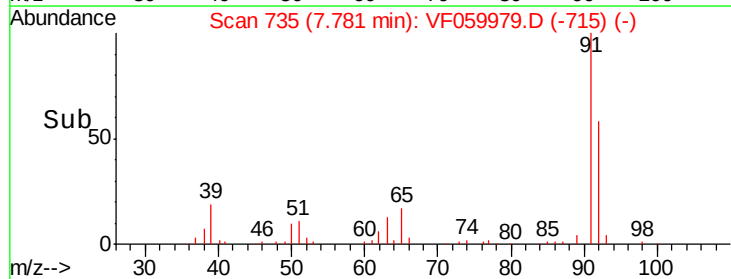
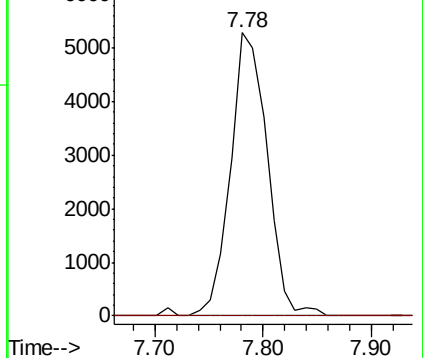
63 100

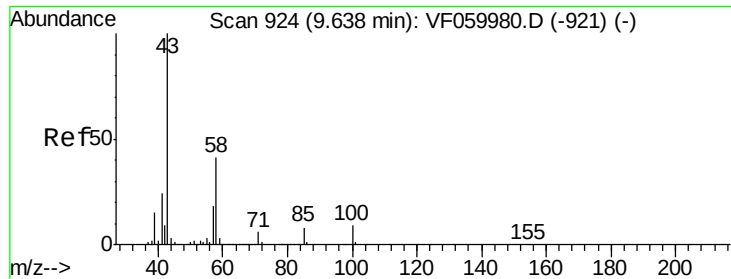
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





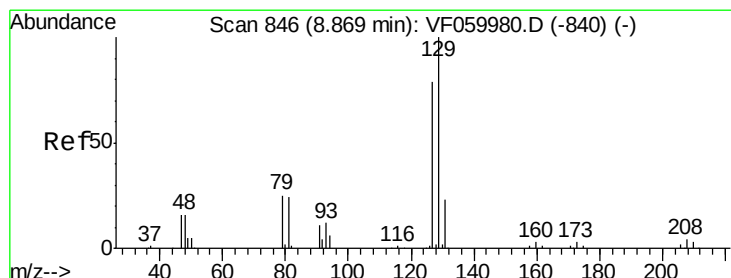
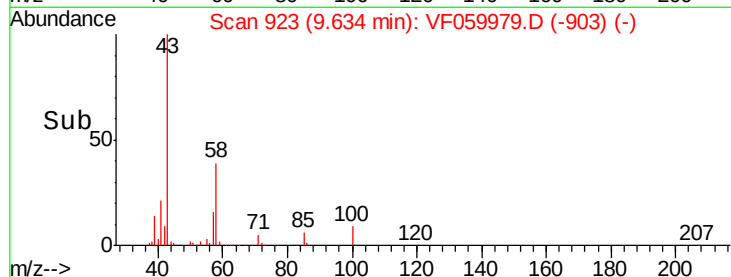
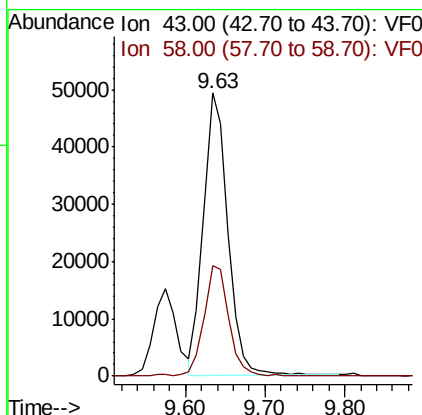
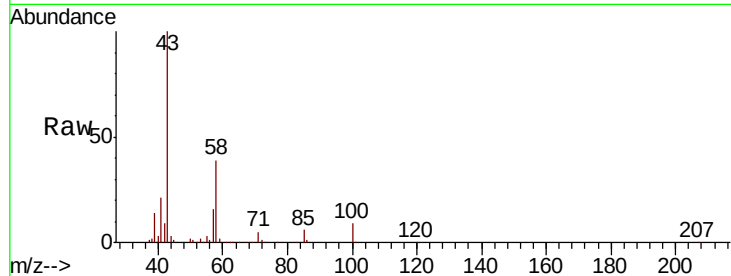
#59
2-Hexanone
Concen: 101.08 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.1	20.1	60.3

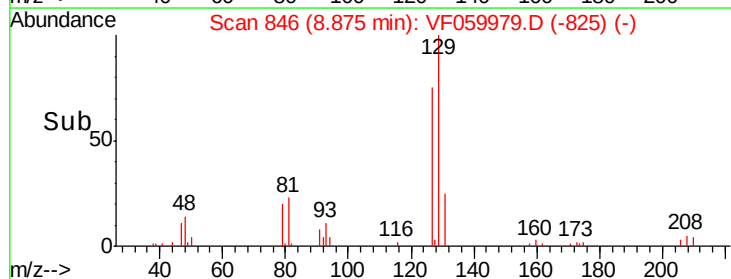
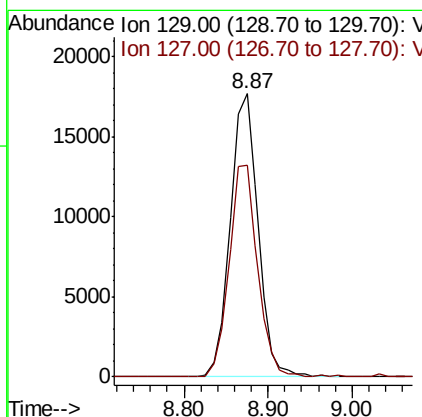
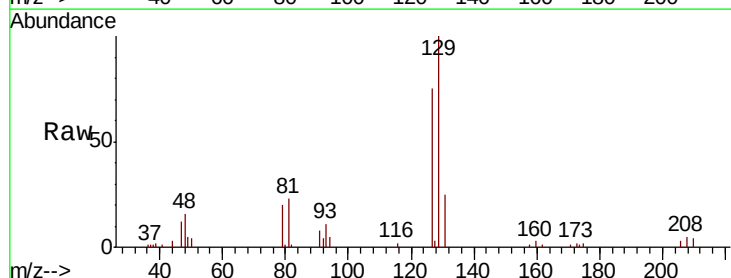
Manual Integrations
APPROVED

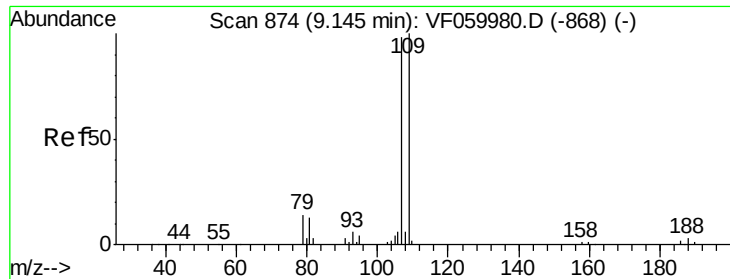
apatel
8/20/2018 11:47:47 AM



#60
Dibromochloromethane
Concen: 20.26 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.01 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.5	118.5





#61

1,2-Dibromoethane

Concen: 19.99 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 27812

Ion Ratio Lower Upper

107 100

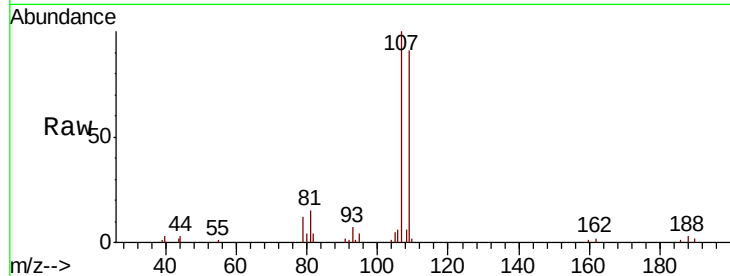
109 91.4 81.7 122.5

Manual Integrations

APPROVED

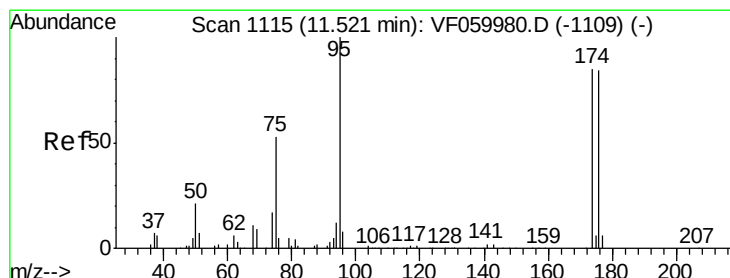
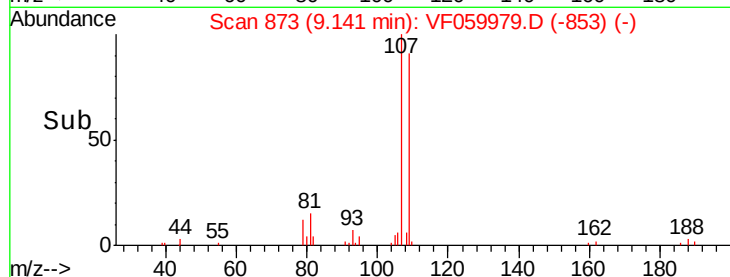
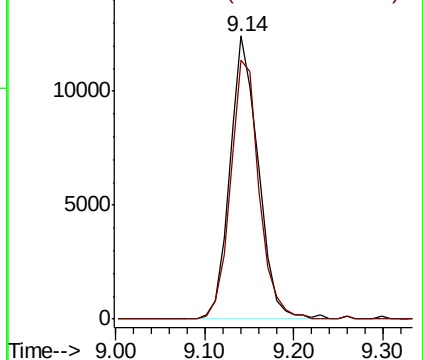
apatel

8/20/2018 11:47:47 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 19.29 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

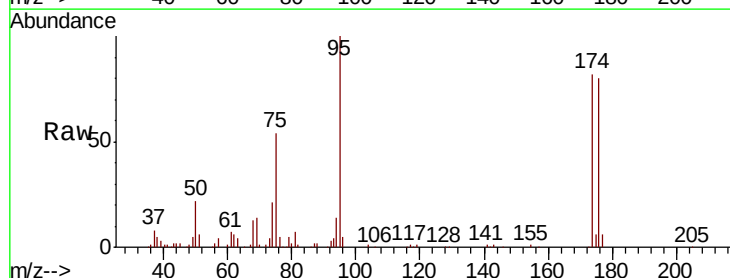
Tgt Ion: 95 Resp: 49673

Ion Ratio Lower Upper

95 100

174 81.6 0.0 169.8

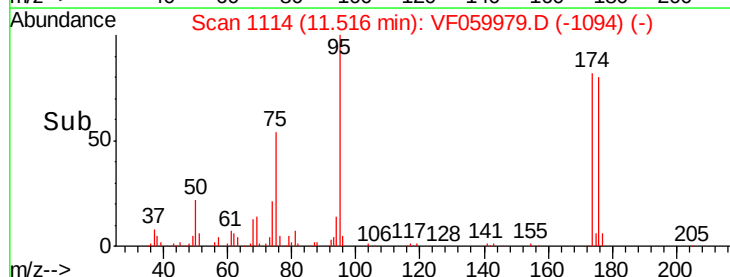
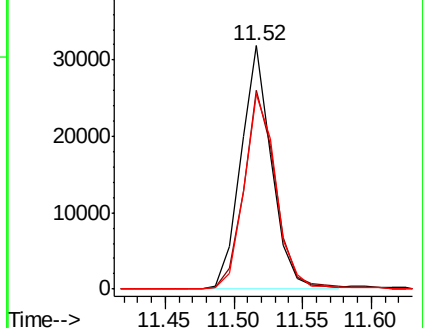
176 80.3 0.0 167.8

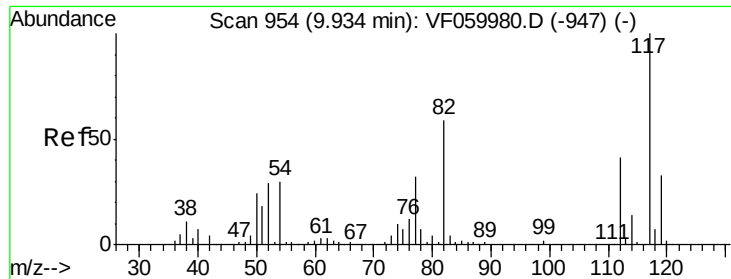


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





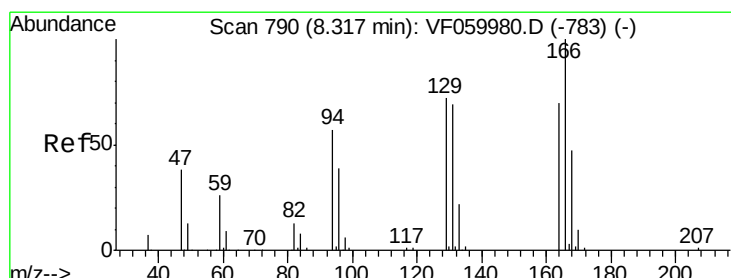
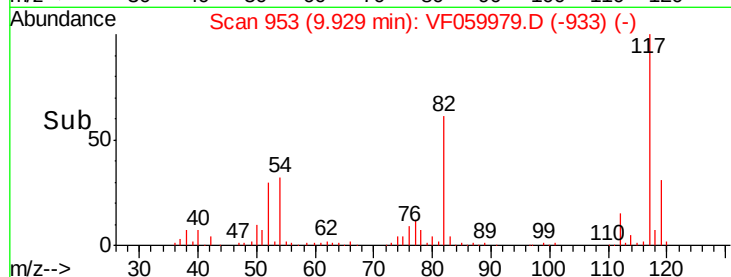
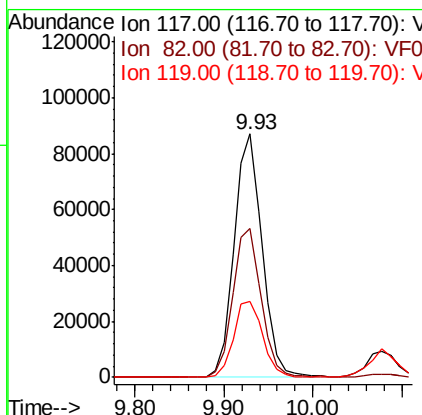
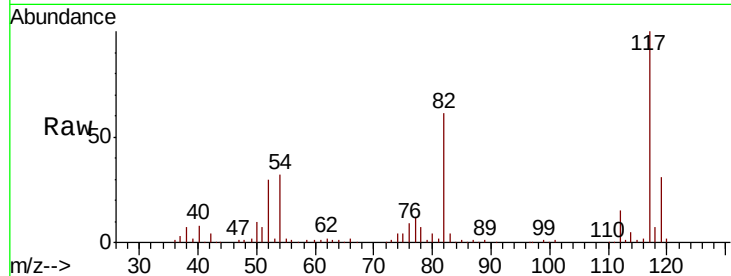
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.93 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	191057		
82	61.1	47.2	70.8	
119	31.2	26.1	39.1	

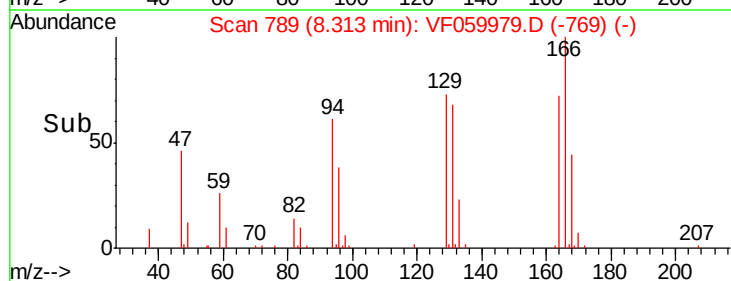
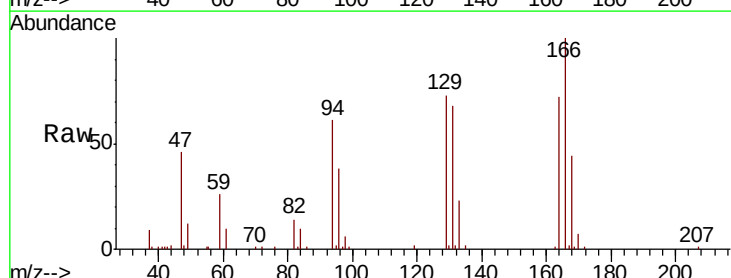
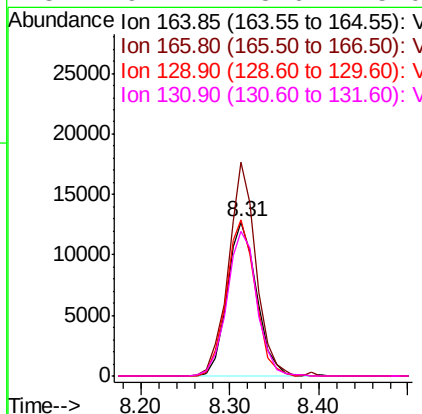
Manual Integrations
APPROVED

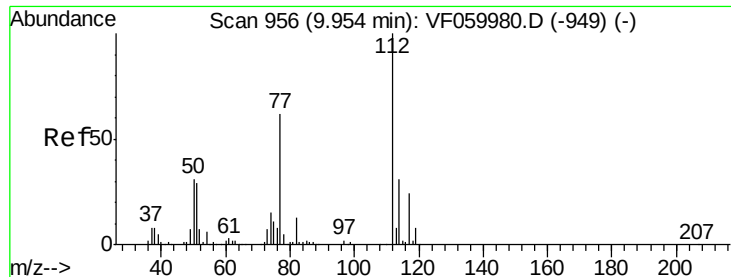
apatel
8/20/2018 11:47:47 AM



#64
Tetrachloroethene
Concen: 20.63 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	29591		
166	138.8	114.5	171.7	
129	101.2	82.3	123.5	
131	94.2	78.6	118.0	





#65

Chlorobenzene

Concen: 20.98 ug/l

RT: 9.95 min Scan# 955

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 78213

Ion Ratio Lower Upper

112 100

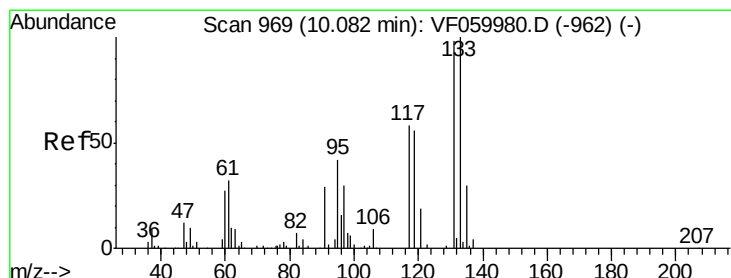
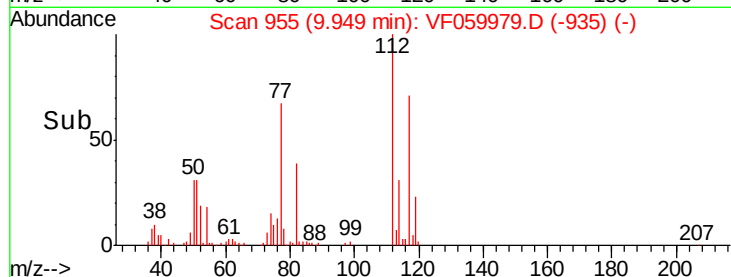
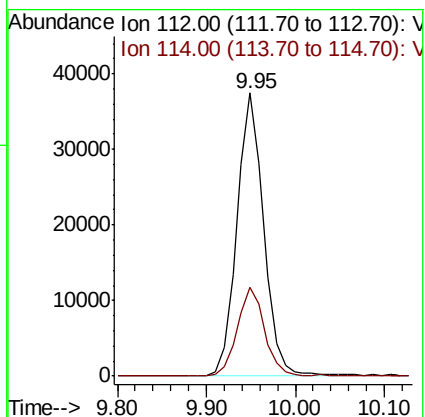
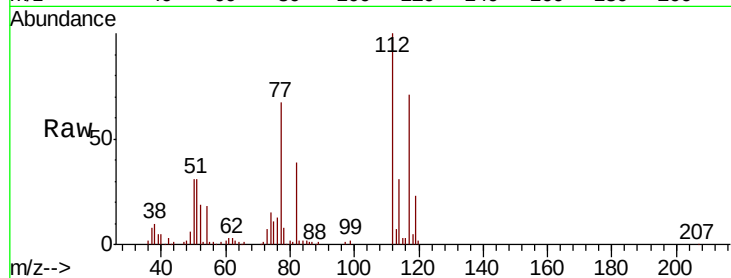
114 31.4 25.0 37.4

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 19.72 ug/l

RT: 10.08 min Scan# 968

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

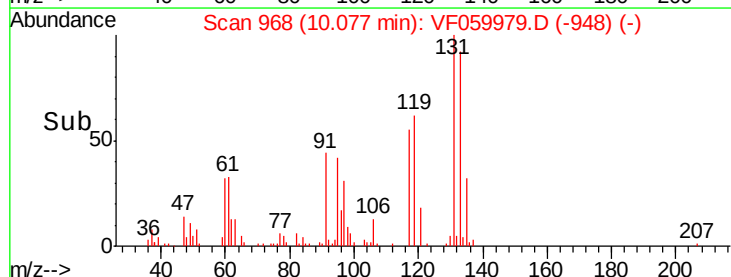
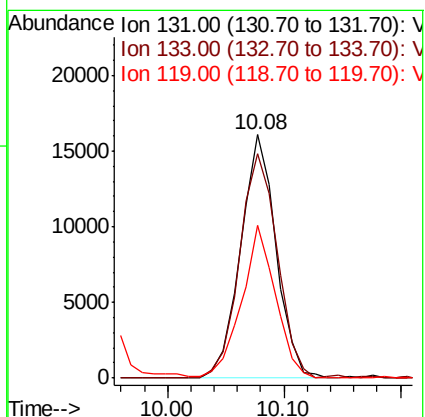
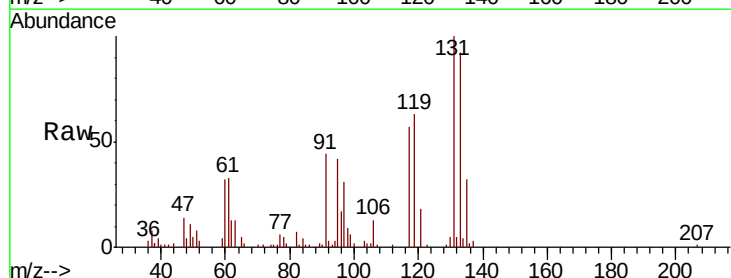
Tgt Ion:131 Resp: 33782

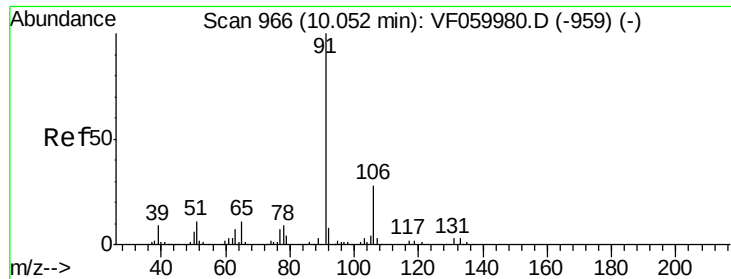
Ion Ratio Lower Upper

131 100

133 92.2 51.1 153.3

119 62.7 29.0 87.1





#67

Ethyl Benzene

Concen: 21.26 ug/l

RT: 10.05 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 142262

Ion Ratio Lower Upper

91 100

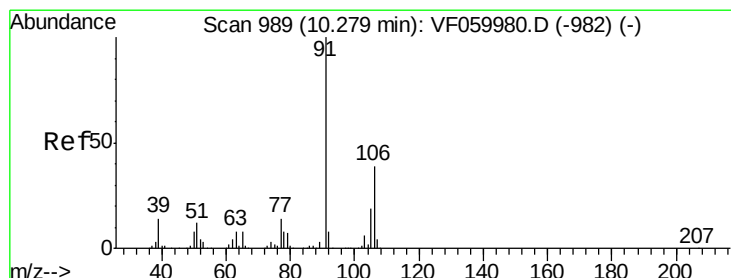
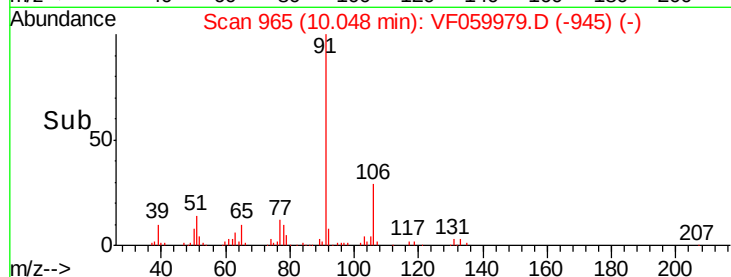
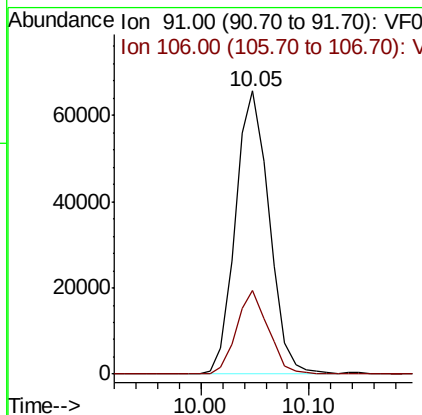
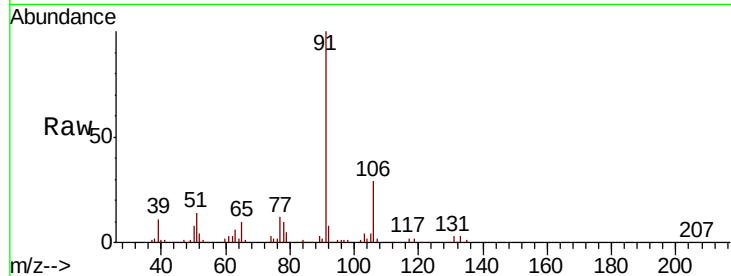
106 29.5 22.0 33.0

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#68

m/p-Xylenes

Concen: 44.20 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF059979.D

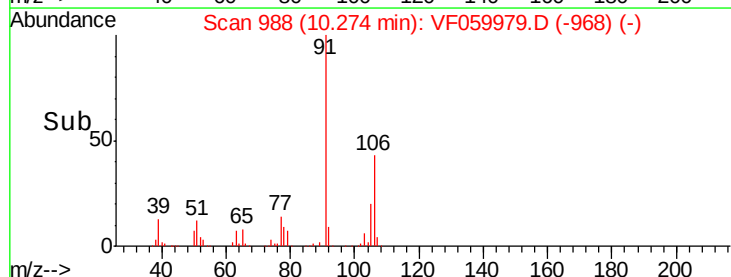
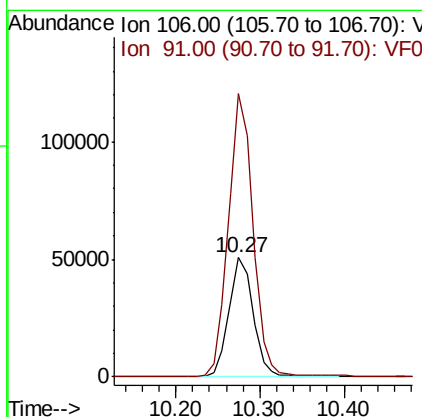
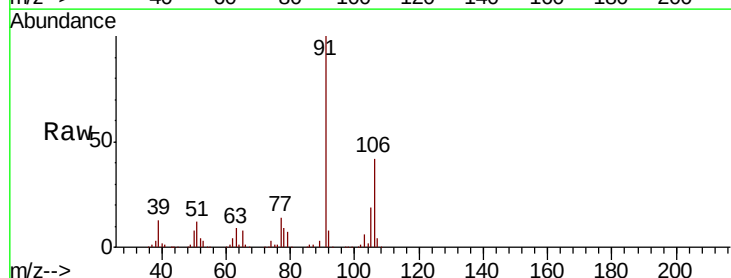
Acq: 17 Aug 2018 18:04

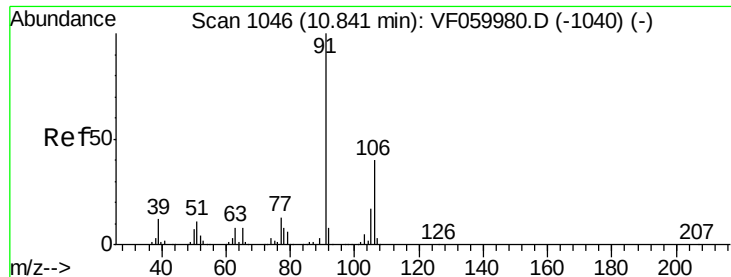
Tgt Ion: 106 Resp: 102946

Ion Ratio Lower Upper

106 100

91 237.0 203.5 305.3





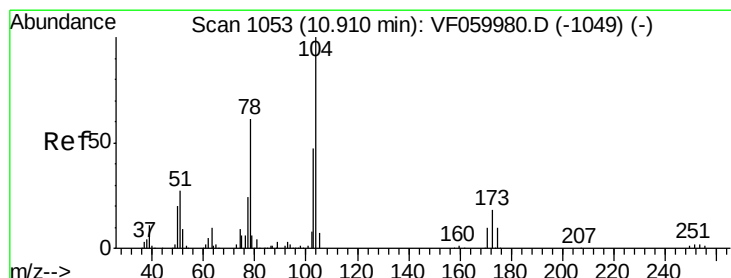
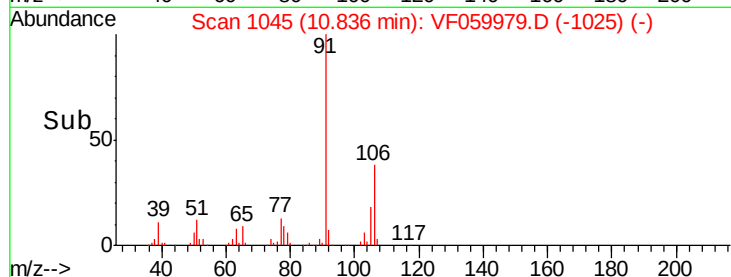
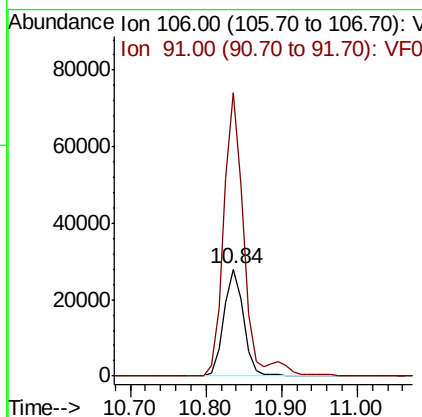
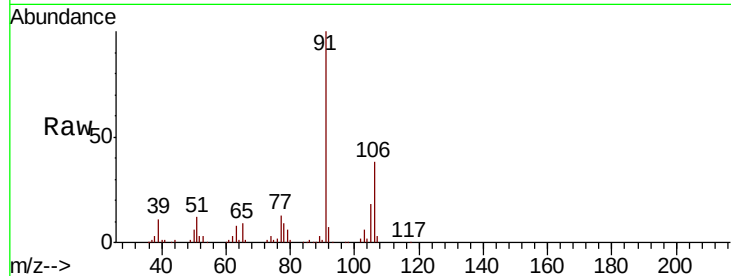
#69
o-Xylene
Concen: 21.27 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 50953
Ion Ratio Lower Upper
106 100
91 265.1 125.4 376.2

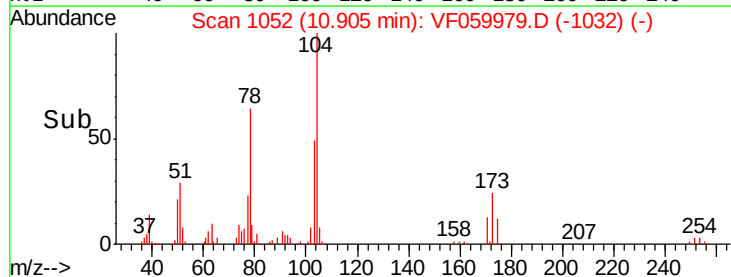
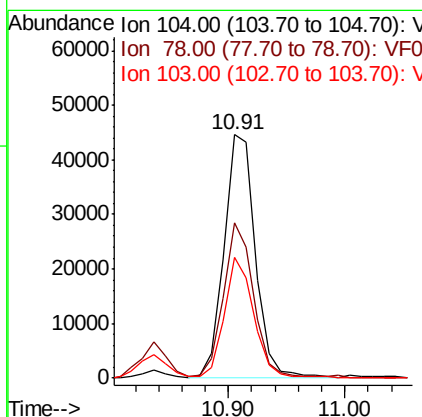
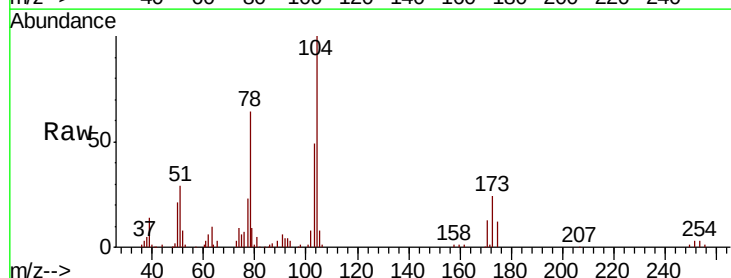
Manual Integrations
APPROVED

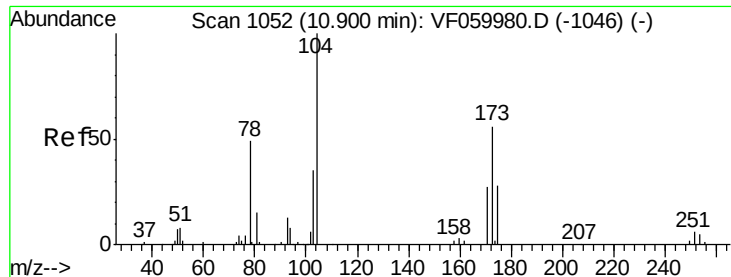
apatel
8/20/2018 11:47:47 AM



#70
Styrene
Concen: 21.80 ug/l
RT: 10.91 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion:104 Resp: 83168
Ion Ratio Lower Upper
104 100
78 64.0 49.0 73.6
103 49.4 38.2 57.4





#71

Bromoform

Concen: 21.04 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

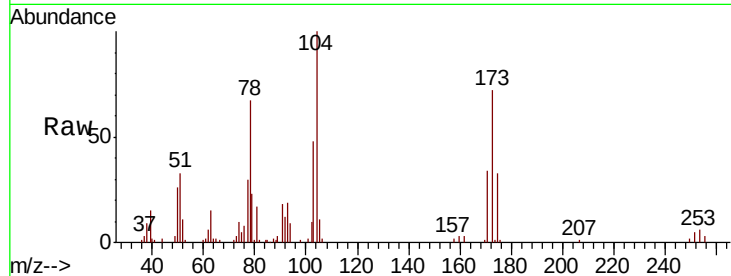
ClientSampleId :

VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
173	100		27139		
175	46.4	24.8	74.3		
254	0.0	0.0	0.0		

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM

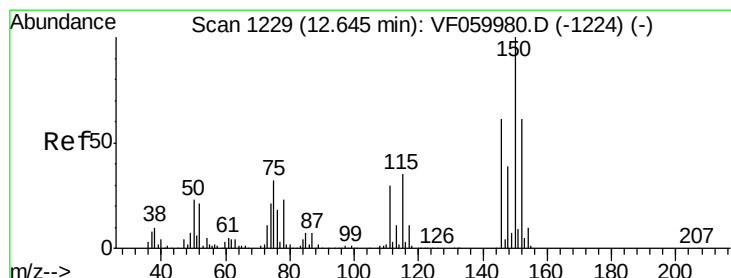
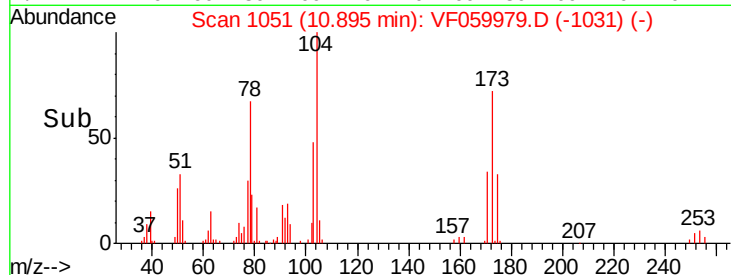
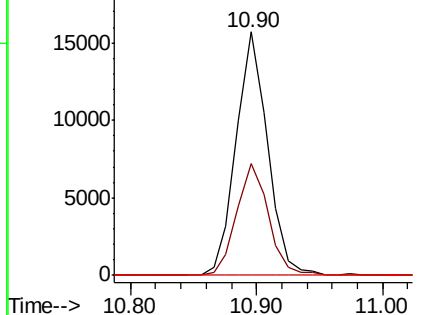


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

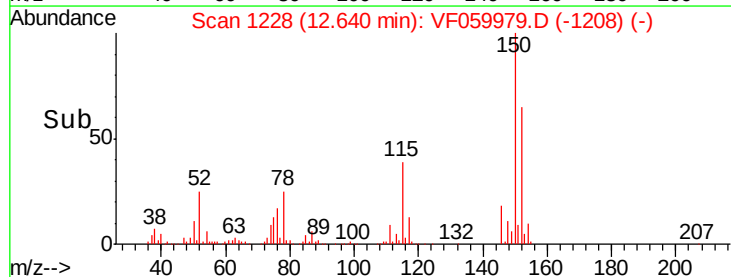
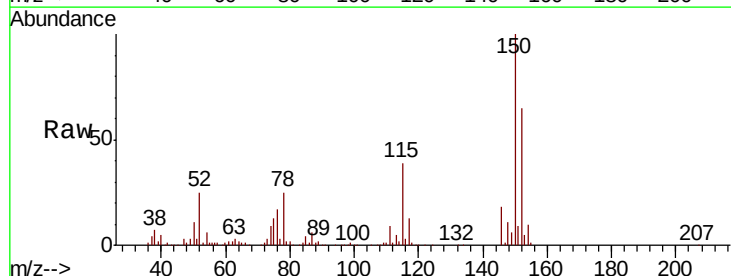
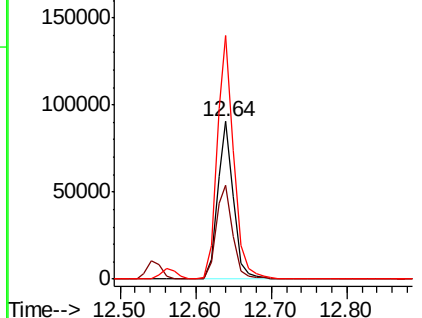
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100		133558		
115	60.0	29.1	87.3		
150	154.7	0.0	330.2		

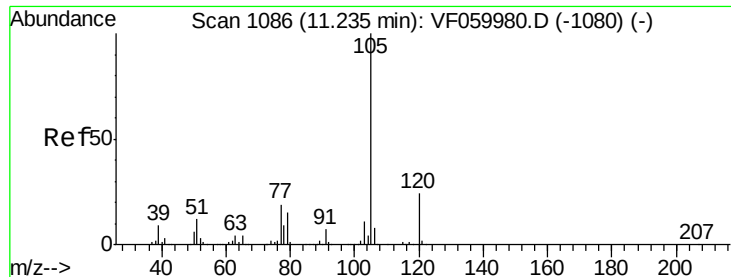
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.00 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 175690

Ion Ratio Lower Upper

105 100

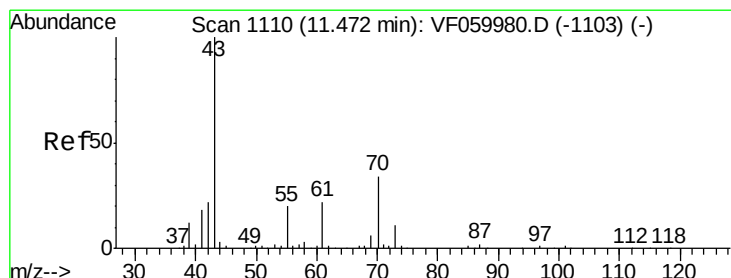
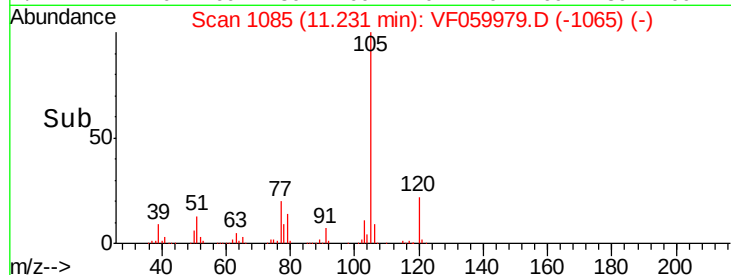
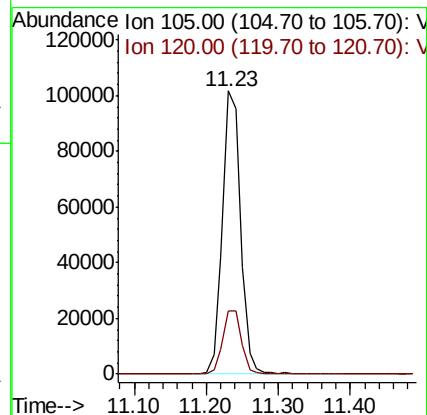
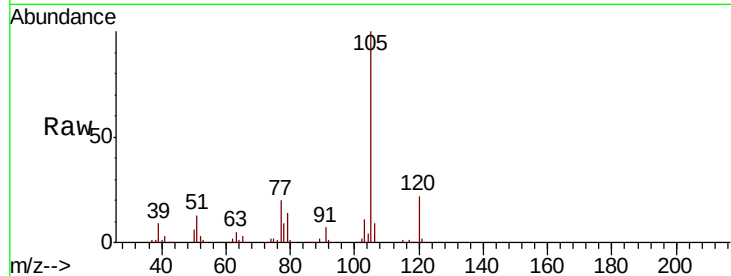
120 22.4 11.9 35.5

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#74

N-ethyl acetate

Concen: 20.87 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion: 43 Resp: 49301

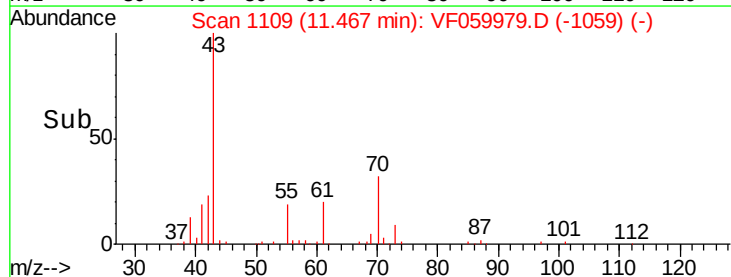
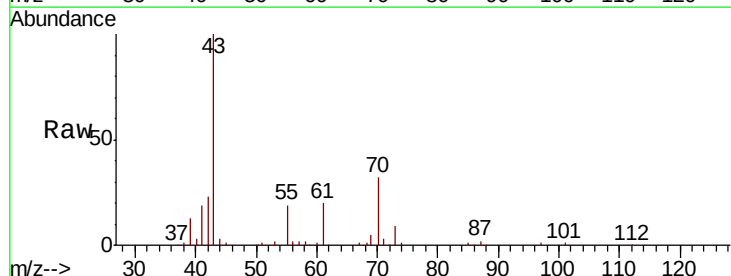
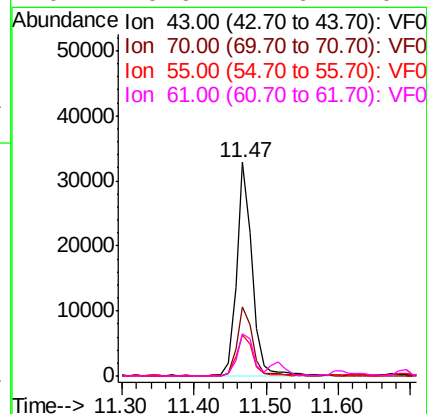
Ion Ratio Lower Upper

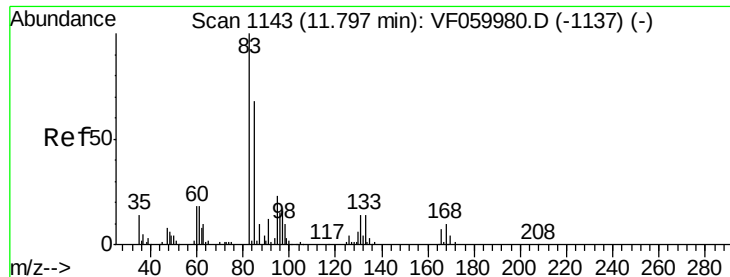
43 100

70 32.4 27.2 40.8

55 19.2 16.4 24.6

61 19.9 17.6 26.4





#75

1,1,2,2-Tetrachloroethane

Concen: 20.23 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

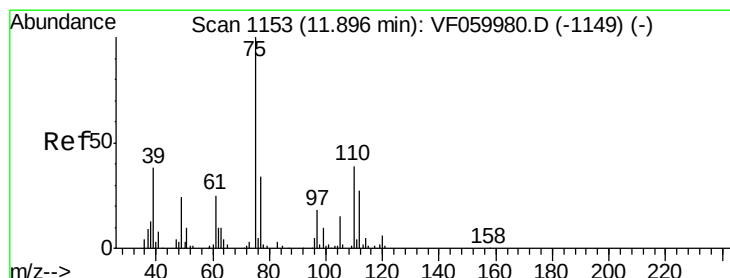
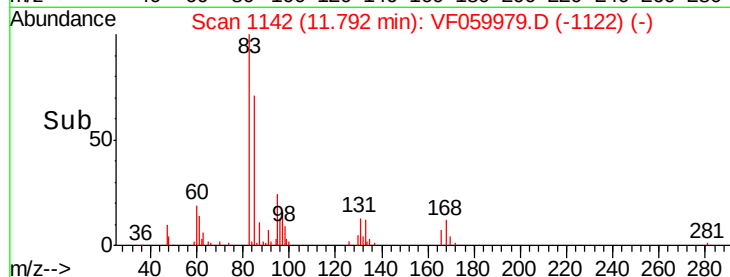
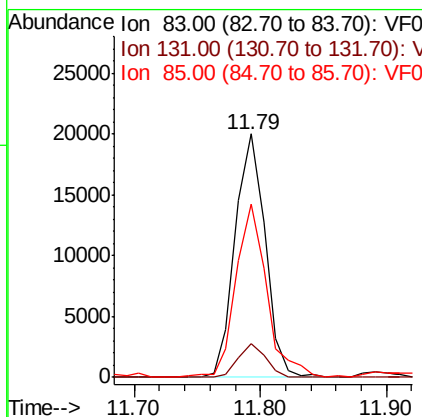
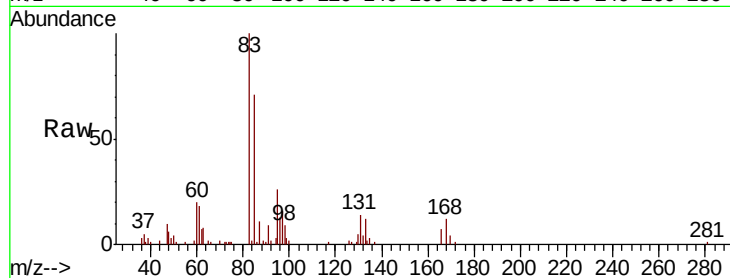
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	32960
Ion	Ratio	Lower	Upper
83	100		
131	13.8	7.2	21.6
85	69.6	34.1	102.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#76

1,2,3-Trichloropropane

Concen: 20.82 ug/l

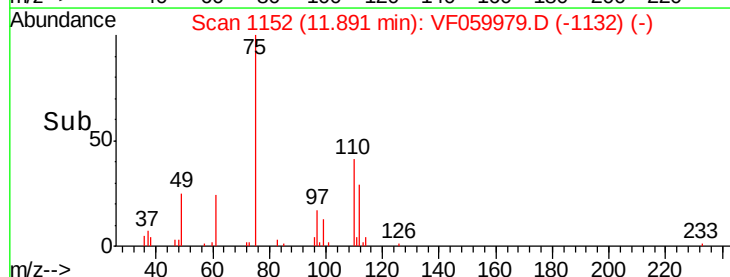
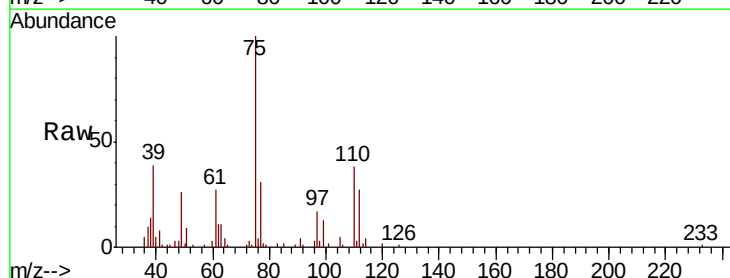
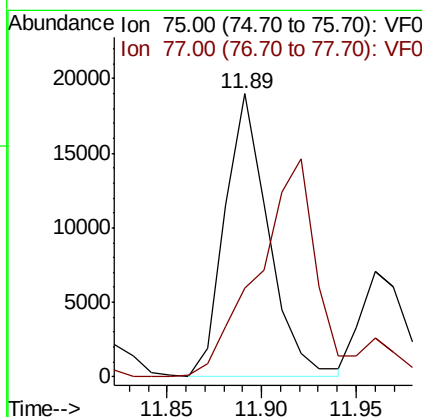
RT: 11.89 min Scan# 1152

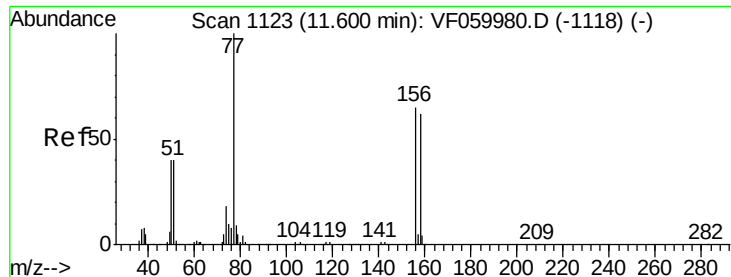
Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	75	Resp:	30316
Ion	Ratio	Lower	Upper
75	100		
77	31.3	17.1	51.3





#77

Bromobenzene

Concen: 21.31 ug/l

RT: 11.61 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

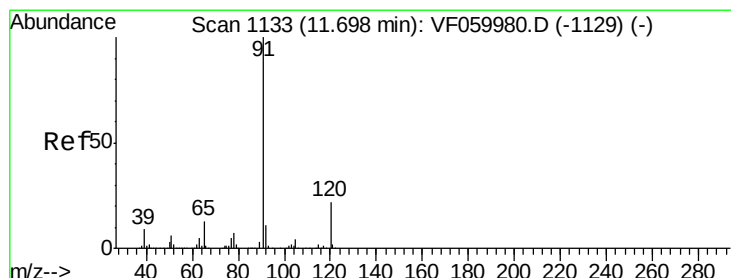
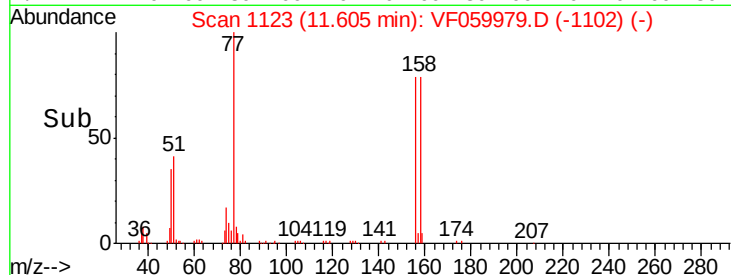
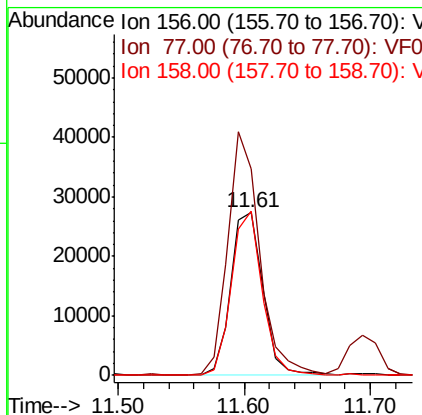
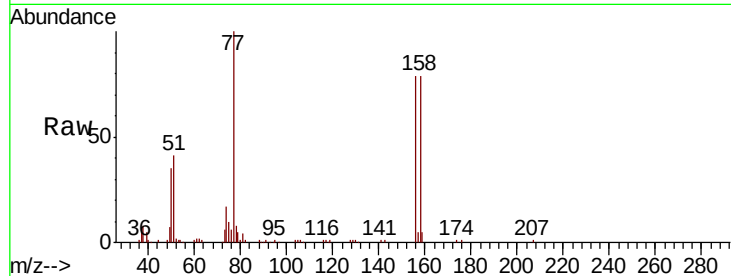
ClientSampleId :

VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	126.7	76.9	230.7	
158	100.5	47.7	143.1	

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#78

n-propylbenzene

Concen: 21.57 ug/l

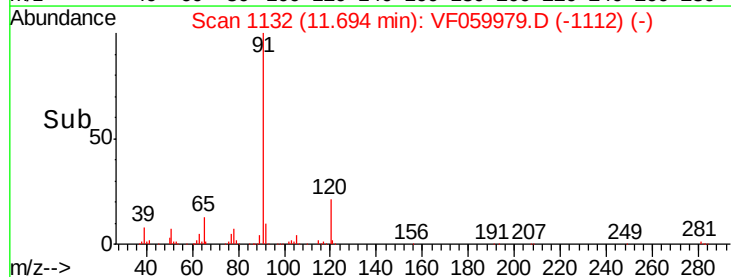
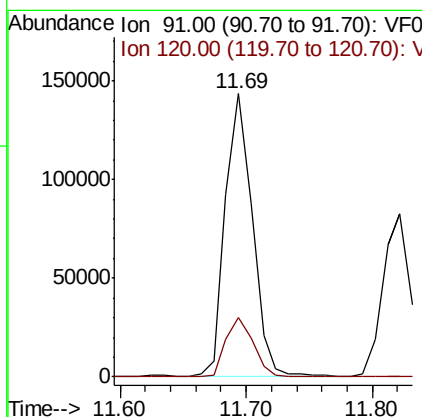
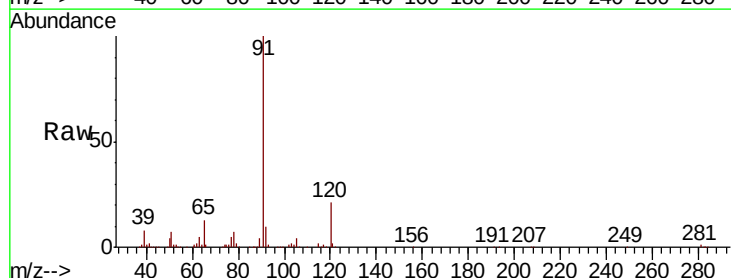
RT: 11.69 min Scan# 1132

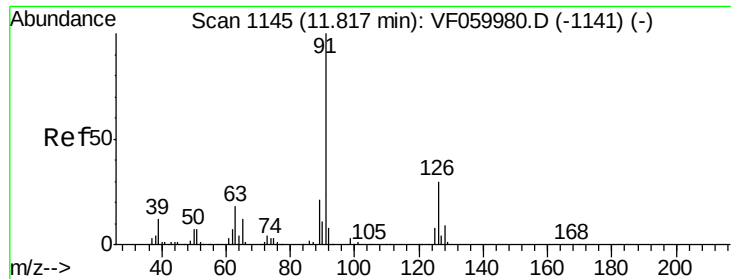
Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.1	11.0	33.0	





#79

2-Chlorotoluene

Concen: 20.88 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 126863

Ion Ratio Lower Upper

91 100

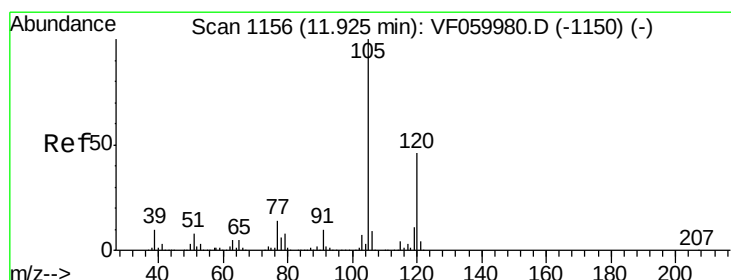
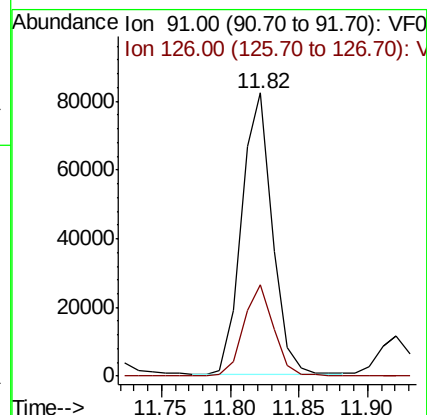
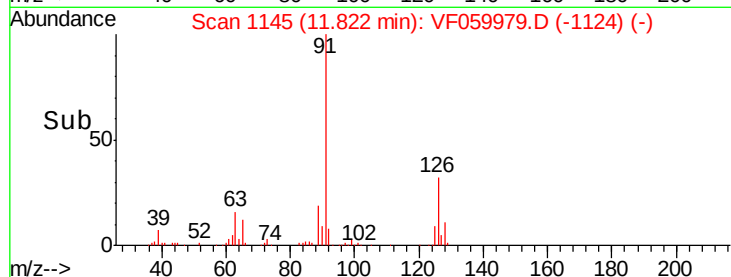
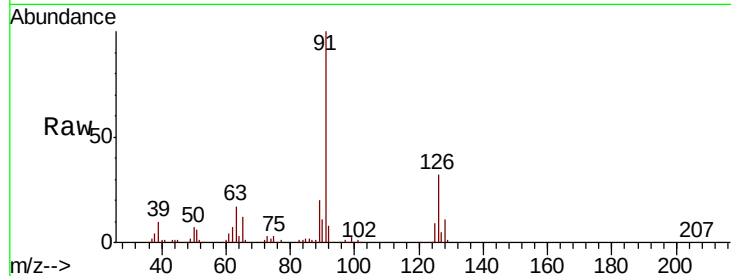
126 32.1 14.7 44.1

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.92 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VF059979.D

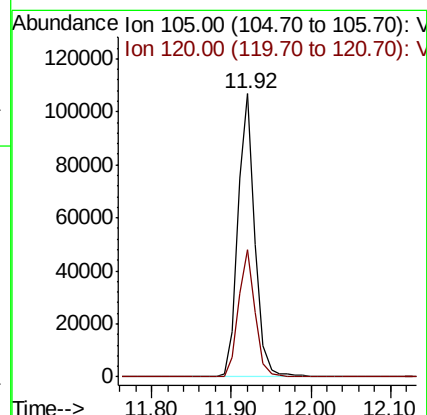
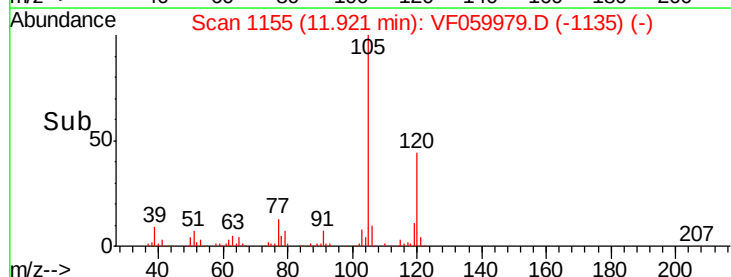
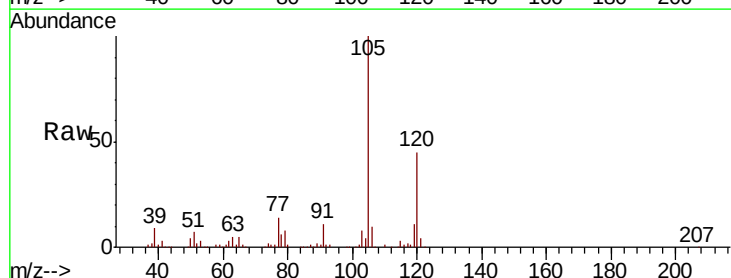
Acq: 17 Aug 2018 18:04

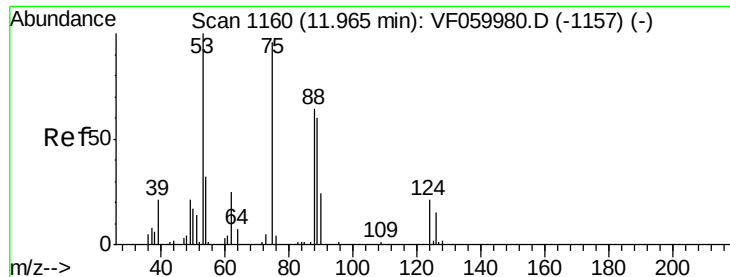
Tgt Ion: 105 Resp: 158513

Ion Ratio Lower Upper

105 100

120 44.8 22.9 68.7





#81

trans-1,4-Dichloro-2-butene

Concen: 14.80 ug/l m

RT: 11.96 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

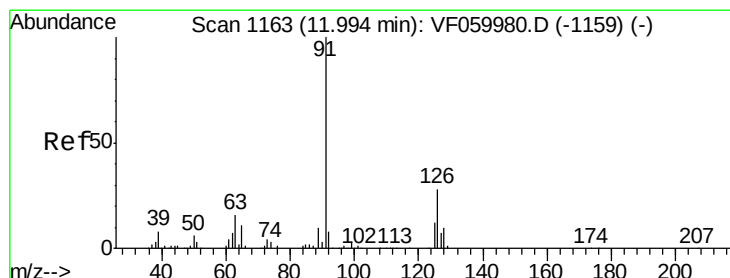
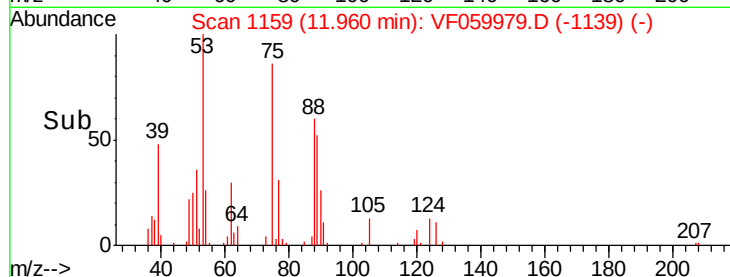
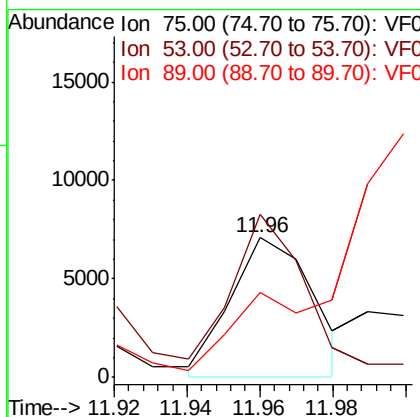
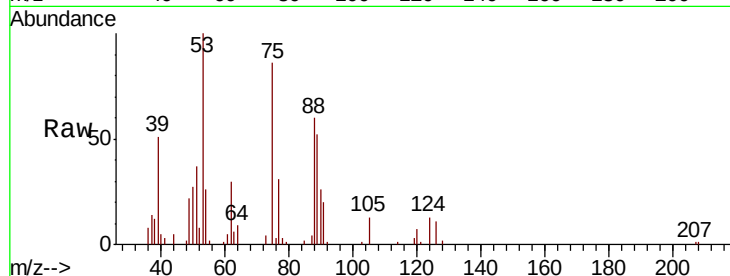
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	11109
Ion	Ratio	Lower	Upper
75	100		
53	116.9	87.4	131.0
89	60.5	52.8	79.2

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#82

4-Chlorotoluene

Concen: 21.37 ug/l

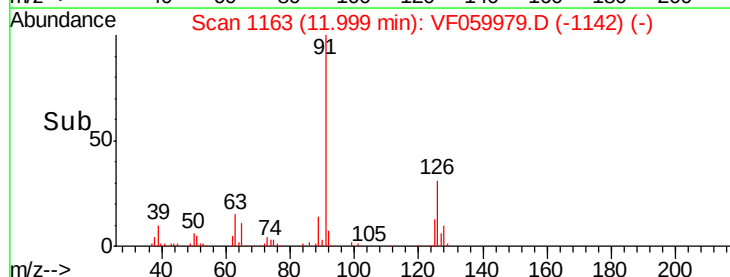
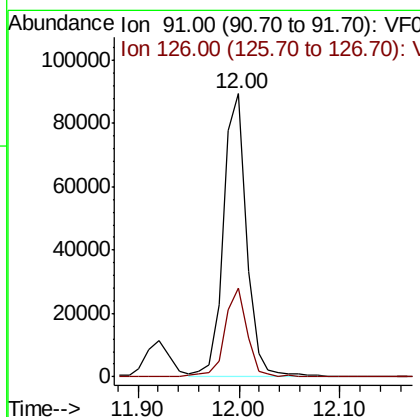
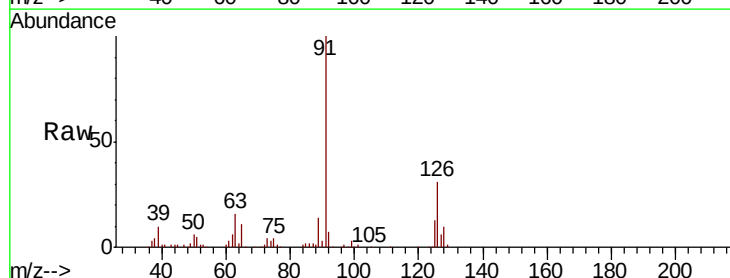
RT: 12.00 min Scan# 1163

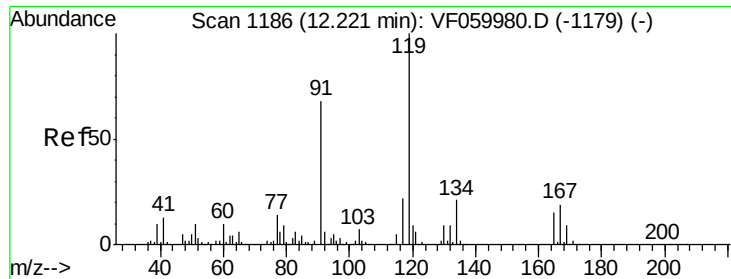
Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	91	Resp:	141332
Ion	Ratio	Lower	Upper
91	100		
126	31.2	14.1	42.4





#83

tert-Butylbenzene

Concen: 21.32 ug/l

RT: 12.22 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

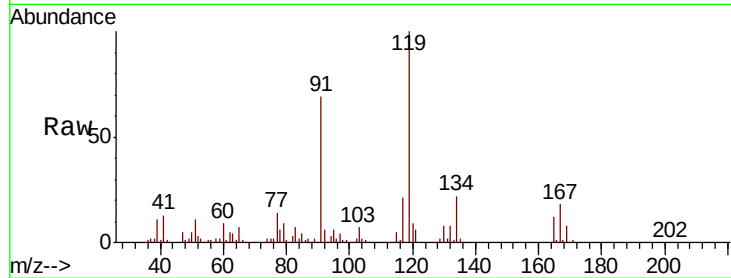
ClientSampleId :

VSTDIC020

Tot Ion:	119	Resp:	152344
Ion Ratio	Lower	Upper	
119	100		
91	68.7	34.1	102.2
134	22.4	10.5	31.6

Manual Integrations
APPROVED

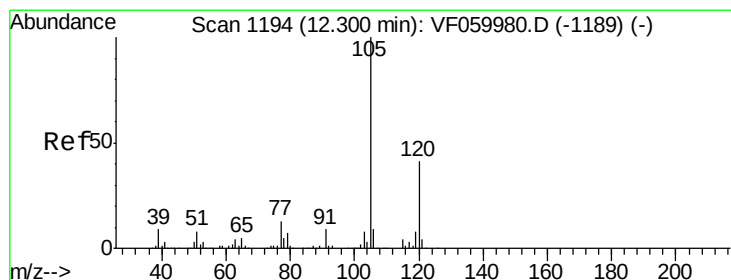
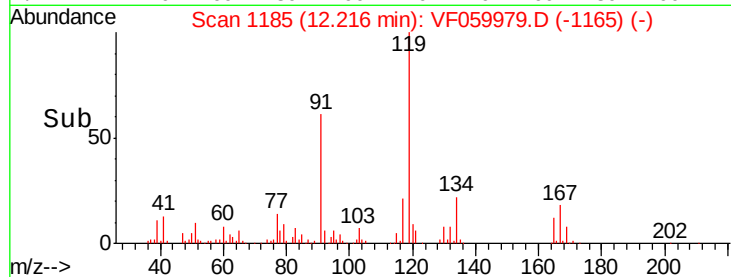
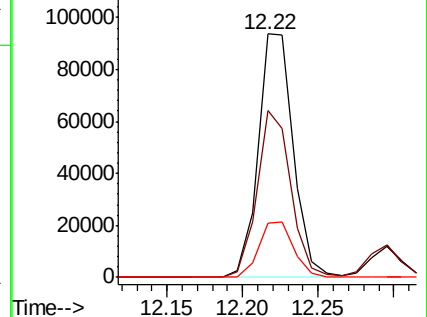
apatel
8/20/2018 11:47:47 AM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.65 ug/l

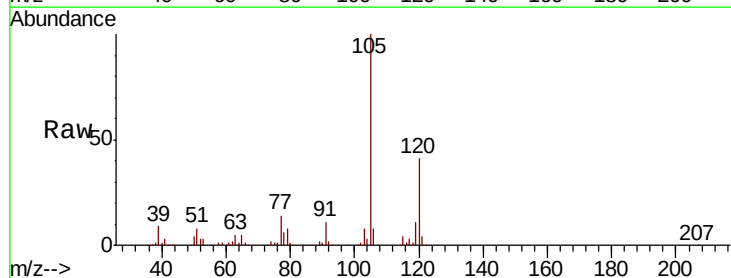
RT: 12.30 min Scan# 1193

Delta R.T. -0.00 min

Lab File: VF059979.D

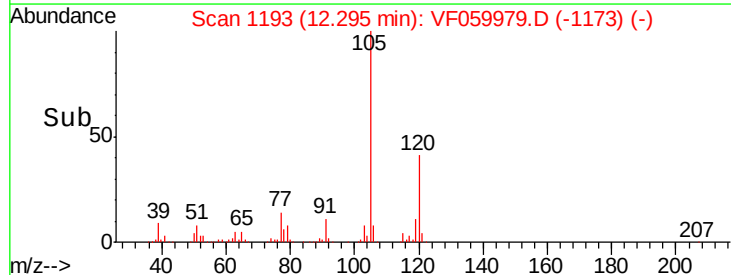
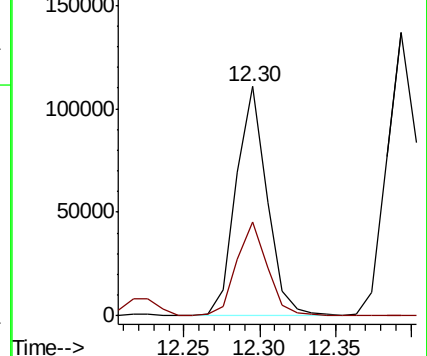
Acq: 17 Aug 2018 18:04

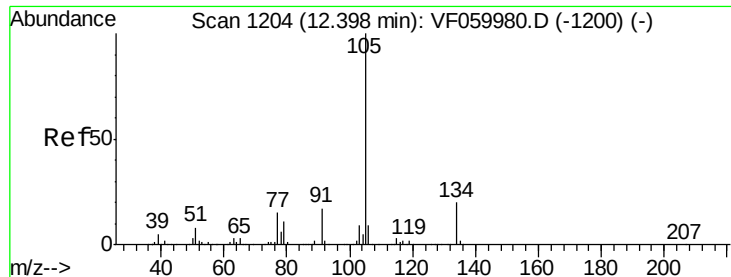
Tgt Ion:	105	Resp:	156813
Ion Ratio	Lower	Upper	
105	100		
120	40.8	20.9	62.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.00 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 196372

Ion Ratio Lower Upper

105 100

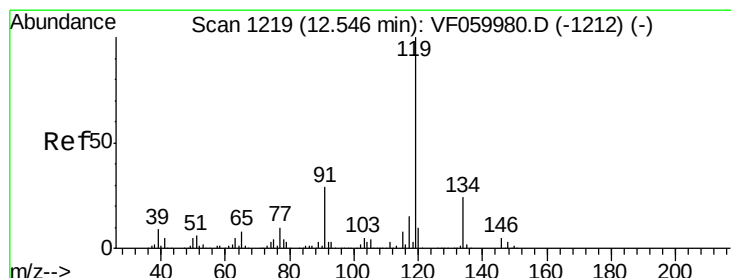
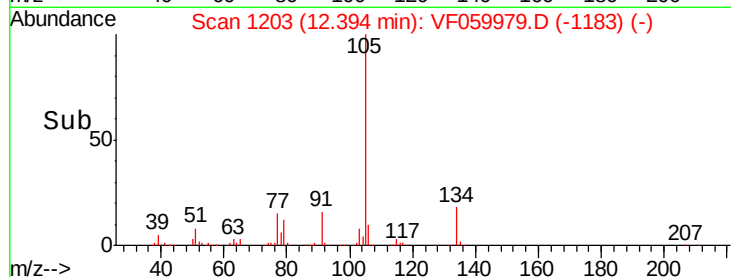
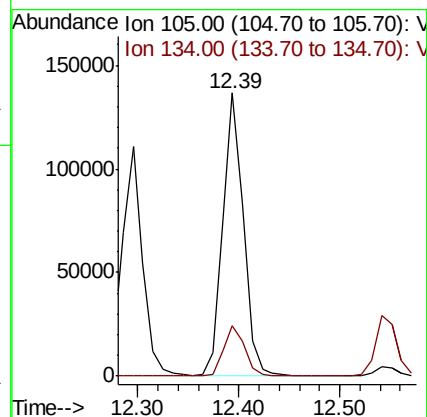
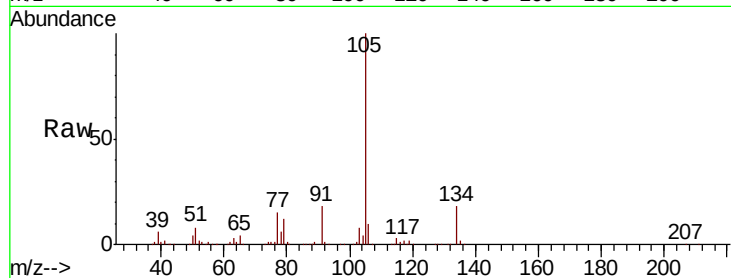
134 17.9 9.8 29.5

Manual Integrations

APPROVED

apatel

8/20/2018 11:47:47 AM



#86

p-Isopropyltoluene

Concen: 21.29 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

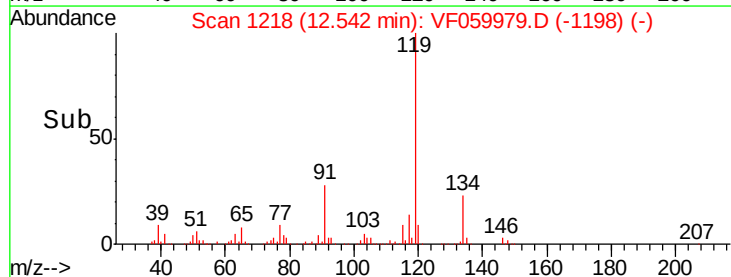
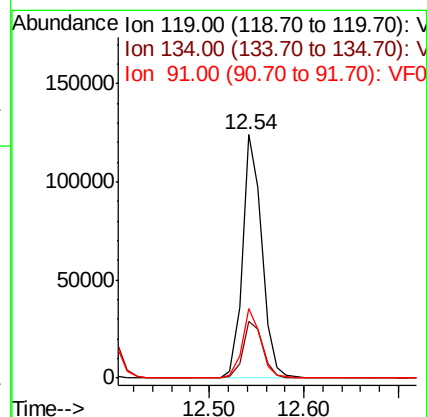
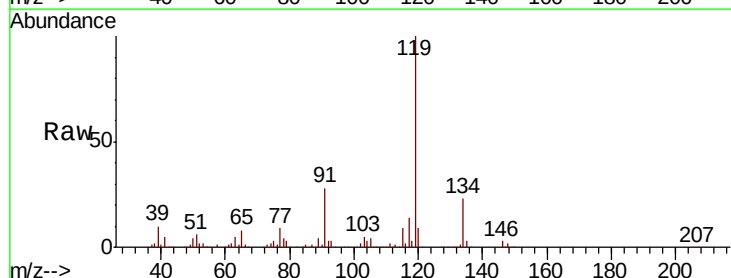
Tgt Ion:119 Resp: 175944

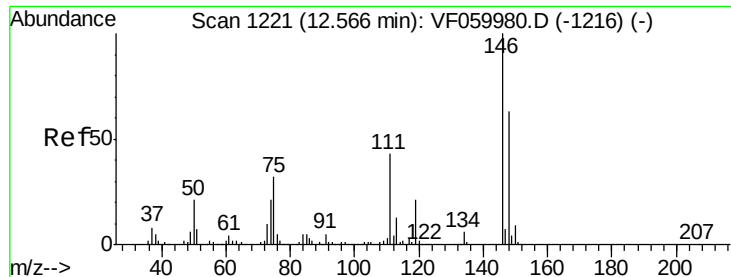
Ion Ratio Lower Upper

119 100

134 23.4 12.1 36.3

91 28.4 14.4 43.4





#87

1,3-Dichlorobenzene

Concen: 20.54 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

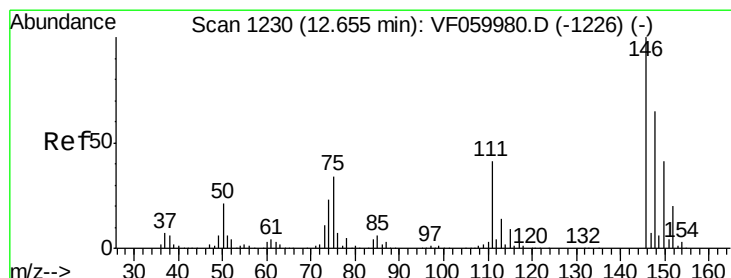
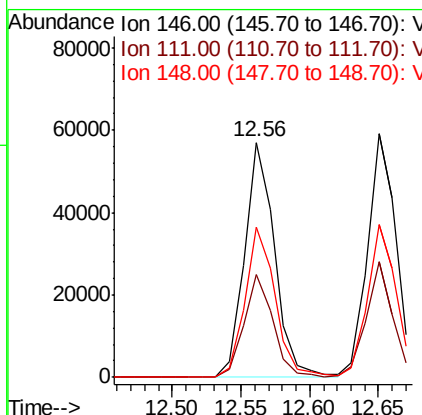
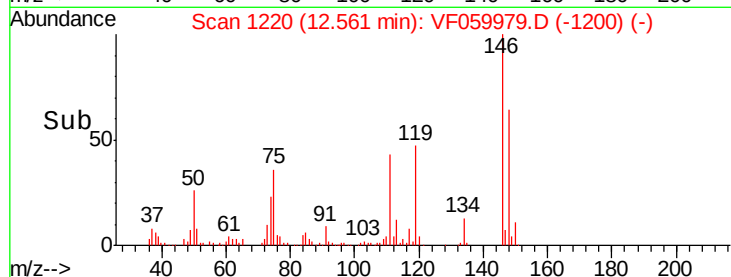
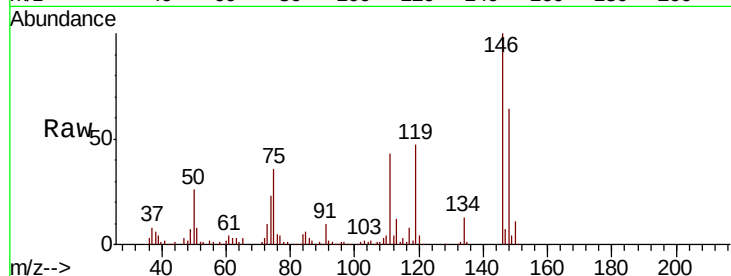
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	87495
Ion Ratio	Lower	Upper	
146	100		
111	43.5	21.3	63.7
148	63.8	31.6	95.0

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#88

1,4-Dichlorobenzene

Concen: 20.99 ug/l

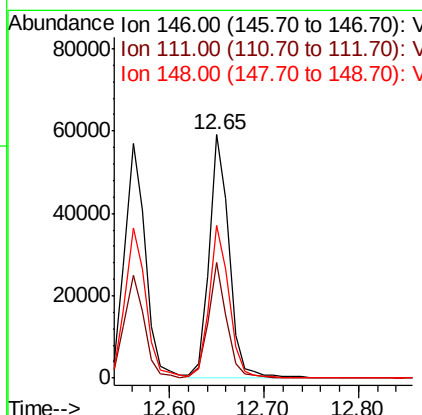
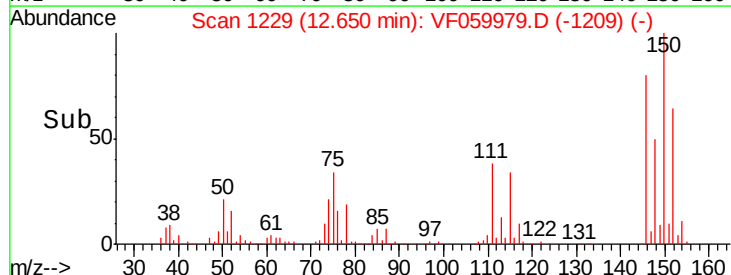
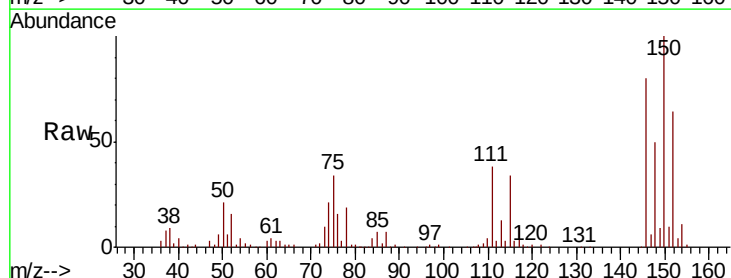
RT: 12.65 min Scan# 1229

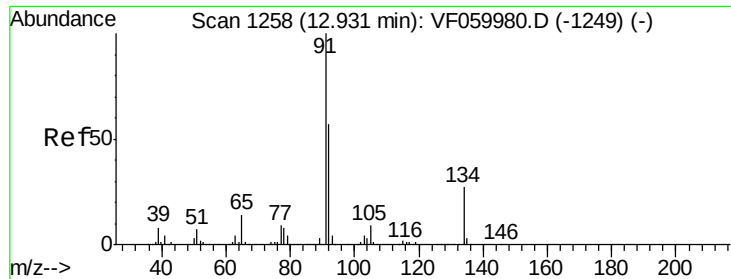
Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	146	Resp:	87562
Ion Ratio	Lower	Upper	
146	100		
111	47.6	20.3	61.0
148	62.8	32.6	97.8





#89

n-Butylbenzene

Concen: 21.10 ug/l

RT: 12.93 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Instrument :

MSVOA_F

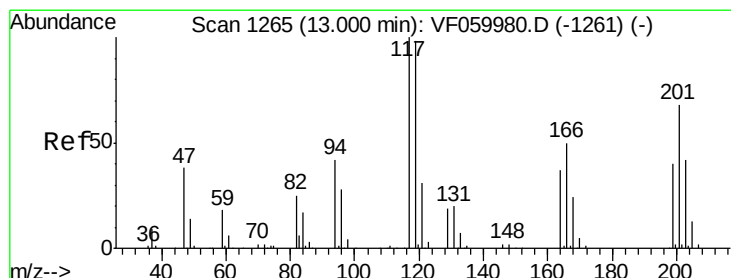
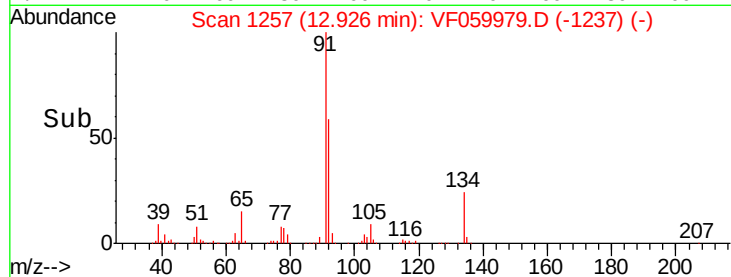
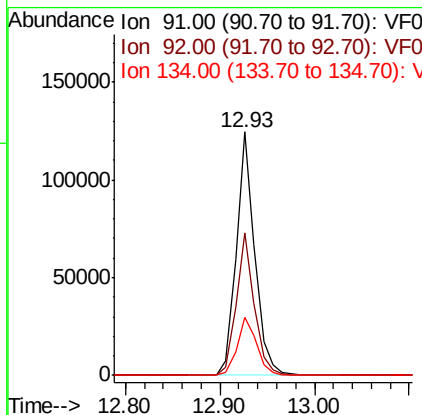
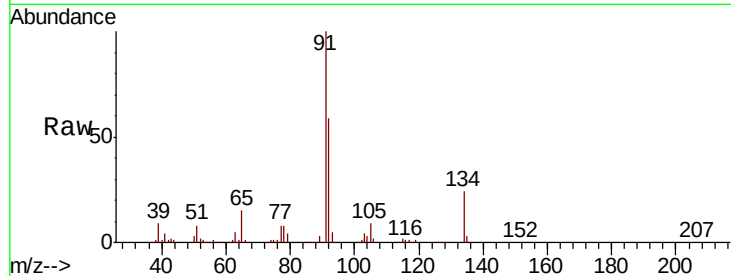
ClientSampleId :

VSTDIC020

Tot Ion:	91	Resp:	168600
Ion Ratio	Lower	Upper	
91	100		
92	58.6	28.7	86.3
134	24.0	13.3	39.9

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#90

Hexachloroethane

Concen: 21.44 ug/l

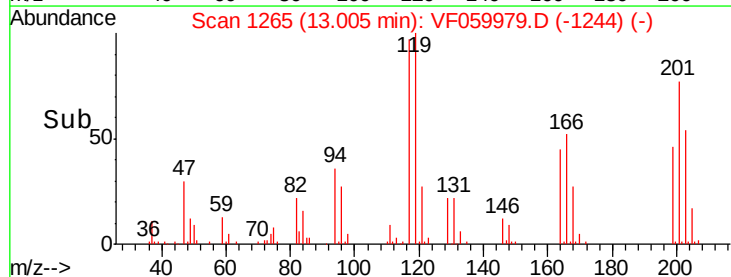
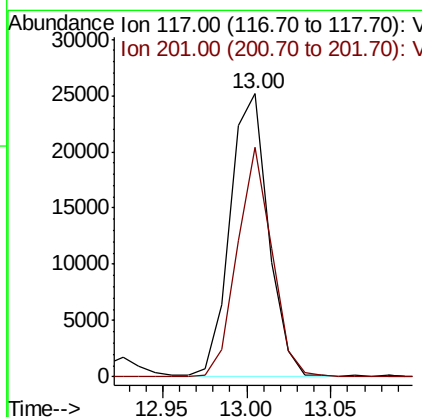
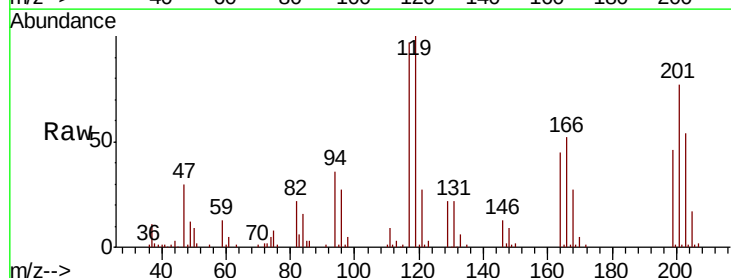
RT: 13.00 min Scan# 1265

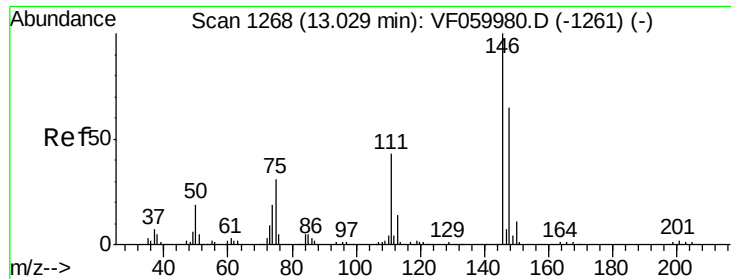
Delta R.T. 0.01 min

Lab File: VF059979.D

Acq: 17 Aug 2018 18:04

Tgt Ion:	117	Resp:	39874
Ion Ratio	Lower	Upper	
117	100		
201	81.0	34.5	103.5





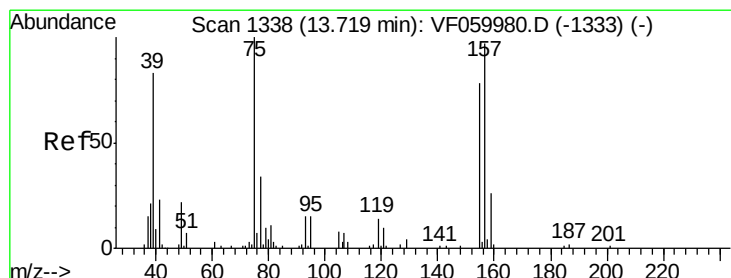
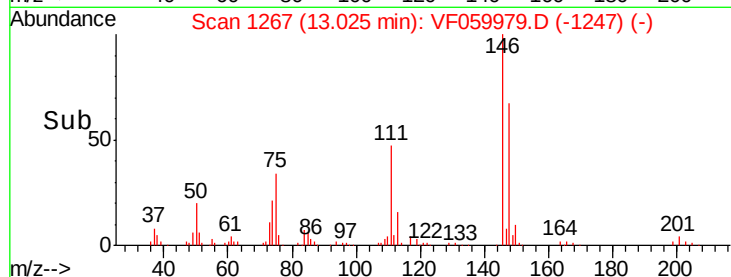
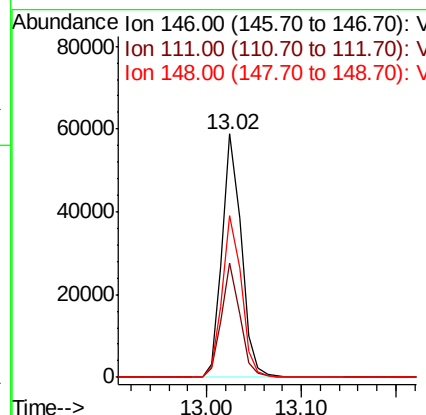
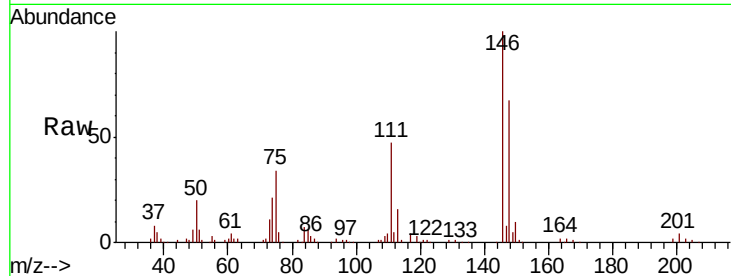
#91
1,2-Dichlorobenzene
Concen: 20.45 ug/l
RT: 13.02 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.0	21.4	64.3
148	66.5	32.5	97.4

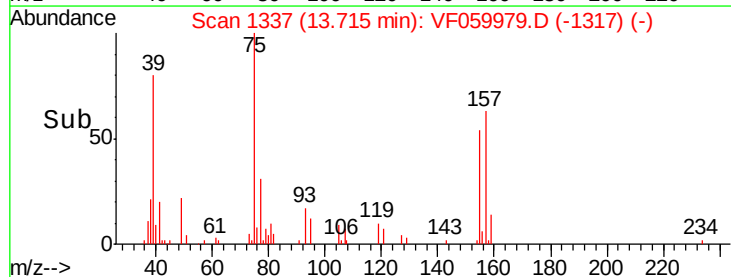
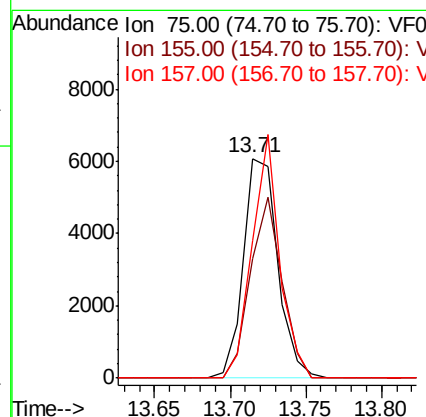
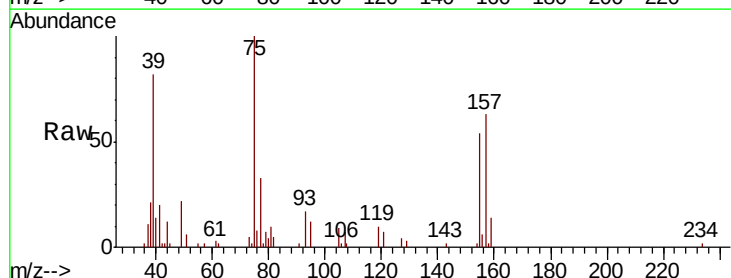
Manual Integrations
APPROVED

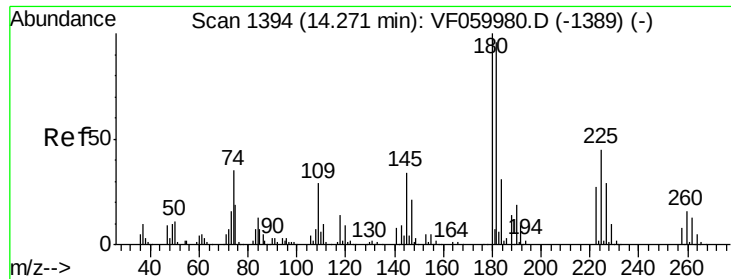
apatel
8/20/2018 11:47:47 AM



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.89 ug/l
RT: 13.71 min Scan# 1337
Delta R.T. -0.00 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	54.3	38.9	116.7
157	62.8	50.8	152.5





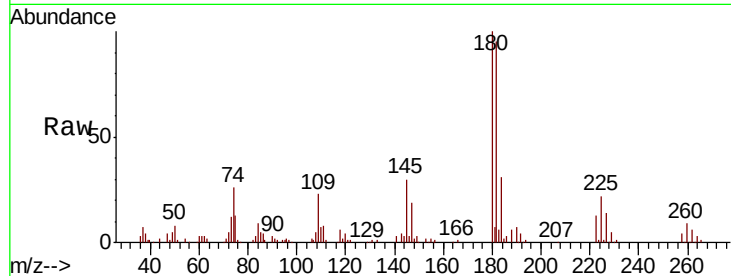
#93
 1,2,4-Trichlorobenzene
 Concen: 20.55 ug/l
 RT: 14.28 min Scan# 1394
 Delta R.T. 0.01 min
 Lab File: VF059979.D
 Acq: 17 Aug 2018 18:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	68353		
182	94.9		47.9	143.6
145	29.7		17.2	51.5

Manual Integrations
 APPROVED

apatel
 8/20/2018 11:47:47 AM

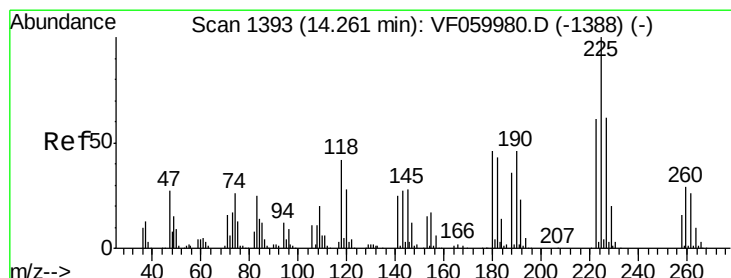
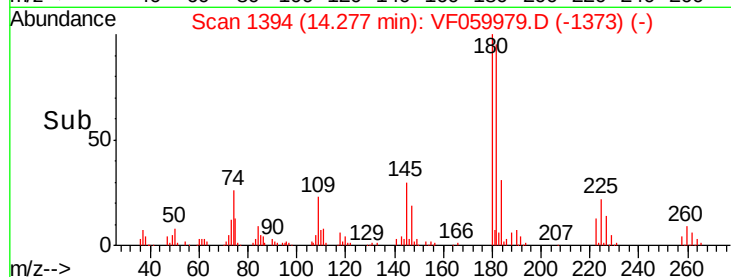
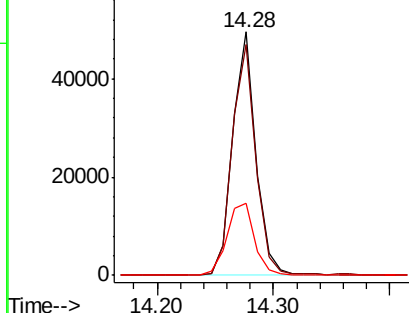


Abundance

Ion 180.00 (179.70 to 180.70): V

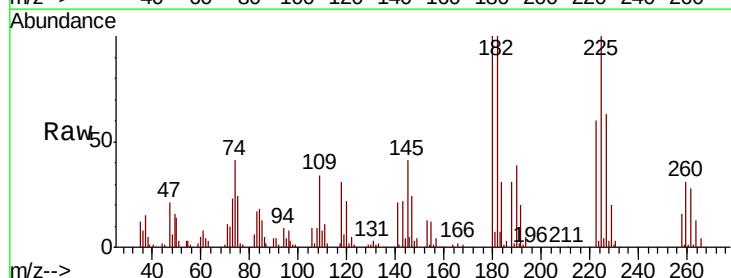
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 21.96 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VF059979.D
 Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	48233		
223	59.8		29.1	87.4
227	63.4		29.8	89.5

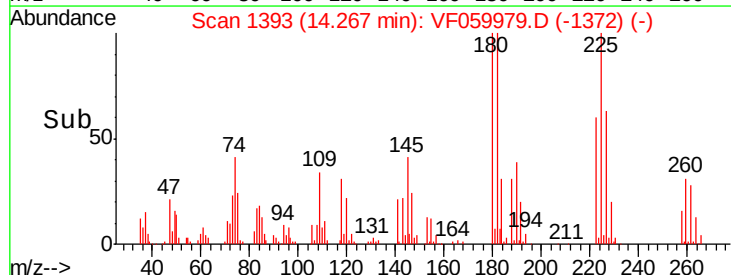
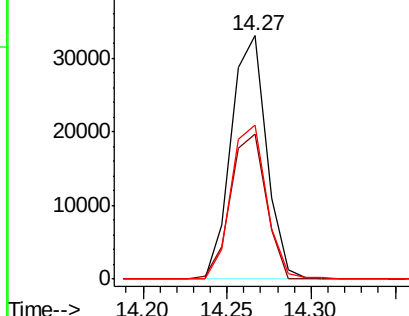


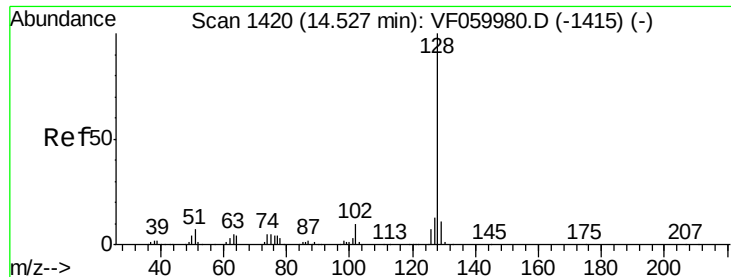
Abundance

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





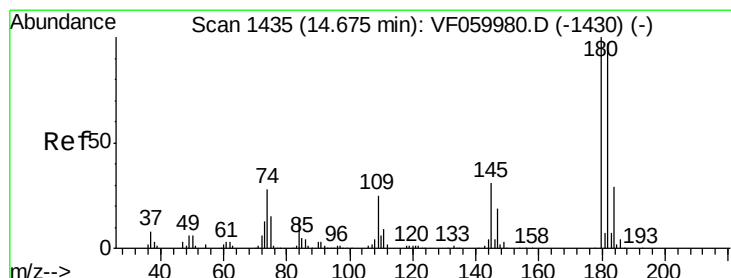
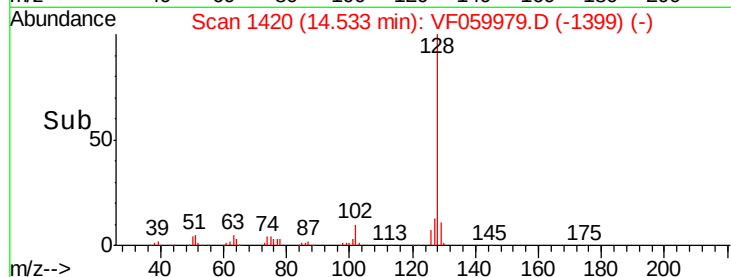
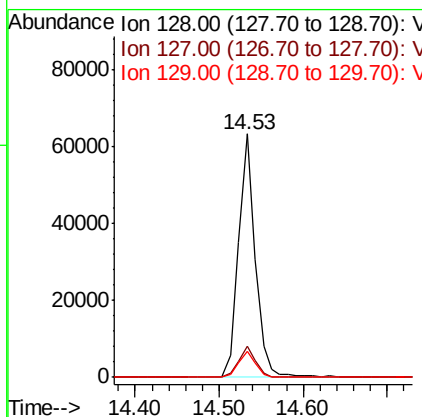
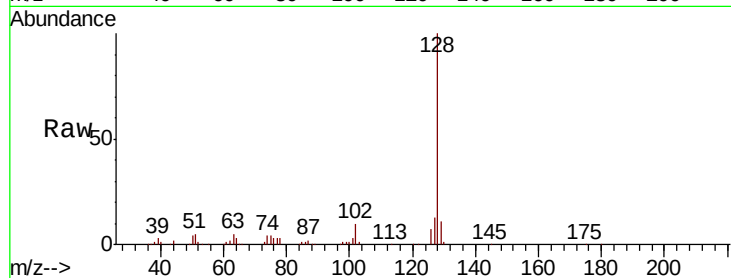
#95
Naphthalene
Concen: 18.08 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. 0.01 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	9.0	13.4

Manual Integrations
APPROVED

apatel
8/20/2018 11:47:47 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.30 ug/l
RT: 14.68 min Scan# 1435
Delta R.T. 0.01 min
Lab File: VF059979.D
Acq: 17 Aug 2018 18:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	48.5	145.5
145	29.8	15.7	47.1

