

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072318\
 Data File : VF059610.D
 Acq On : 23 Jul 2018 12:55
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 81 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 7/24/2018 1:13:21 PM

Quant Time: Jul 23 16:11:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 23 14:43:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	249590	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	339601	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	334721	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	223143	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	21499	5.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.96%	
35) Dibromofluoromethane	4.29	113	15653	5.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.50%	
50) Toluene-d8	7.70	98	37509	5.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.00%	
62) 4-Bromofluorobenzene	11.51	95	21866	5.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	17996	5.78	ug/l	77
3) Chloromethane	1.08	50	7621	4.59	ug/l	95
4) Vinyl Chloride	1.14	62	9345	5.51	ug/l #	82
5) Bromomethane	1.34	94	8400	6.84	ug/l	98
6) Chloroethane	1.43	64	5844	6.61	ug/l	95
7) Trichlorofluoromethane	1.49	101	22618m	5.77	ug/l	
8) Diethyl Ether	1.69	74	2957	3.81	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.90	101	13129	7.10	ug/l	92
10) Methyl Iodide	1.96	142	19738	6.16	ug/l #	78
11) Tert butyl alcohol	2.69	59	5198	29.94	ug/l #	94
12) 1,1-Dichloroethene	1.85	96	9953	5.30	ug/l	86
13) Acrolein	2.08	56	2444	26.13	ug/l	97
14) Allyl chloride	2.19	41	19372	7.82	ug/l #	89
15) Acrylonitrile	3.06	53	6746	21.69	ug/l #	72
16) Acetone	2.33	43	21813	33.89	ug/l	99
17) Carbon Disulfide	1.86	76	25024	5.84	ug/l #	92
18) Methyl Acetate	2.44	43	8876m	6.87	ug/l	
19) Methyl tert-butyl Ether	2.53	73	30550	5.41	ug/l #	92
20) Methylene Chloride	2.27	84	15593m	7.28	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	10539	6.07	ug/l	85
22) Diisopropyl ether	2.92	45	31707	4.95	ug/l #	95
23) Vinyl Acetate	3.33	43	76874	20.85	ug/l #	91
24) 1,1-Dichloroethane	2.99	63	23102	5.69	ug/l	97
25) 2-Butanone	4.50	43	21868	25.42	ug/l	97
26) 2,2-Dichloropropane	3.76	77	19642	6.98	ug/l	99
27) cis-1,2-Dichloroethene	3.63	96	10544	5.24	ug/l	94
28) Bromochloromethane	3.88	49	9189	5.37	ug/l	91
29) Tetrahydrofuran	4.25	42	8962	23.10	ug/l #	92
30) Chloroform	4.04	83	30967	5.32	ug/l	97
31) Cyclohexane	3.86	56	12471	5.81	ug/l	99
32) 1,1,1-Trichloroethane	4.27	97	27934	6.96	ug/l	89
36) 1,1-Dichloropropene	4.45	75	17659	5.18	ug/l #	86
37) Ethyl Acetate	4.29	43	7506	3.82	ug/l #	71
38) Carbon Tetrachloride	4.16	117	28196	6.65	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072318\
 Data File : VF059610.D
 Acq On : 23 Jul 2018 12:55
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 81 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 7/24/2018 1:13:21 PM

Quant Time: Jul 23 16:11:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 23 14:43:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	14385	5.47	ug/l	92
40) Benzene	4.80	78	34464	5.27	ug/l	93
41) Methacrylonitrile	4.91	41	4013	4.16	ug/l #	68
42) 1,2-Dichloroethane	5.11	62	23903	5.53	ug/l	98
43) Isopropyl Acetate	7.10	43	9701	4.13	ug/l #	96
44) Trichloroethene	5.67	130	13189	5.37	ug/l	90
45) 1,2-Dichloropropane	6.40	63	8874	4.90	ug/l	95
46) Dibromomethane	6.25	93	7130	4.34	ug/l	84
47) Bromodichloromethane	6.54	83	22759	5.27	ug/l #	95
48) Methyl methacrylate	6.88	41	7316	4.38	ug/l #	90
49) 1,4-Dioxane	6.86	88	1403	182.02	ug/l #	74
51) 4-Methyl-2-Pentanone	8.40	43	38756	23.52	ug/l	93
52) Toluene	7.78	92	27303	5.70	ug/l	91
53) t-1,3-Dichloropropene	8.42	75	19240	4.92	ug/l	95
54) cis-1,3-Dichloropropene	7.45	75	19062	4.90	ug/l	92
55) 1,1,2-Trichloroethane	8.63	97	9222	5.07	ug/l #	85
56) Ethyl methacrylate	8.75	69	10032	4.51	ug/l #	75
57) 1,3-Dichloropropane	9.00	76	16106	5.00	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.77	63	5536	27.05	ug/l	100
59) 2-Hexanone	9.63	43	32021	25.45	ug/l	93
60) Dibromochloromethane	8.86	129	15398	4.96	ug/l	91
61) 1,2-Dibromoethane	9.13	107	9262	4.09	ug/l #	79
64) Tetrachloroethene	8.30	164	13879	5.57	ug/l	92
65) Chlorobenzene	9.93	112	34753	5.51	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.06	131	15807	5.50	ug/l	89
67) Ethyl Benzene	10.03	91	62925	5.62	ug/l	100
68) m/p-Xylenes	10.26	106	40085	10.20	ug/l	88
69) o-Xylene	10.83	106	21425	5.07	ug/l	77
70) Styrene	10.90	104	31820	4.91	ug/l	98
71) Bromoform	10.88	173	10378	5.33	ug/l	76
73) Isopropylbenzene	11.23	105	68549	4.88	ug/l	98
74) N-amyl acetate	11.46	43	15147	3.51	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.79	83	13315	4.50	ug/l	94
76) 1,2,3-Trichloropropane	11.89	75	11490	4.74	ug/l	88
77) Bromobenzene	11.59	156	19501	5.01	ug/l	93
78) n-propylbenzene	11.68	91	88355	5.44	ug/l	92
79) 2-Chlorotoluene	11.81	91	52783	5.30	ug/l	98
80) 1,3,5-Trimethylbenzene	11.91	105	64104	5.40	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.95	75	4074m	3.52	ug/l	
82) 4-Chlorotoluene	11.98	91	59331	5.36	ug/l	95
83) tert-Butylbenzene	12.21	119	63534	5.56	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	66647	5.44	ug/l	98
85) sec-Butylbenzene	12.39	105	82927	5.68	ug/l	96
86) p-Isopropyltoluene	12.54	119	68173	5.33	ug/l	97
87) 1,3-Dichlorobenzene	12.56	146	36615	5.42	ug/l	96
88) 1,4-Dichlorobenzene	12.64	146	35801	5.35	ug/l	96
89) n-Butylbenzene	12.92	91	64858	5.41	ug/l	96
90) Hexachloroethane	12.99	117	19138	6.44	ug/l	89
91) 1,2-Dichlorobenzene	13.02	146	35705	5.54	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.71	75	3513	5.21	ug/l	87

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072318\
Data File : VF059610.D
Acq On : 23 Jul 2018 12:55
Operator : VA/AP
Sample : VSTDICC005
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 81 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC005

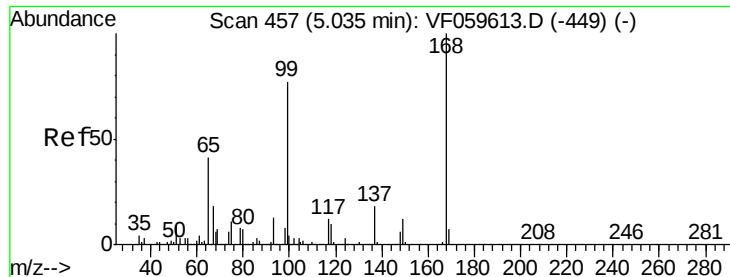
Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM

Quant Time: Jul 23 16:11:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
Quant Title : SW846 8260
QLast Update : Mon Jul 23 14:43:39 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	25328	6.20	µg/l	95
94) Hexachlorobutadiene	14.25	225	17056	7.60	µg/l	96
95) Naphthalene	14.52	128	40791	5.00	µg/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	21749	5.83	µg/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 249590

Ion Ratio Lower Upper

168 100

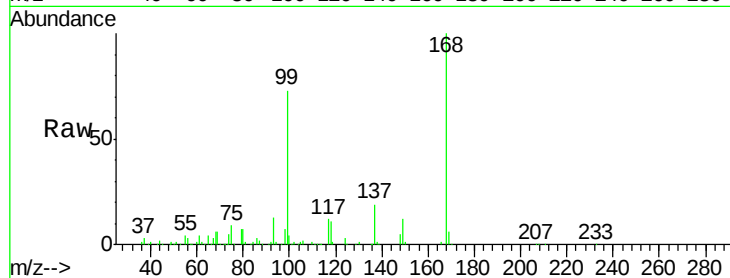
99 73.1 61.5 92.3

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

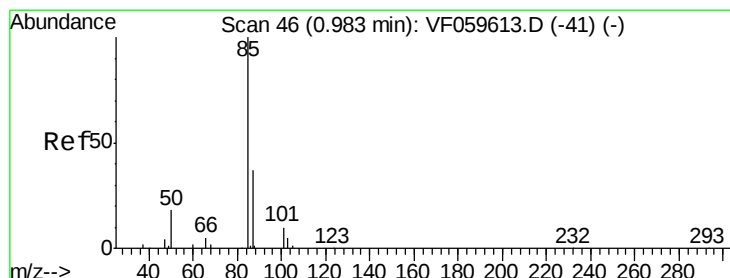
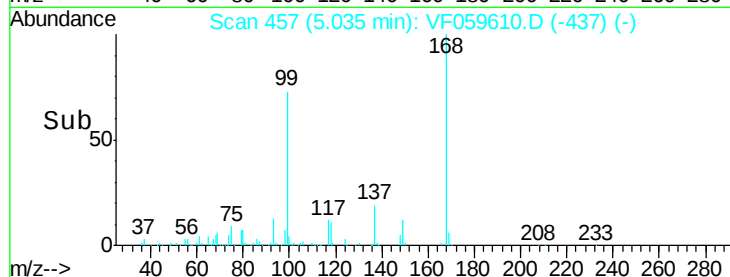
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 5.78 ug/l

RT: 0.98 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059610.D

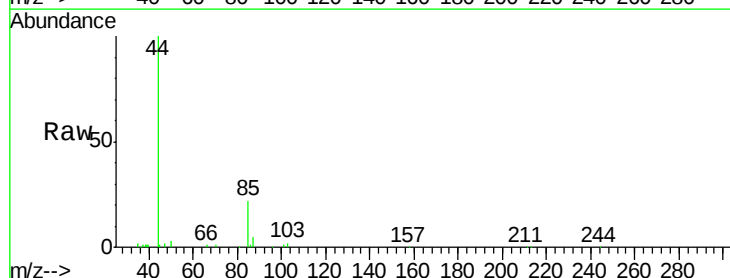
Acq: 23 Jul 2018 12:55

Tgt Ion: 85 Resp: 17996

Ion Ratio Lower Upper

85 100

87 23.2 18.3 54.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

6000

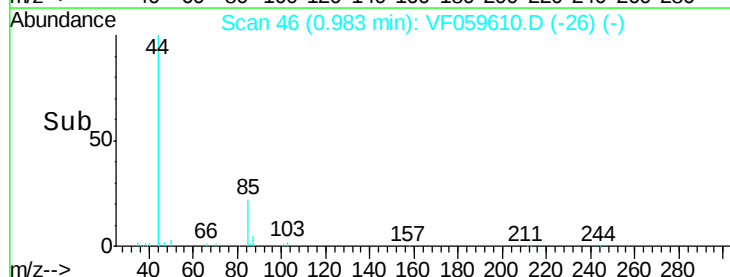
4000

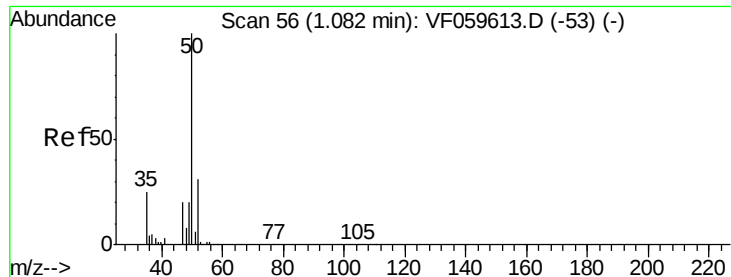
2000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 4.59 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 7621

Ion Ratio Lower Upper

50 100

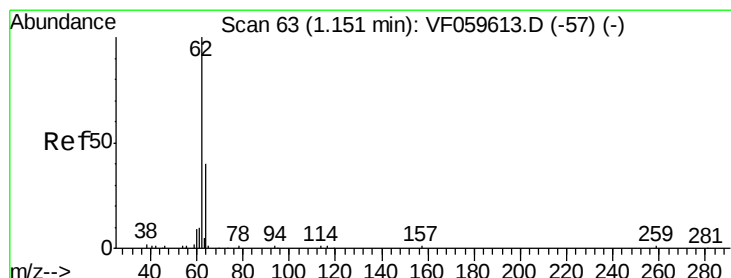
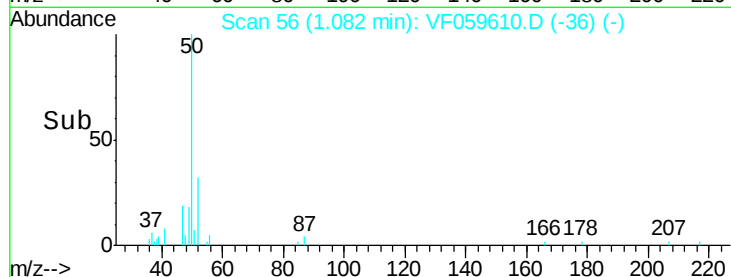
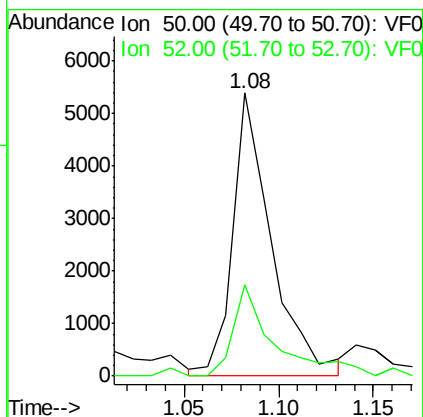
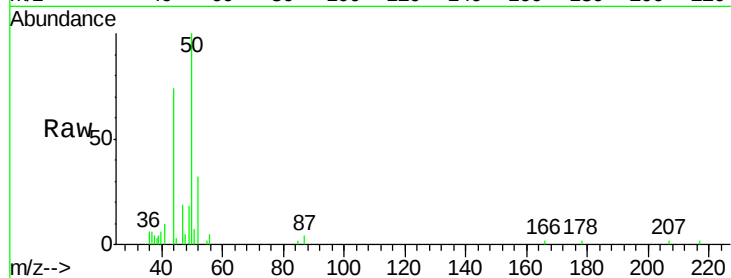
52 32.2 23.7 35.5

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



#4

Vinyl Chloride

Concen: 5.51 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF059610.D

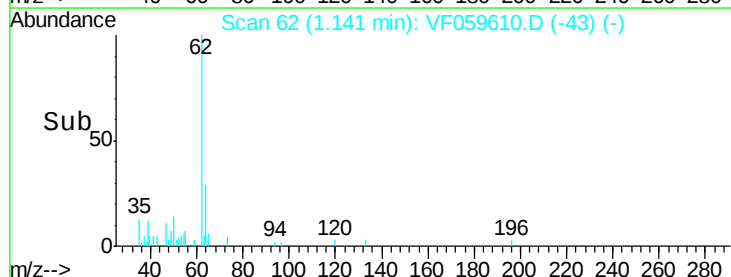
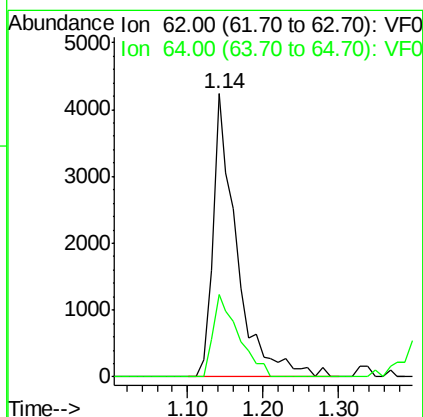
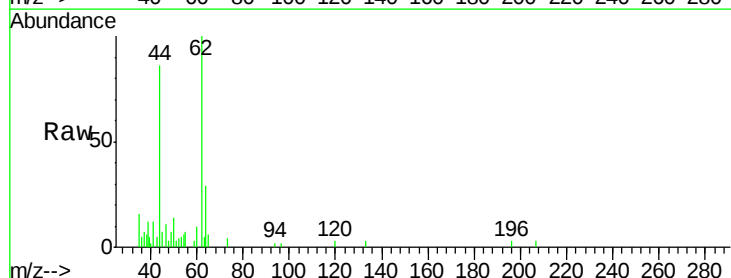
Acq: 23 Jul 2018 12:55

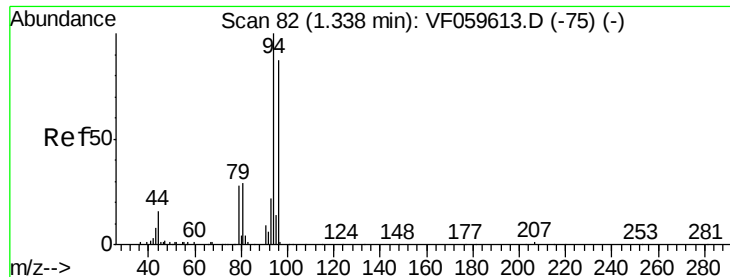
Tgt Ion: 62 Resp: 9345

Ion Ratio Lower Upper

62 100

64 29.3 32.2 48.4#





#5

Bromomethane

Concen: 6.84 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 8400

Ion Ratio Lower Upper

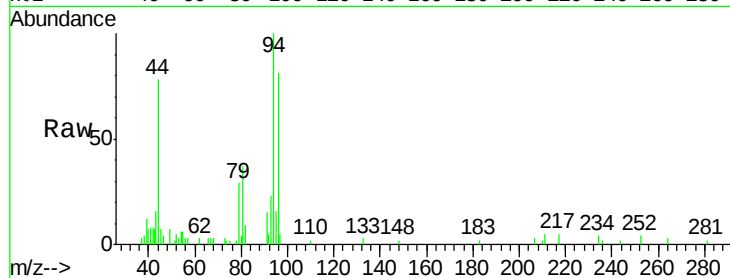
94 100

96 85.8 69.8 104.8

Manual Integrations
APPROVED

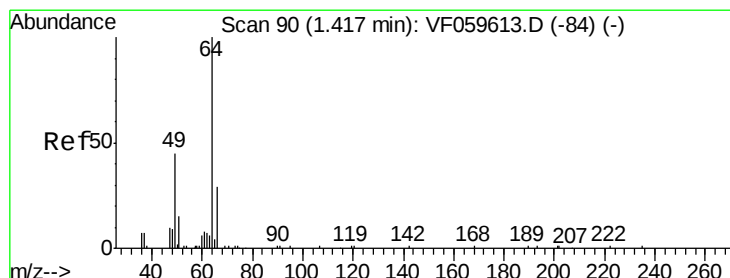
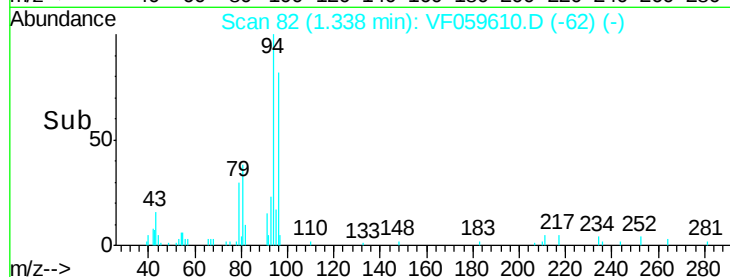
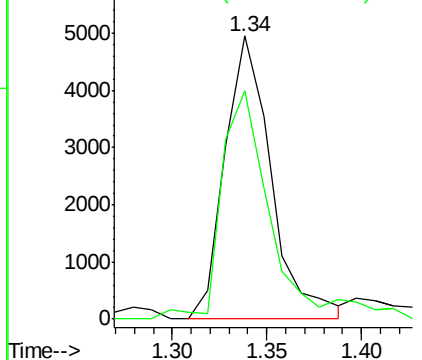
apatel

7/24/2018 1:13:21 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 6.61 ug/l

RT: 1.43 min Scan# 91

Delta R.T. 0.01 min

Lab File: VF059610.D

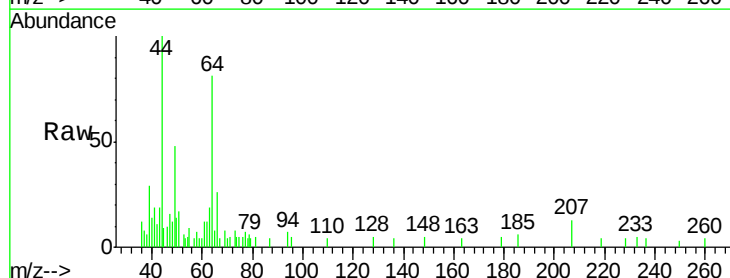
Acq: 23 Jul 2018 12:55

Tgt Ion: 64 Resp: 5844

Ion Ratio Lower Upper

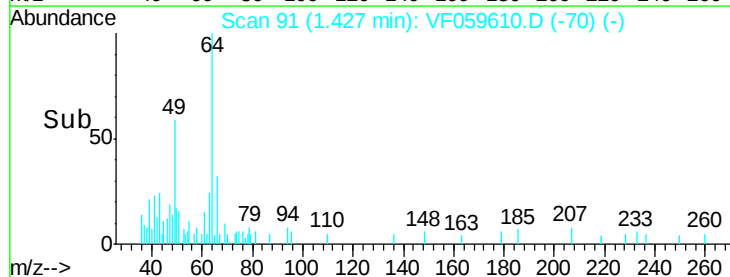
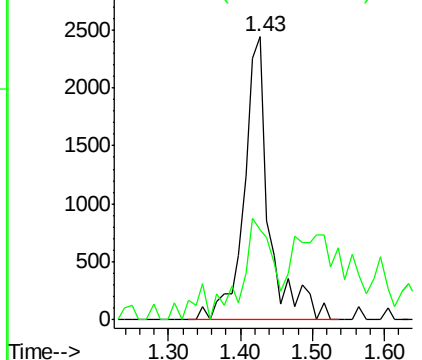
64 100

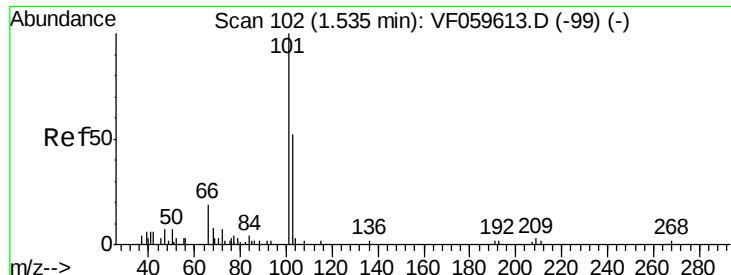
66 32.1 23.7 35.5



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

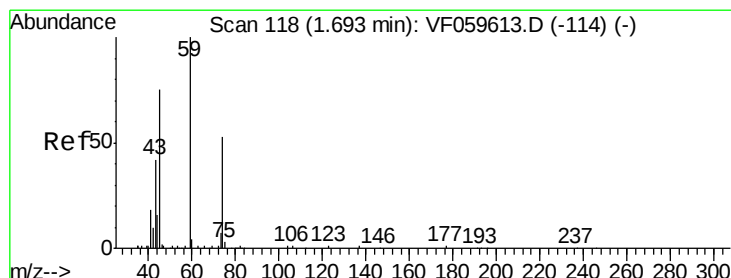
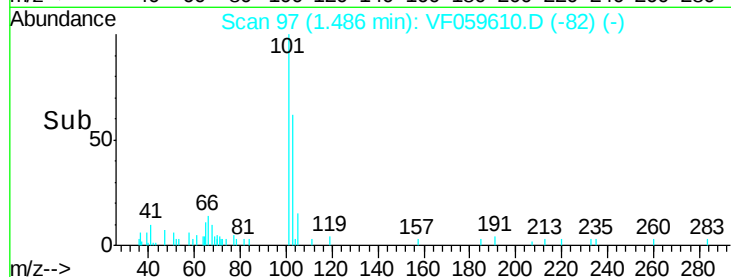
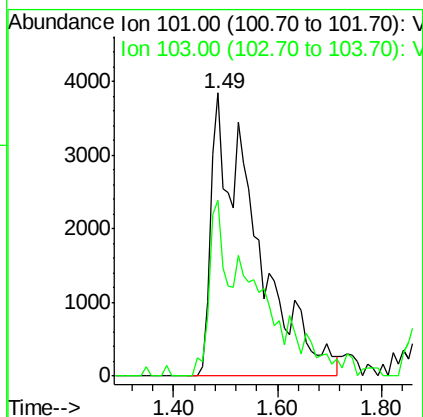
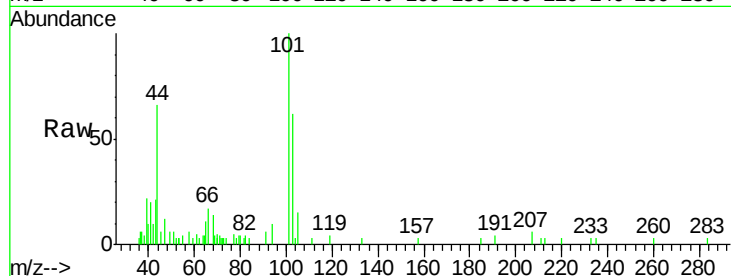
Trichlorofluoromethane
Concen: 5.77 ug/l m
RT: 1.49 min Scan# 97
Delta R.T. -0.05 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.2	48.2	72.4

Manual Integrations
APPROVED

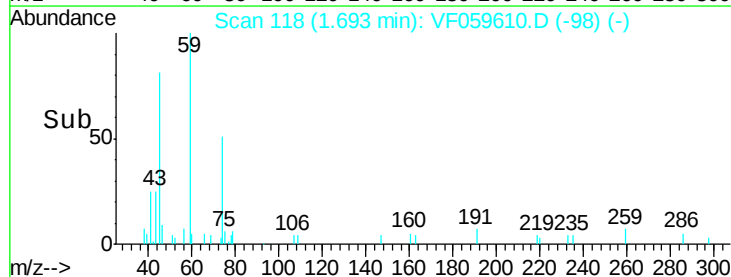
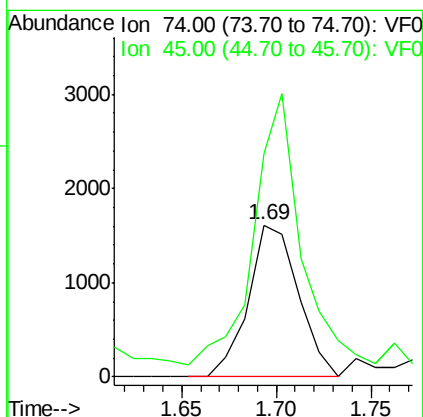
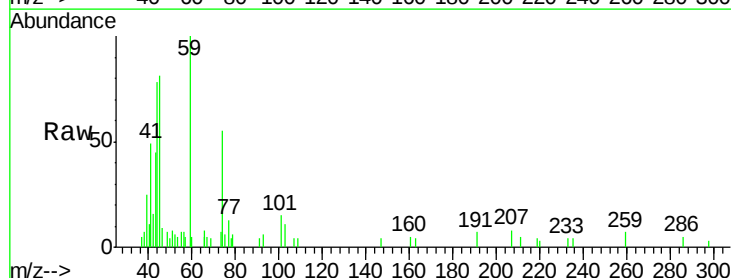
apatel
7/24/2018 1:13:21 PM

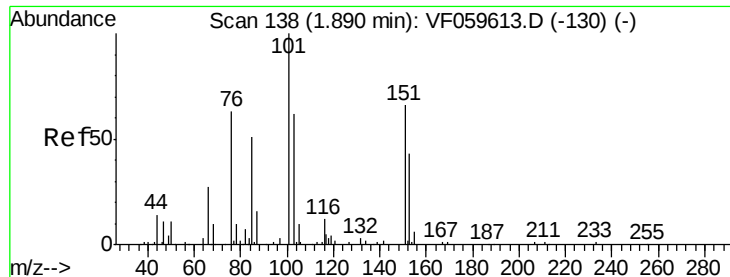


#8

Diethyl Ether
Concen: 3.81 ug/l
RT: 1.69 min Scan# 118
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
74	100		
45	147.5	72.0	215.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 7.10 ug/l

RT: 1.90 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

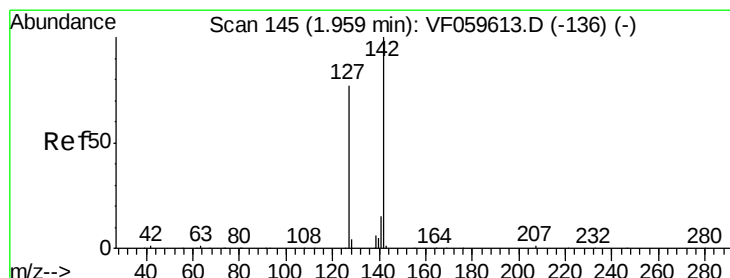
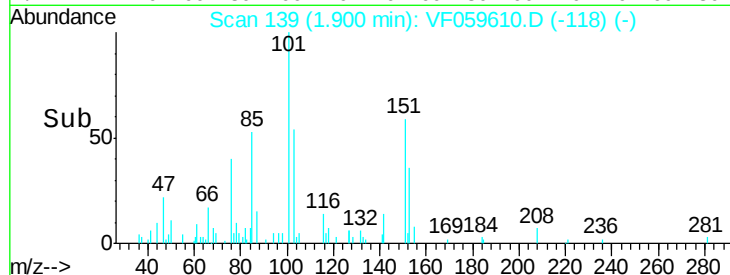
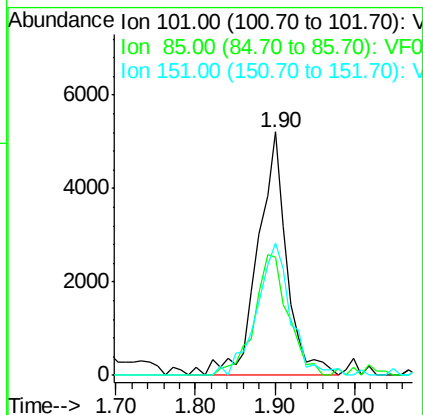
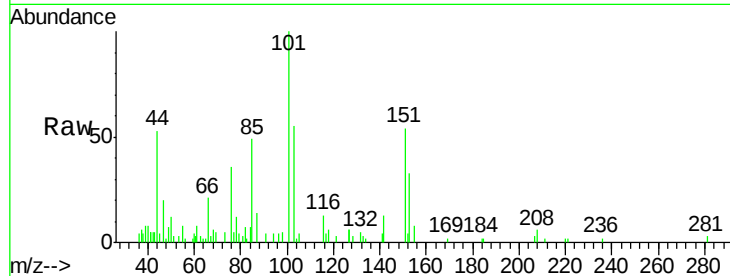
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	13129
Ion Ratio	Lower	Upper	
101	100		
85	48.6	40.2	60.2
151	54.4	51.4	77.2

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#10

Methyl Iodide

Concen: 6.16 ug/l

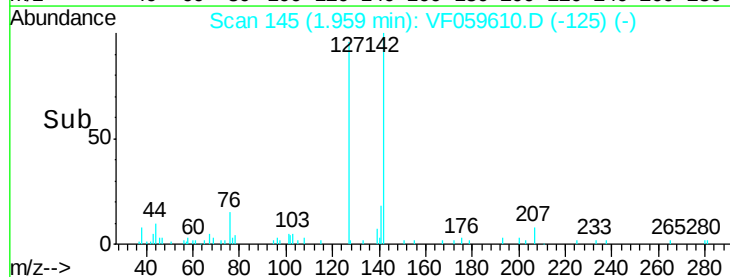
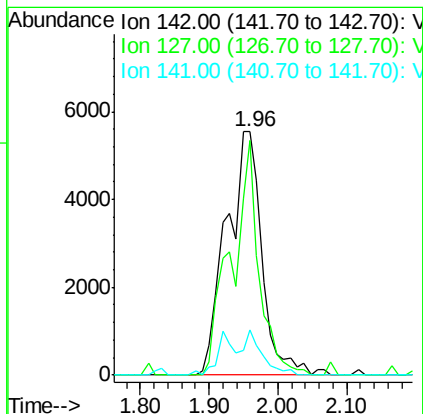
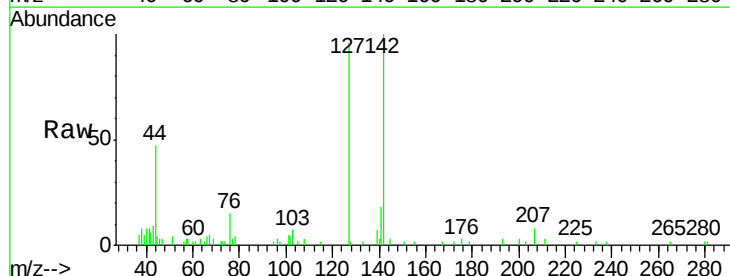
RT: 1.96 min Scan# 145

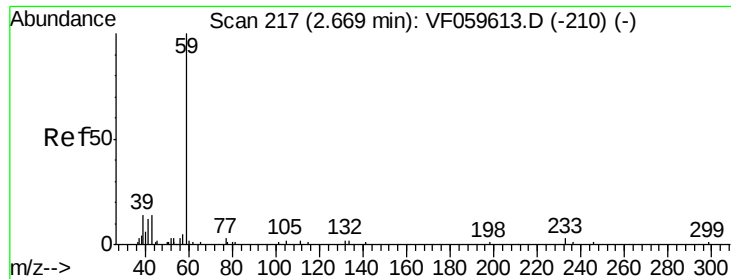
Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion:	142	Resp:	19738
Ion Ratio	Lower	Upper	
142	100		
127	98.1	61.2	91.8#
141	18.5	12.0	18.0#





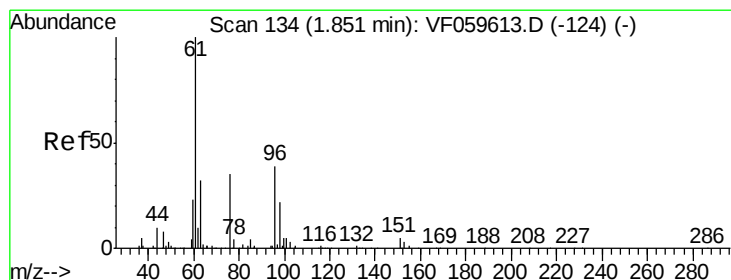
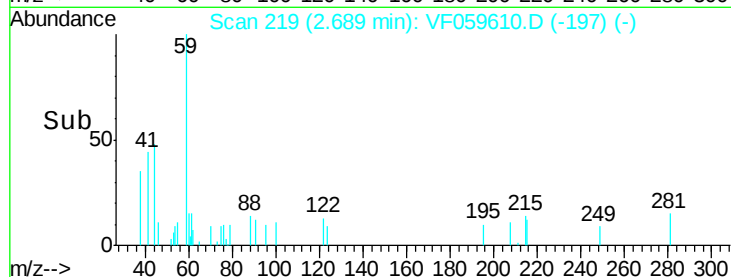
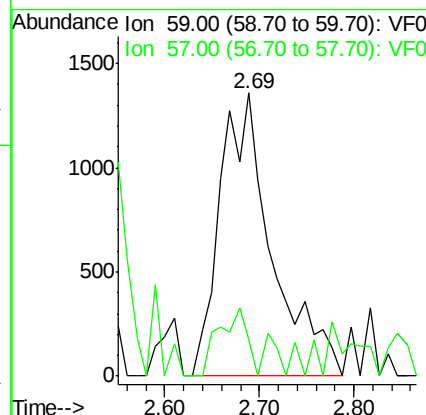
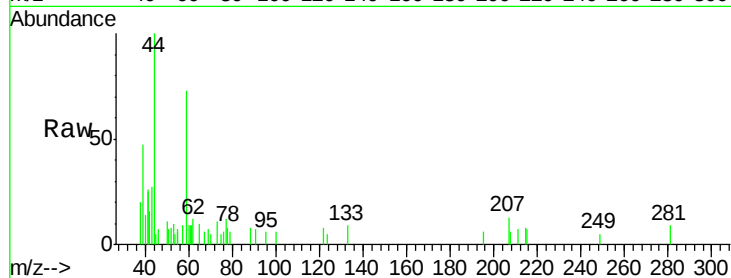
#11
Tert butyl alcohol
Concen: 29.94 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.02 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 59 Resp: 5198
Ion Ratio Lower Upper
59 100
57 12.9 8.6 12.8#

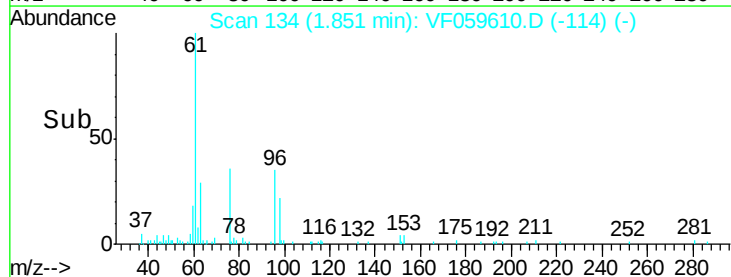
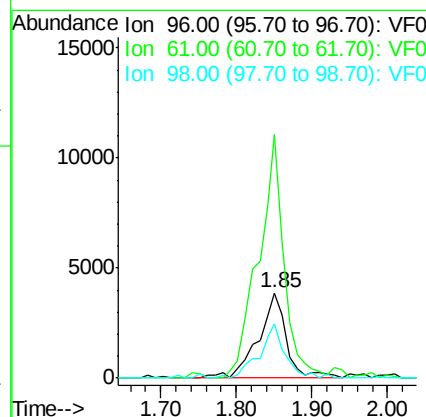
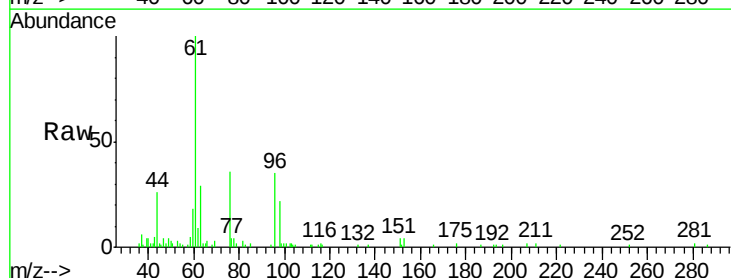
Manual Integrations
APPROVED

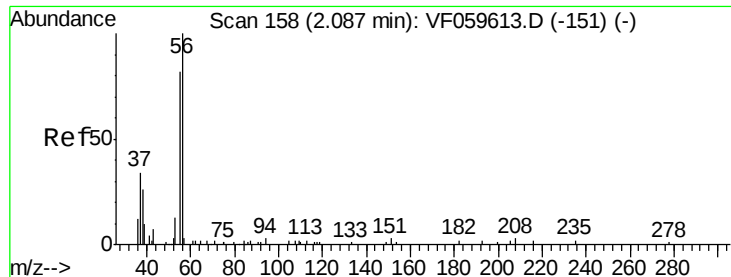
apatel
7/24/2018 1:13:21 PM



#12
1,1-Dichloroethene
Concen: 5.30 ug/l
RT: 1.85 min Scan# 134
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion: 96 Resp: 9953
Ion Ratio Lower Upper
96 100
61 286.4 207.2 310.8
98 63.8 45.5 68.3





#13

Acrolein

Concen: 26.13 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 2444

Ion Ratio Lower Upper

56 100

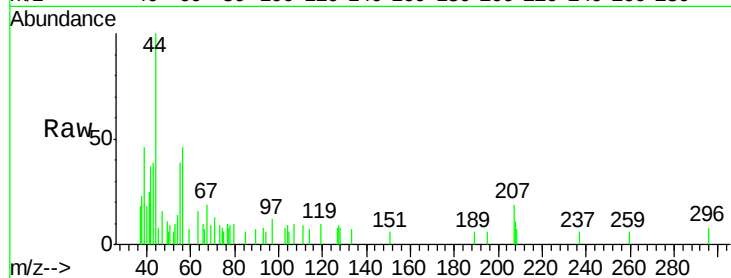
55 84.5 65.6 98.4

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.08

800

600

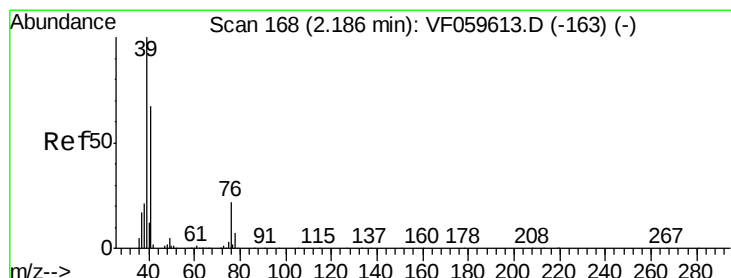
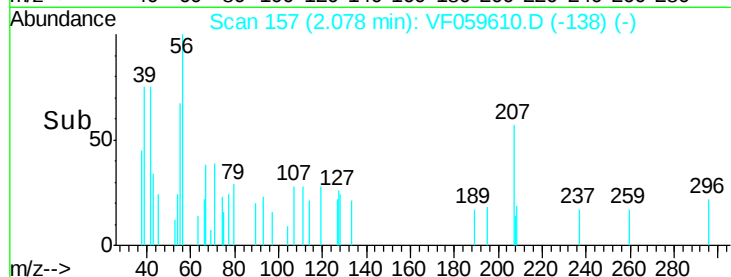
400

200

0

2.00 2.10 2.20

Time-->



#14

Allyl chloride

Concen: 7.82 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

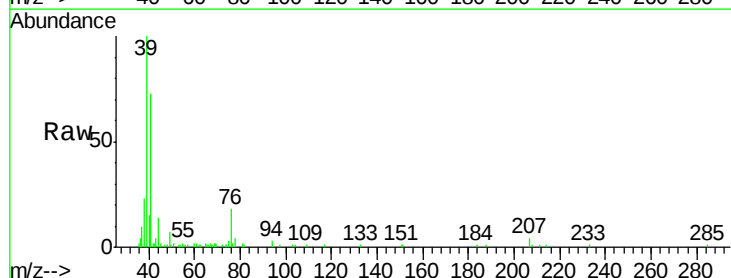
Tgt Ion: 41 Resp: 19372

Ion Ratio Lower Upper

41 100

39 136.5 119.0 178.4

76 24.1 26.3 39.5#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

15000

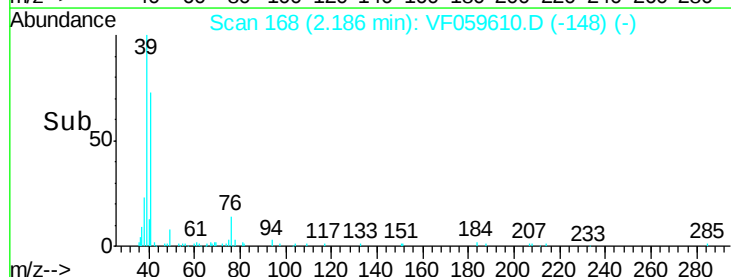
10000

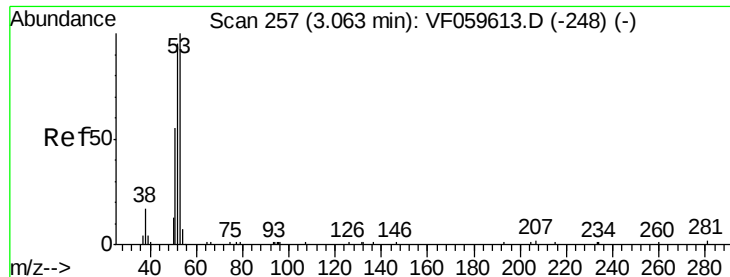
5000

0

2.10 2.20 2.30

Time-->





#15

Acrylonitrile

Concen: 21.69 ug/l

RT: 3.06 min Scan# 257

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

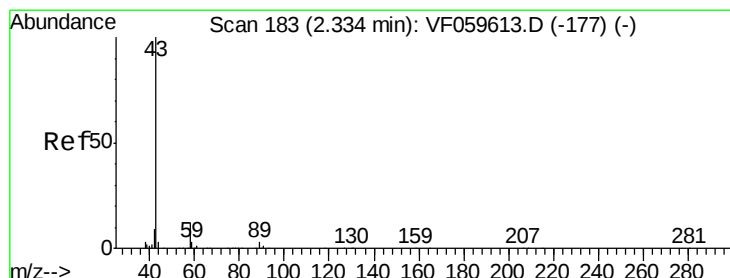
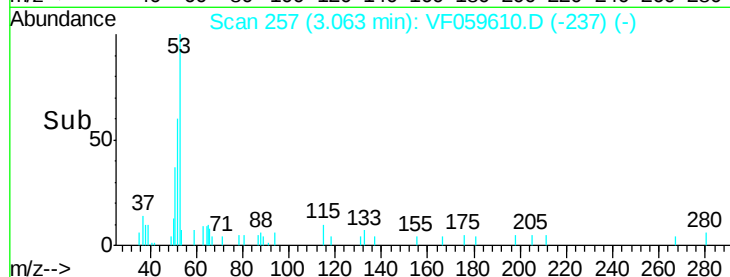
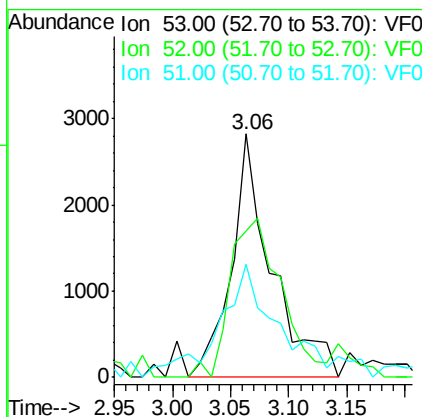
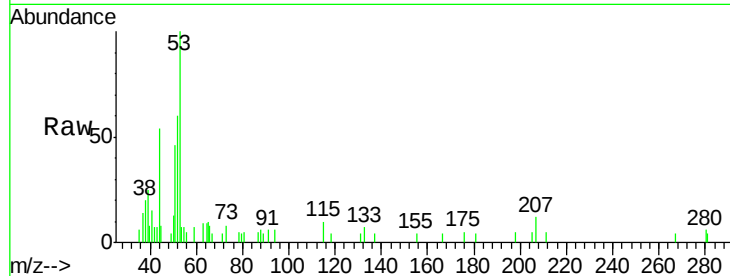
VSTDIC005

Tot Ion:	53	Resp:	6746
Ion	Ratio	Lower	Upper
53	100		
52	60.2	76.2	114.2#
51	46.2	45.8	68.8

Manual Integrations
APPROVED

apatel

7/24/2018 1:13:21 PM



#16

Acetone

Concen: 33.89 ug/l

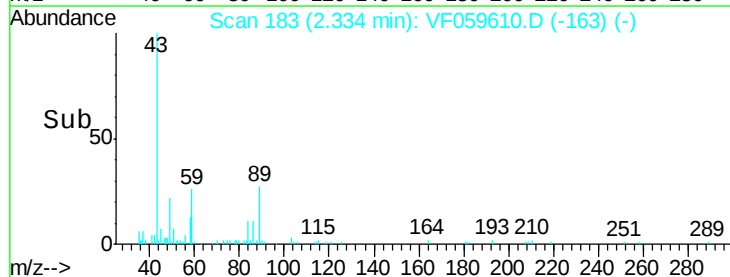
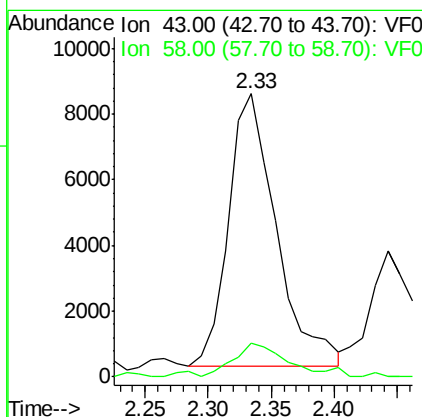
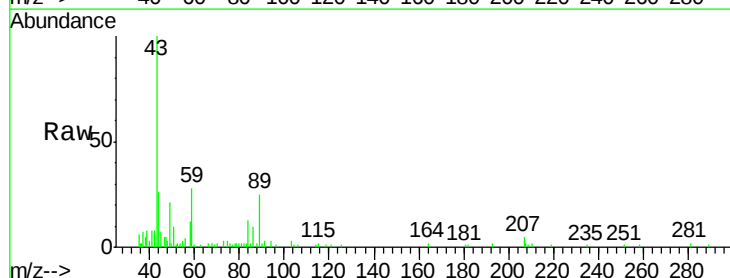
RT: 2.33 min Scan# 183

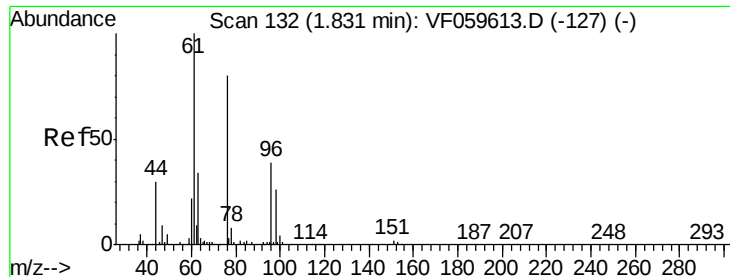
Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion:	43	Resp:	21813
Ion	Ratio	Lower	Upper
43	100		
58	12.0	9.8	14.8





#17

Carbon Disulfide

Concen: 5.84 ug/l

RT: 1.86 min Scan# 135

Delta R.T. 0.03 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 25024

Ion Ratio Lower Upper

76 100

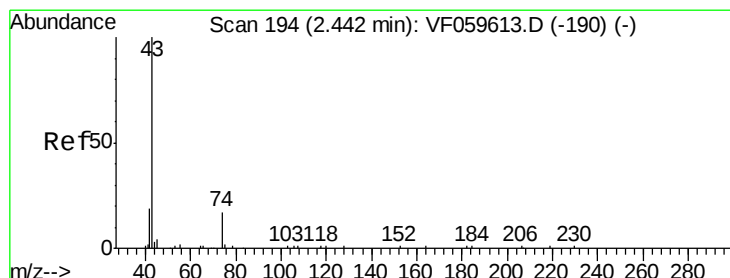
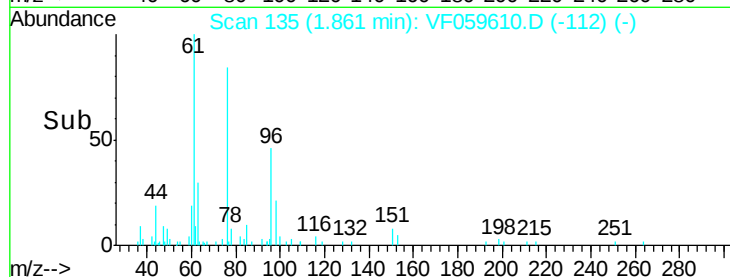
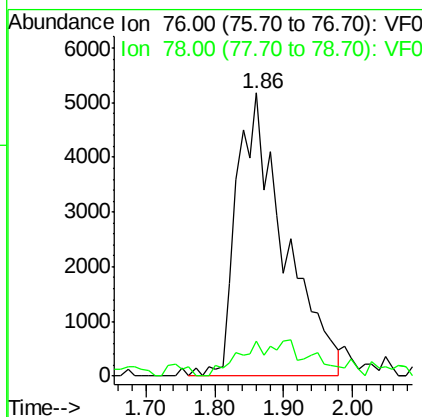
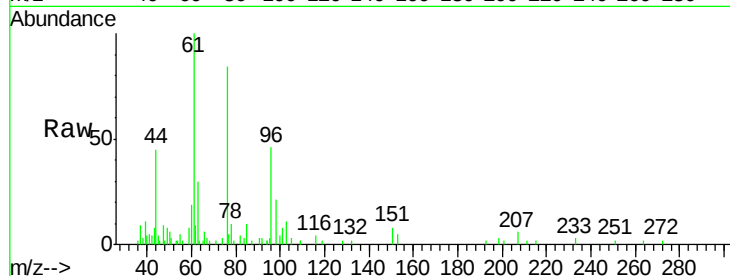
78 12.5 7.7 11.5#

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



#18

Methyl Acetate

Concen: 6.87 ug/l m

RT: 2.44 min Scan# 194

Delta R.T. 0.00 min

Lab File: VF059610.D

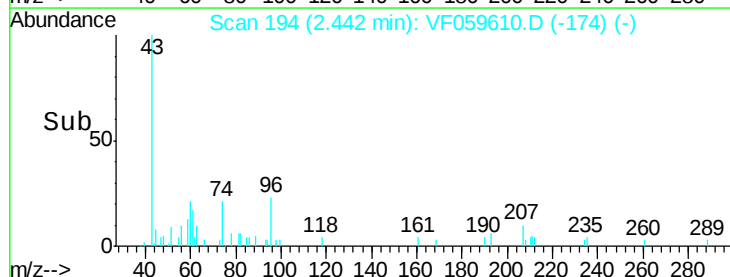
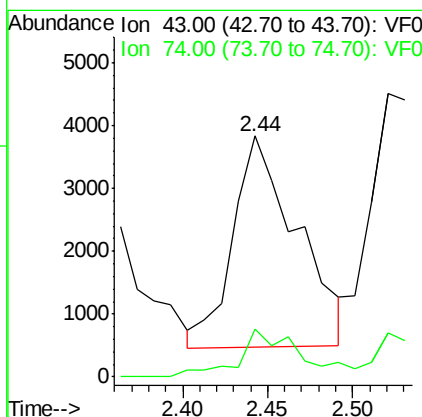
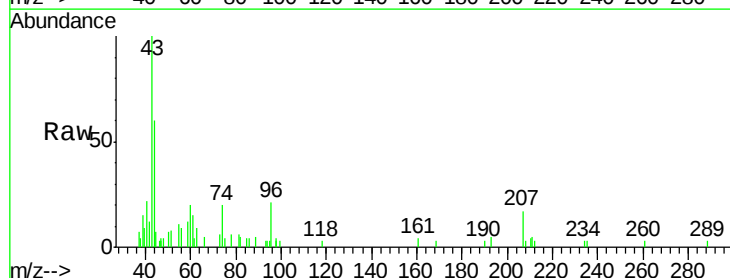
Acq: 23 Jul 2018 12:55

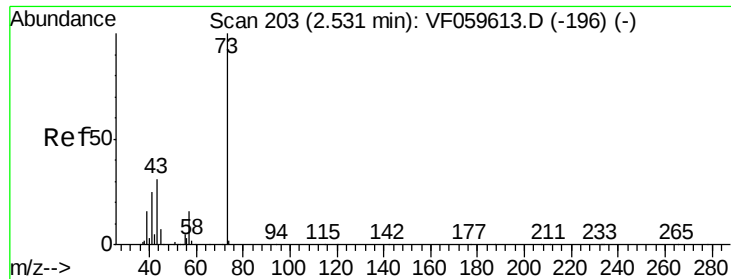
Tgt Ion: 43 Resp: 8876

Ion Ratio Lower Upper

43 100

74 19.8 11.4 17.0#





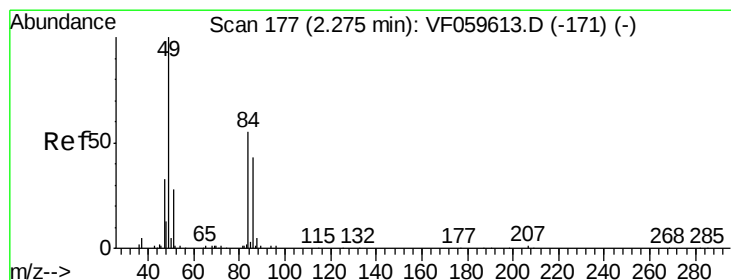
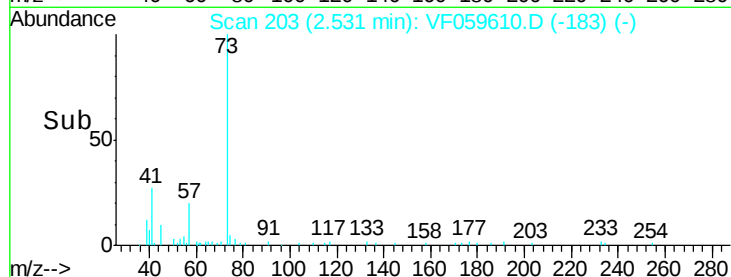
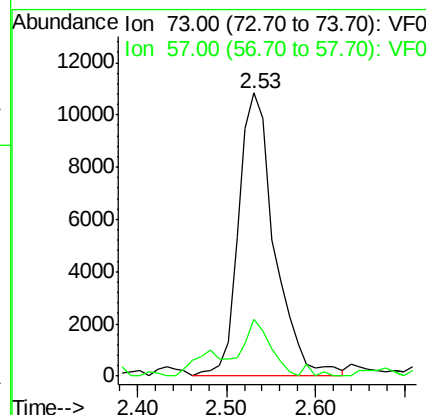
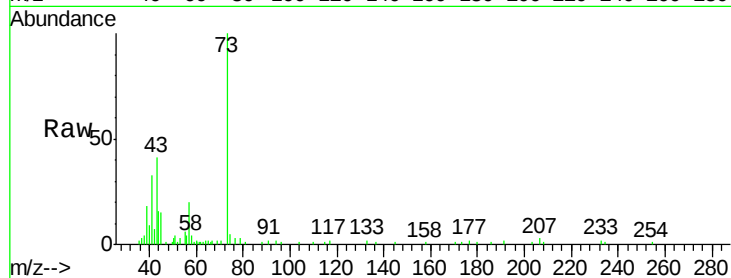
#19
Methvl tert-butvl Ether
Concen: 5.41 ug/l
RT: 2.53 min Scan# 203
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 30550
Ion Ratio Lower Upper
73 100
57 20.0 13.2 19.8#

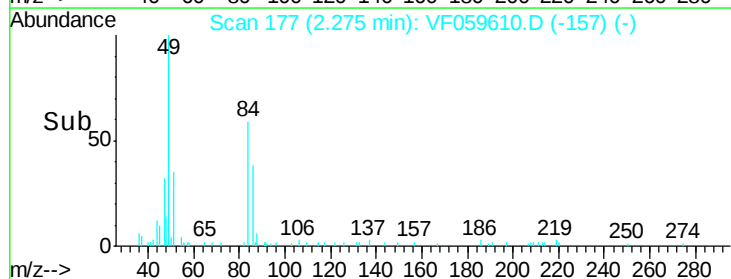
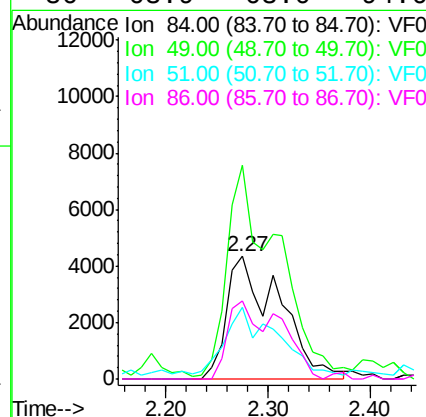
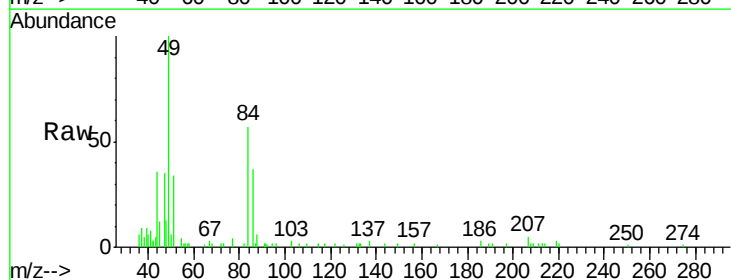
Manual Integrations
APPROVED

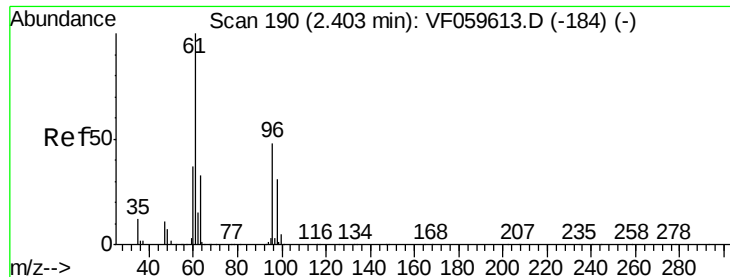
apatel
7/24/2018 1:13:21 PM



#20
Methylene Chloride
Concen: 7.28 ug/l m
RT: 2.27 min Scan# 177
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion: 84 Resp: 15593
Ion Ratio Lower Upper
84 100
49 174.0 148.6 222.8
51 58.5 42.7 64.1
86 63.9 63.0 94.6





#21

trans-1,2-Dichloroethene

Concen: 6.07 ug/l

RT: 2.40 min Scan# 190

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

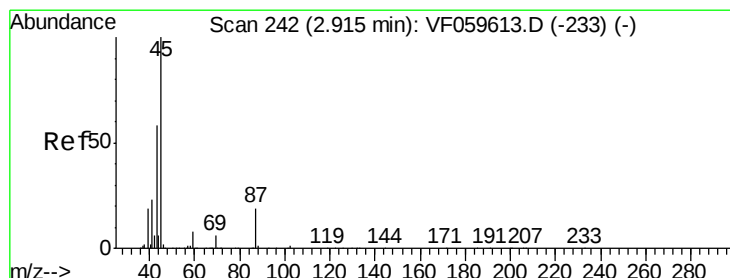
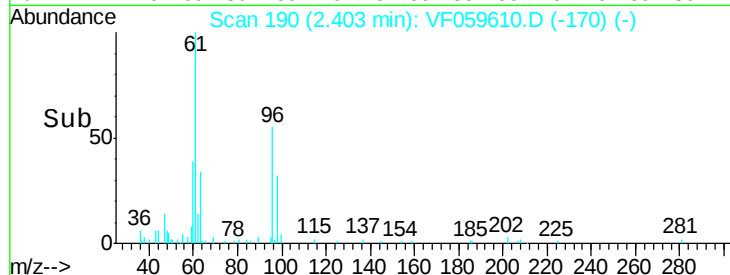
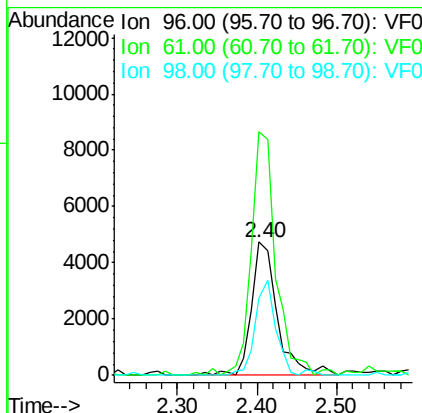
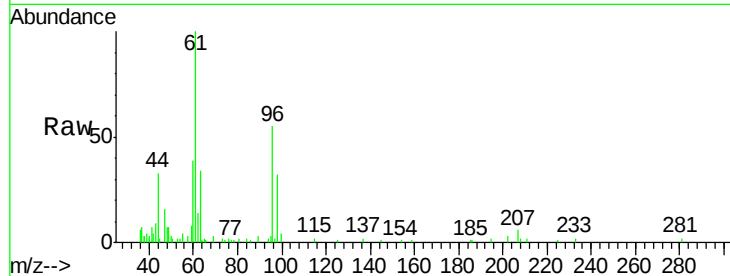
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	10539
Ion	Ratio	Lower	Upper
96	100		
61	183.1	167.0	250.6
98	57.7	51.8	77.8

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#22

Diisopropyl ether

Concen: 4.95 ug/l

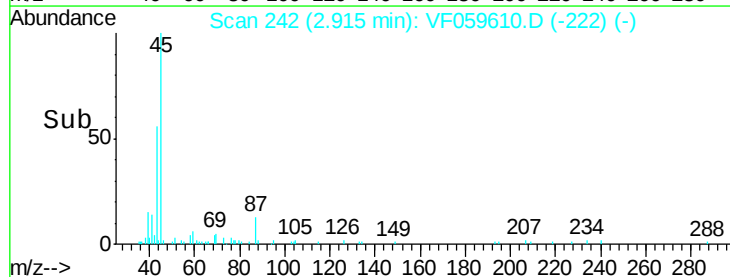
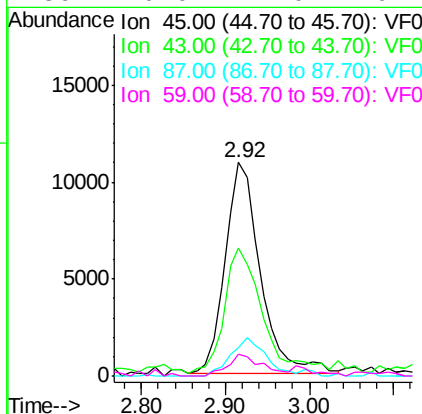
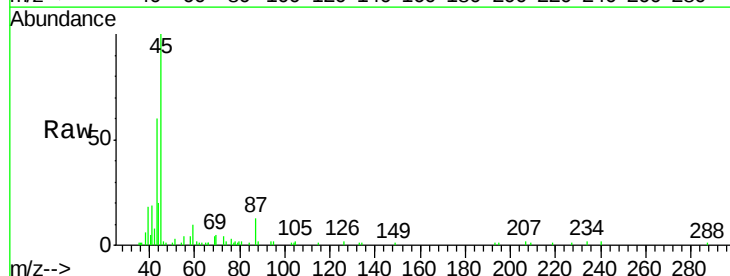
RT: 2.92 min Scan# 242

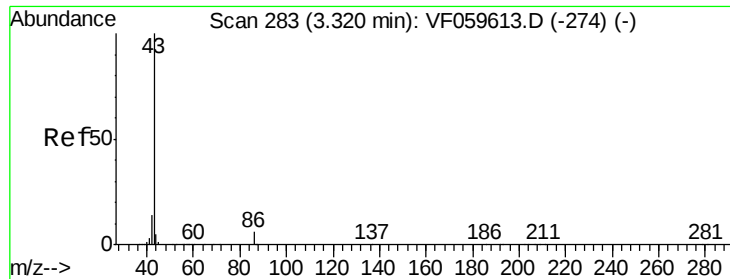
Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion:	45	Resp:	31707
Ion	Ratio	Lower	Upper
45	100		
43	60.1	46.7	70.1
87	13.0	15.0	22.6
59	10.0	7.0	10.4





#23

Vinyl Acetate

Concen: 20.85 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 76874

Ion Ratio Lower Upper

43 100

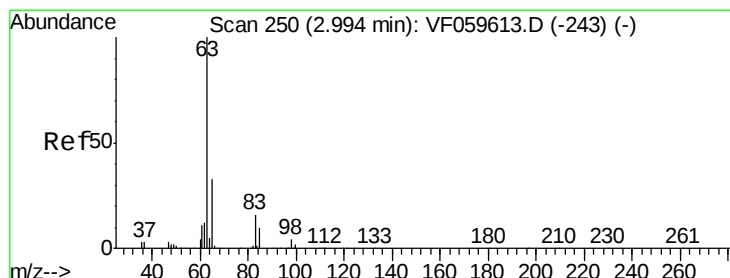
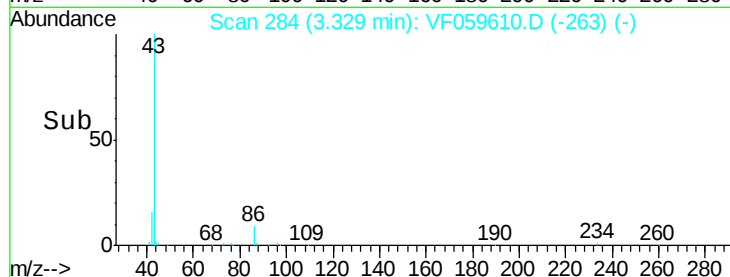
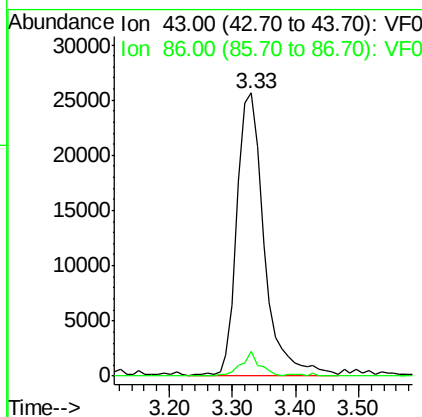
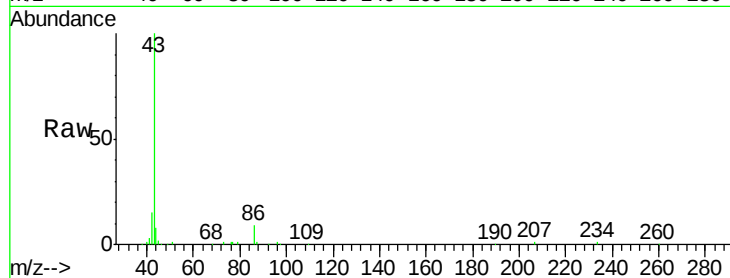
86 8.8 4.6 6.8#

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



#24

1,1-Dichloroethane

Concen: 5.69 ug/l

RT: 2.99 min Scan# 250

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

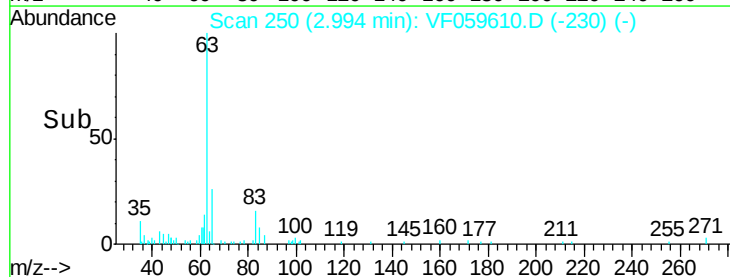
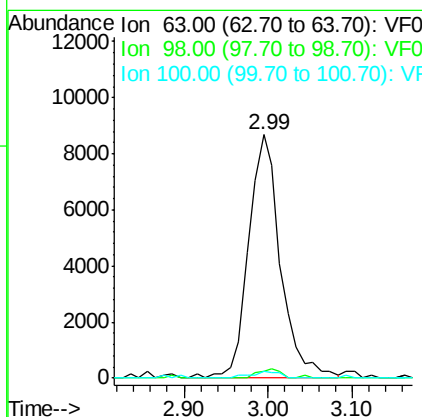
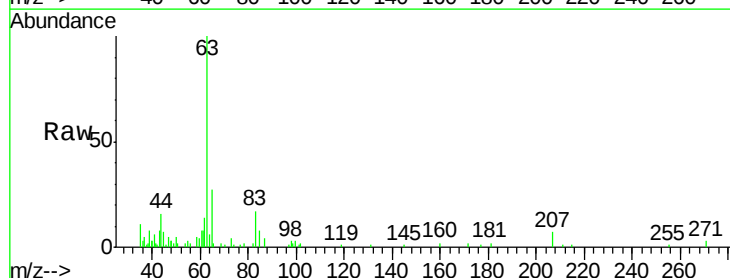
Tgt Ion: 63 Resp: 23102

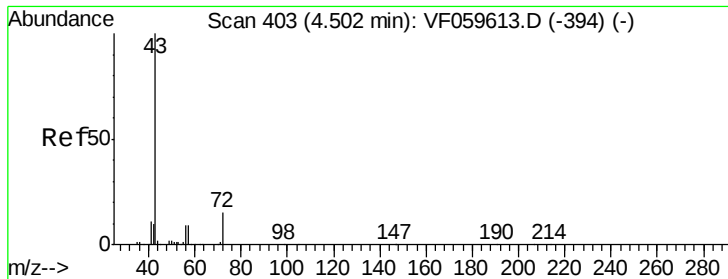
Ion Ratio Lower Upper

63 100

98 5.2 1.9 5.7

100 2.8 1.2 3.6





#25

2-Butanone

Concen: 25.42 ug/l

RT: 4.50 min Scan# 403

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tot Ion: 43 Resp: 21868

Ion Ratio Lower Upper

43 100

72 14.8 12.9 19.3

Instrument :

MSVOA_F

ClientSampleId :

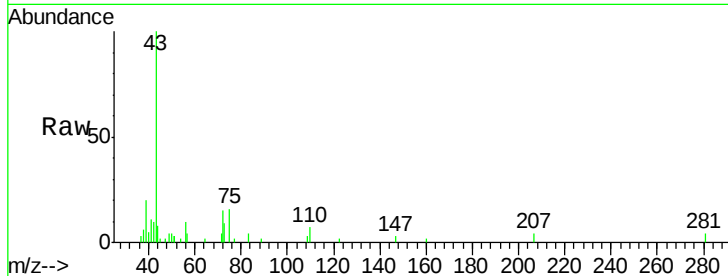
VSTDIC005

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

6000

5000

4000

3000

2000

1000

0

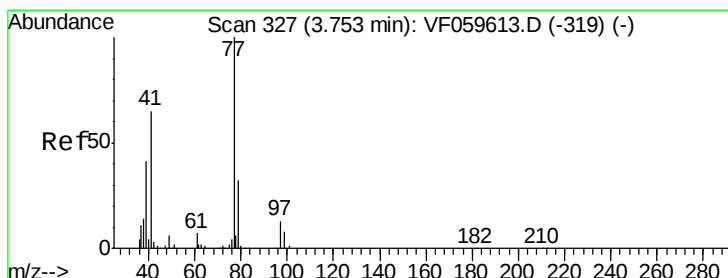
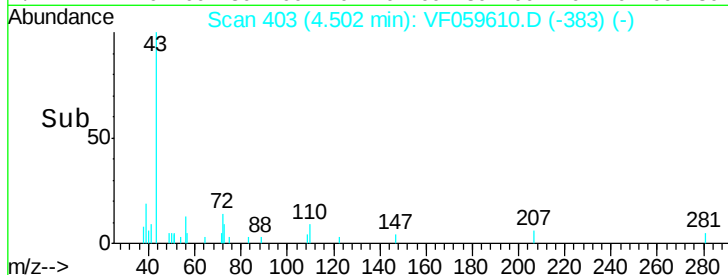
4.40

4.50

4.60

4.70

Time-->



#26

2,2-Dichloropropane

Concen: 6.98 ug/l

RT: 3.76 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF059610.D

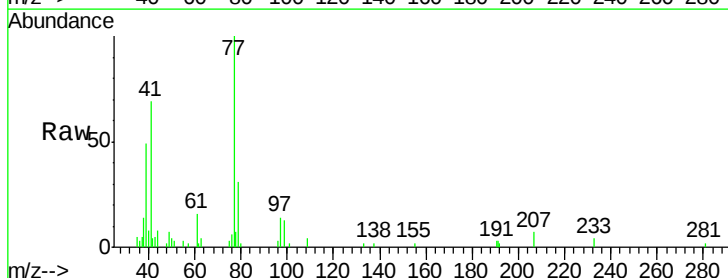
Acq: 23 Jul 2018 12:55

Tgt Ion: 77 Resp: 19642

Ion Ratio Lower Upper

77 100

97 13.8 7.1 21.3



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

6000

5000

4000

3000

2000

1000

0

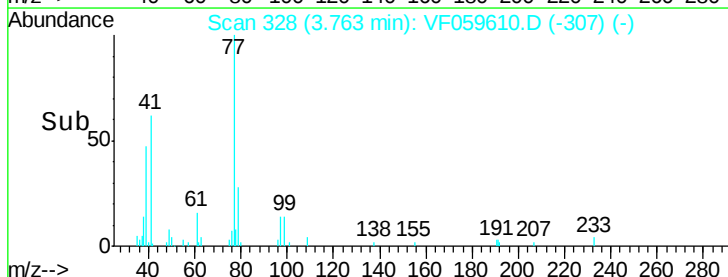
3.60

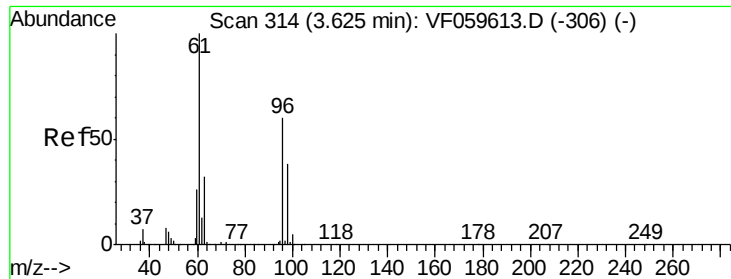
3.70

3.80

3.90

Time-->





#27

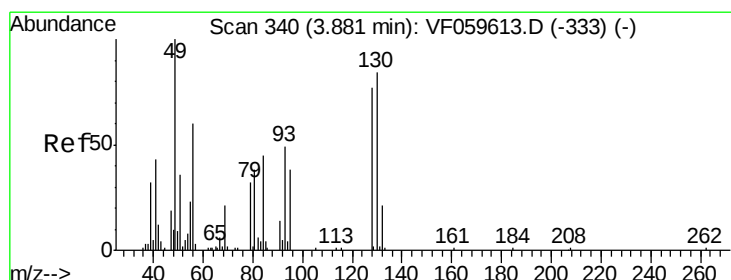
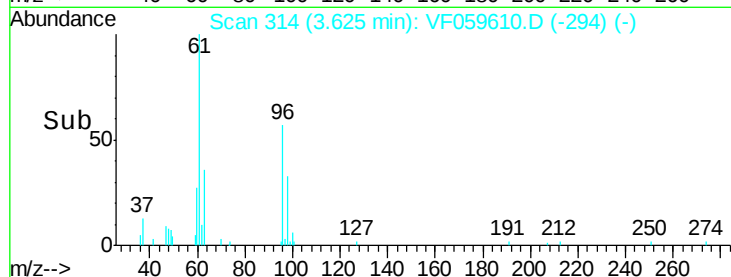
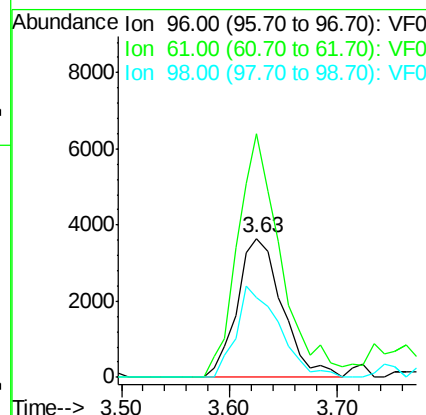
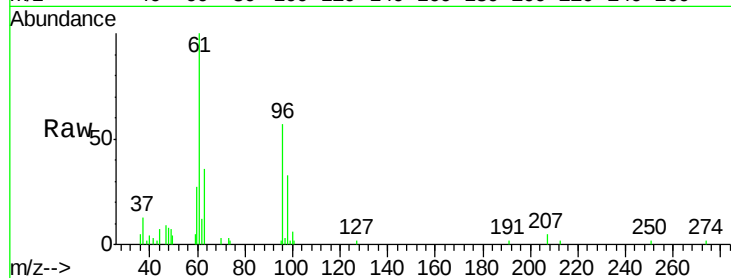
cis-1,2-Dichloroethene
Concen: 5.24 ug/l
RT: 3.63 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	175.6	0.0	335.2
98	57.6	0.0	126.6

Manual Integrations
APPROVED

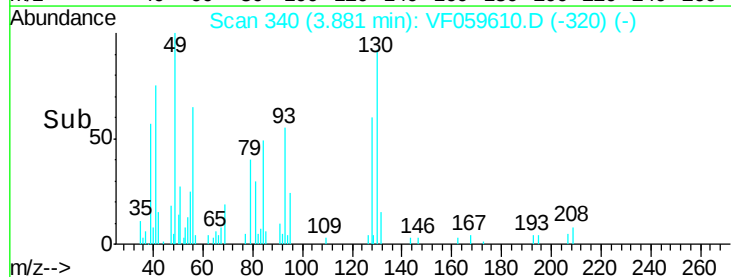
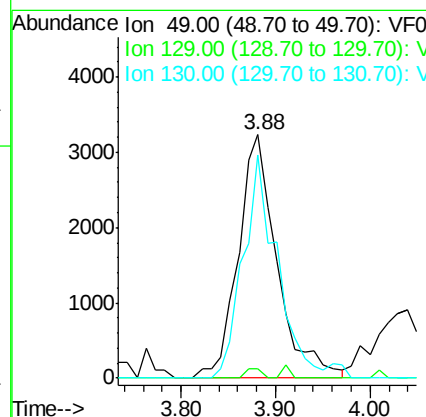
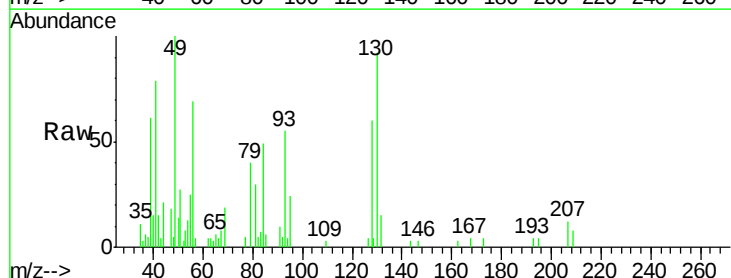
apatel
7/24/2018 1:13:21 PM

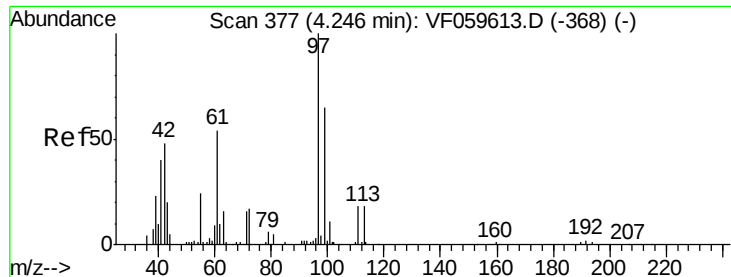


#28

Bromochloromethane
Concen: 5.37 ug/l
RT: 3.88 min Scan# 340
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.6	0.0	4.6
130	91.7	67.1	100.7





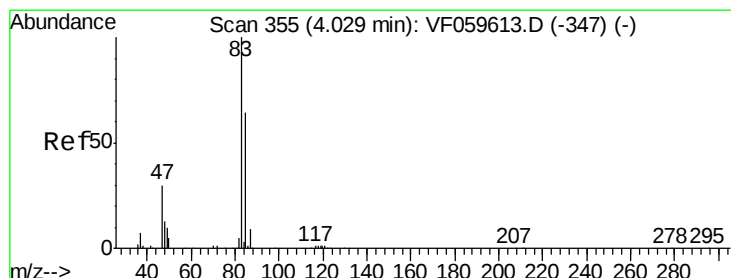
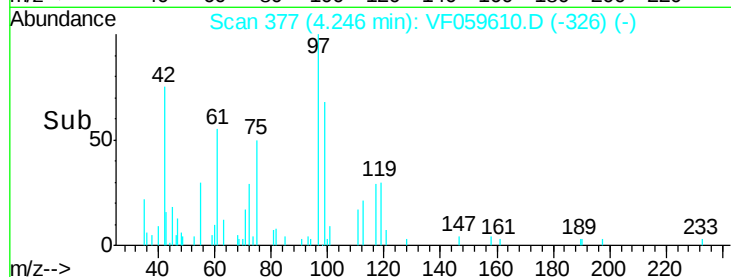
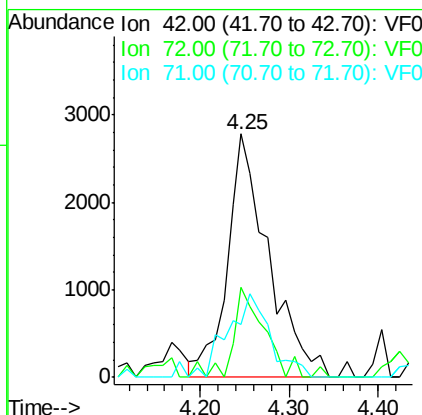
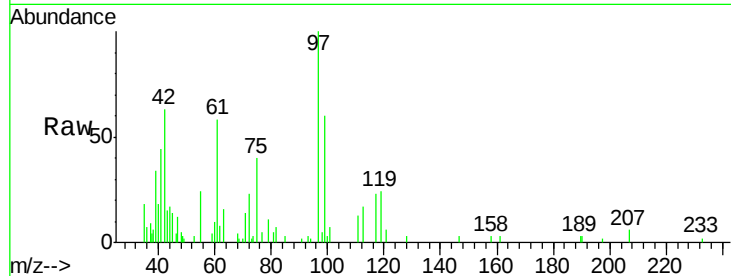
#29
Tetrahydrofuran
Concen: 23.10 ug/l
RT: 4.25 min Scan# 377
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	26.9	27.9	41.9#
71	34.9	29.3	43.9

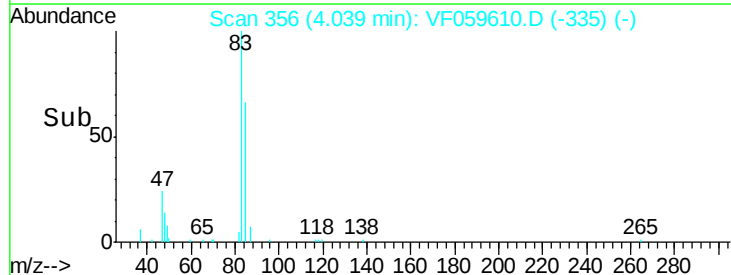
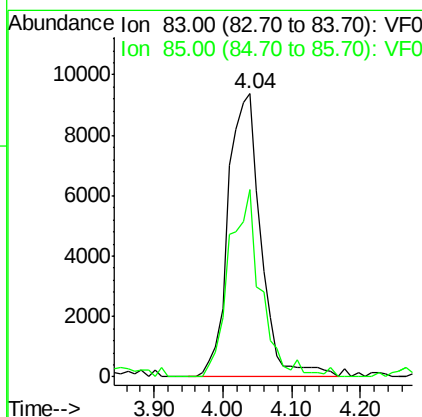
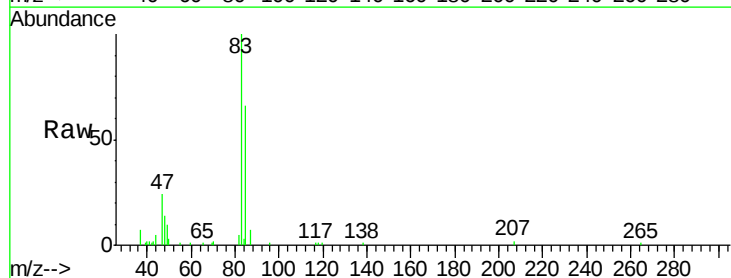
Manual Integrations
APPROVED

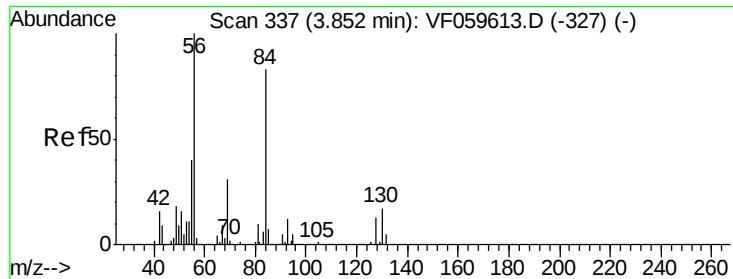
apatel
7/24/2018 1:13:21 PM



#30
Chloroform
Concen: 5.32 ug/l
RT: 4.04 min Scan# 356
Delta R.T. 0.01 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.1	76.7





#31

Cvclohexane

Concen: 5.81 ug/l

RT: 3.86 min Scan# 338

Delta R.T. 0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

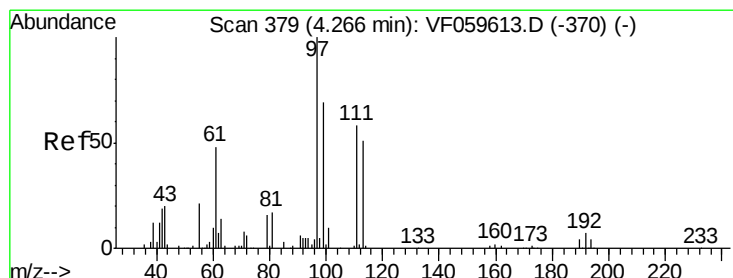
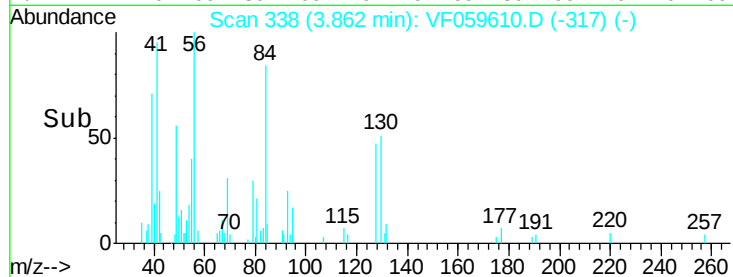
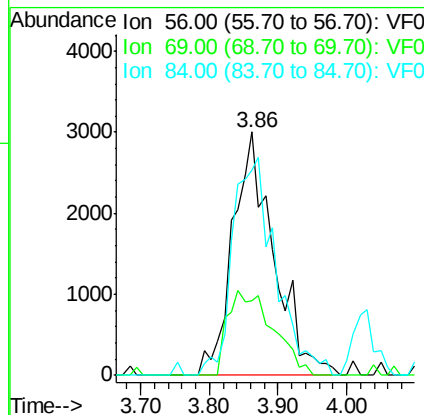
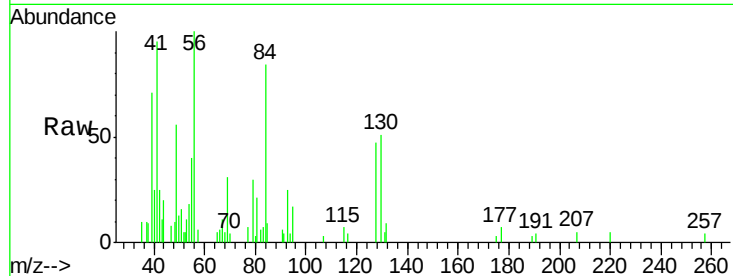
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	12471
Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.6	37.0
84	84.2	66.6	99.8

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#32

1,1,1-Trichloroethane

Concen: 6.96 ug/l

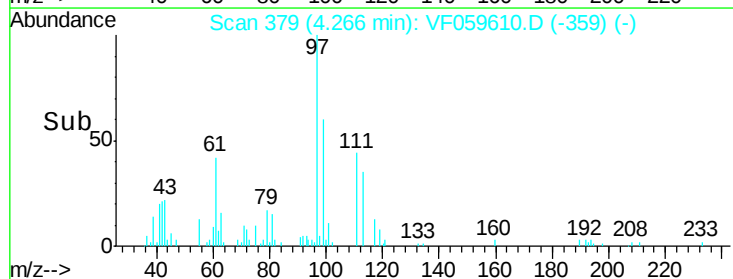
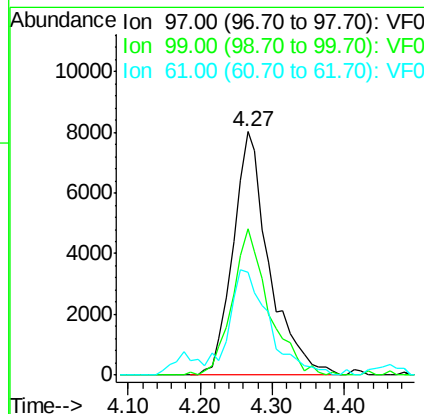
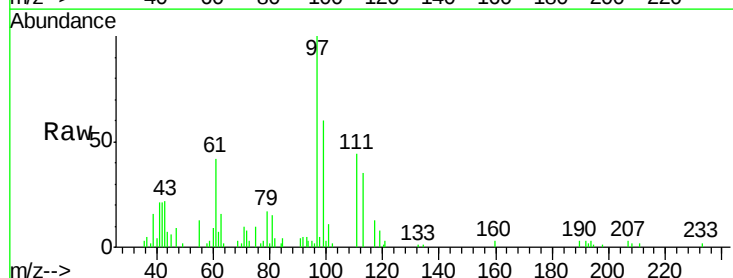
RT: 4.27 min Scan# 379

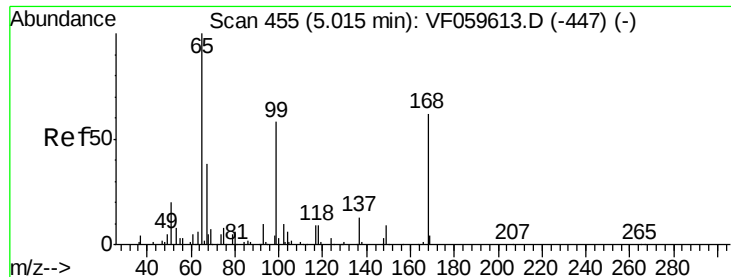
Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion:	97	Resp:	27934
Ion	Ratio	Lower	Upper
97	100		
99	60.2	55.4	83.2
61	42.1	39.3	58.9





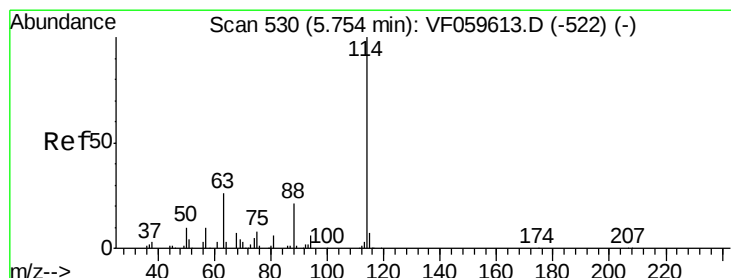
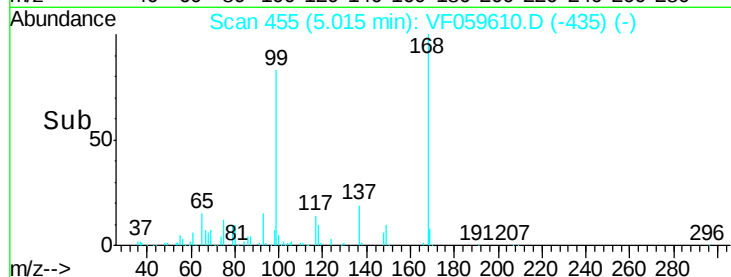
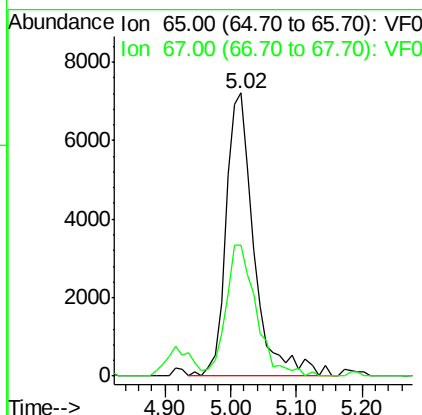
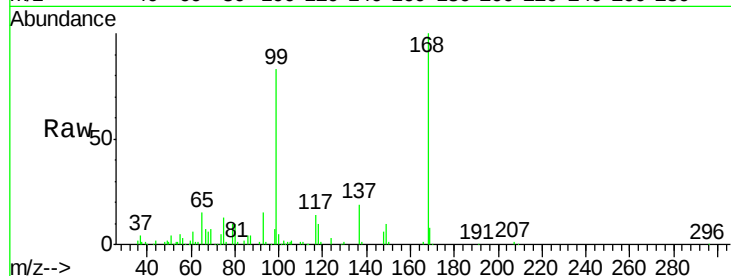
#33
 1,2-Dichloroethane-d4
 Concen: 5.48 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: VF059610.D
 Acq: 23 Jul 2018 12:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	46.5	0.0	83.8

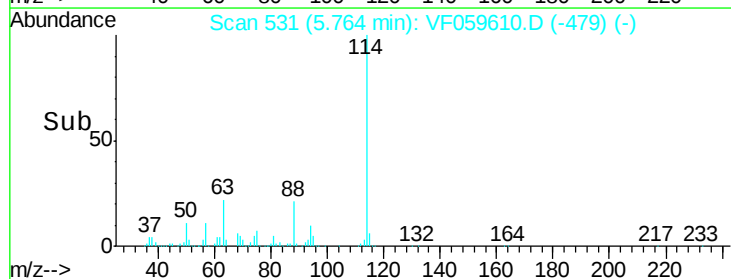
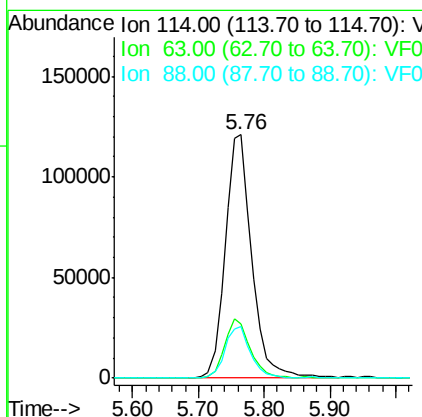
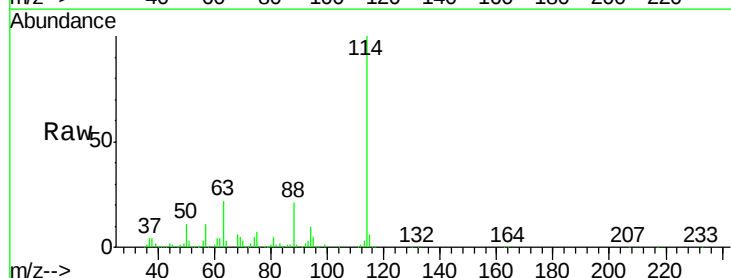
Manual Integrations
 APPROVED

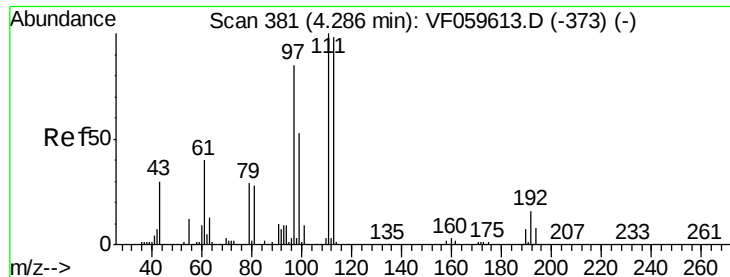
apatel
 7/24/2018 1:13:21 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VF059610.D
 Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	51.8
88	21.1	0.0	42.8





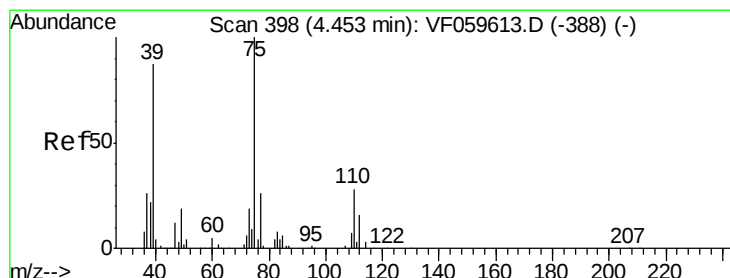
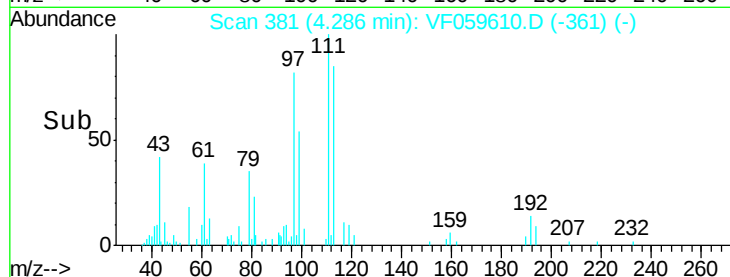
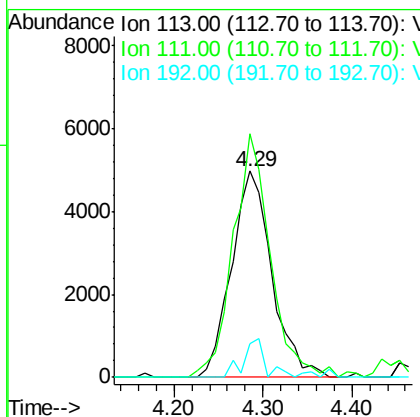
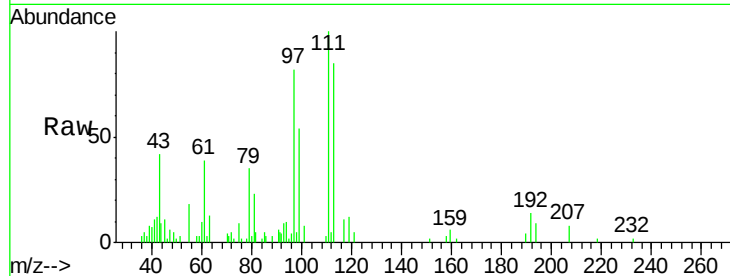
#35
Dibromofluoromethane
Concen: 5.25 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	118.1	81.5	122.3
192	16.4	13.4	20.2

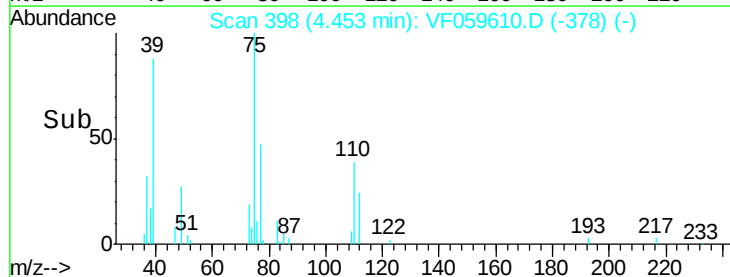
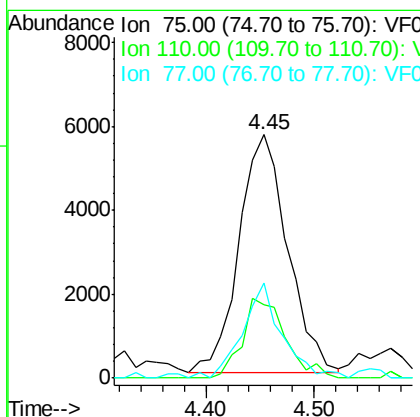
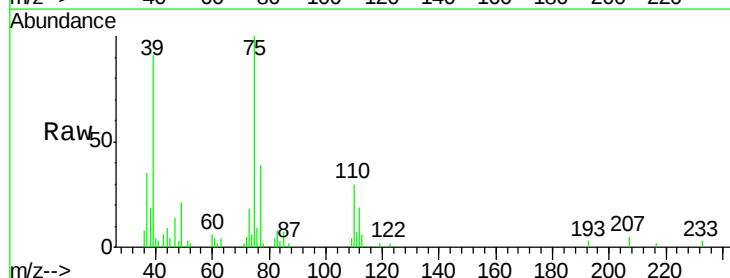
Manual Integrations
APPROVED

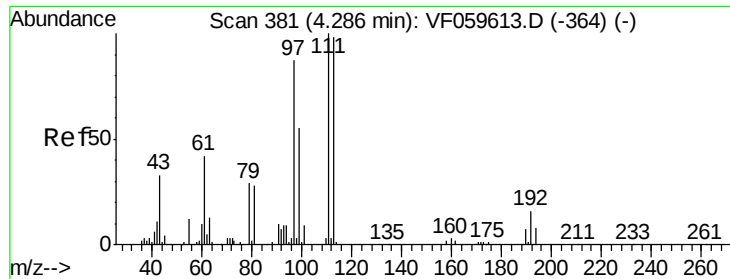
apatel
7/24/2018 1:13:21 PM



#36
1,1-Dichloropropene
Concen: 5.18 ug/l
RT: 4.45 min Scan# 398
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	30.3	14.2	42.6
77	38.9	20.3	30.5#





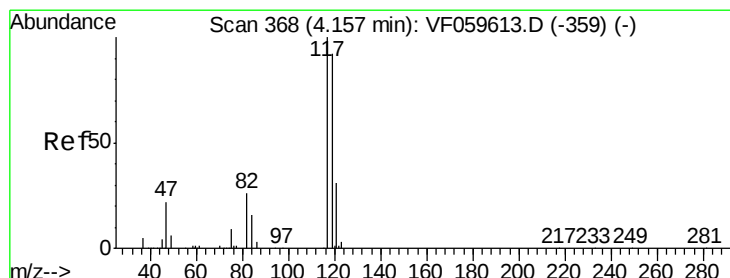
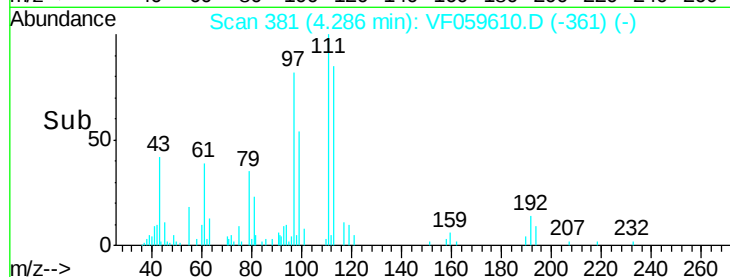
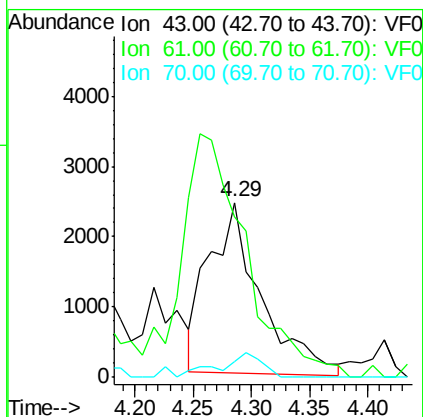
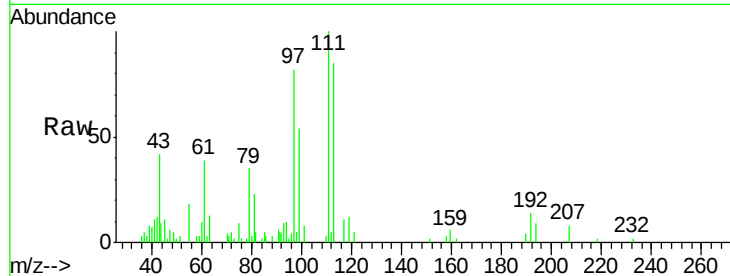
#37
Ethyl Acetate
Concen: 3.82 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	91.5	101.9	152.9#
70	9.3	7.9	11.9

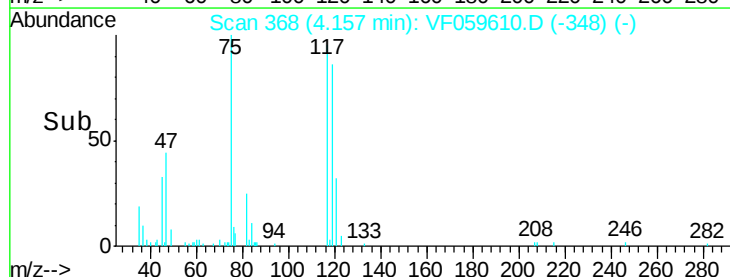
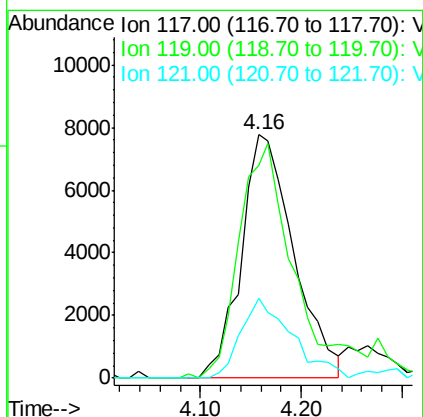
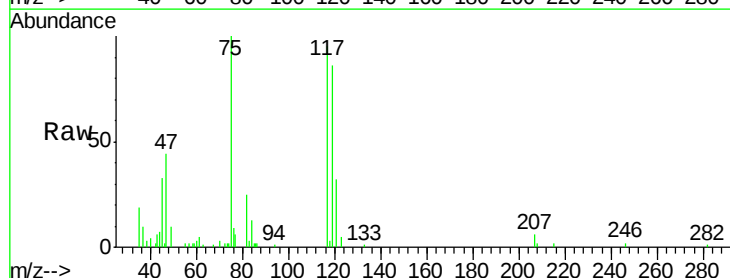
Manual Integrations
APPROVED

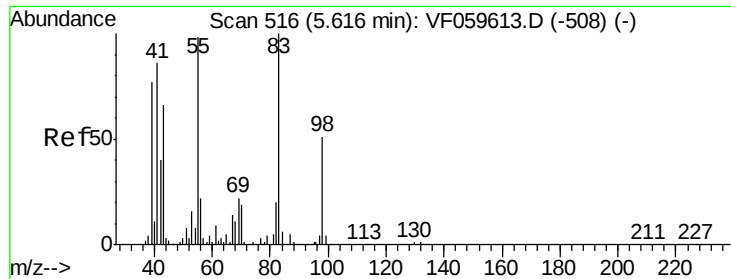
apatel
7/24/2018 1:13:21 PM



#38
Carbon Tetrachloride
Concen: 6.65 ug/l
RT: 4.16 min Scan# 368
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	87.4	74.2	111.4
121	32.8	24.7	37.1





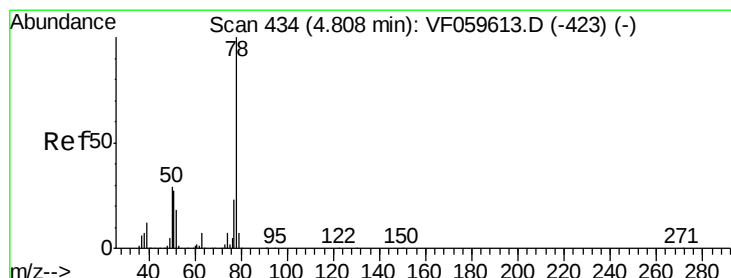
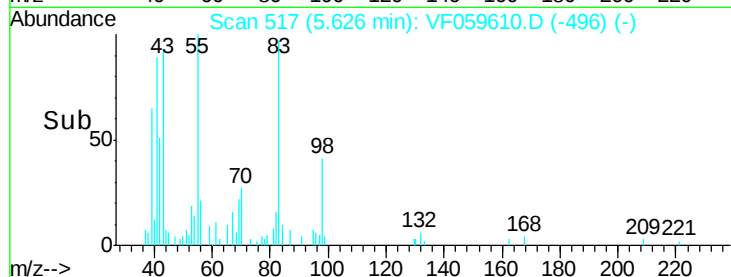
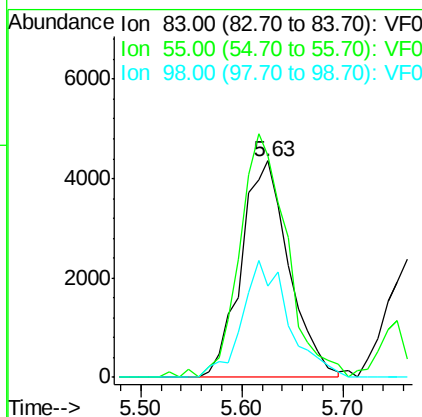
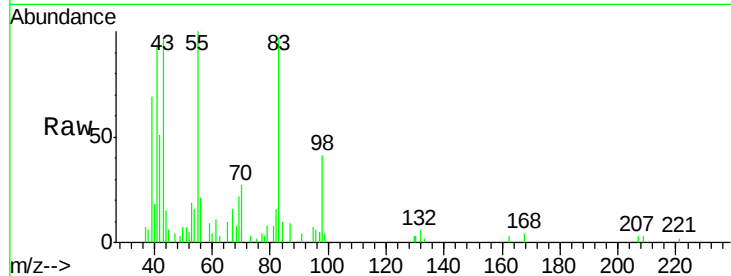
#39
Methvlcvclohexane
Concen: 5.47 ug/l
RT: 5.63 min Scan# 517
Delta R.T. 0.01 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	102.8	78.5	117.7
98	41.9	41.1	61.7

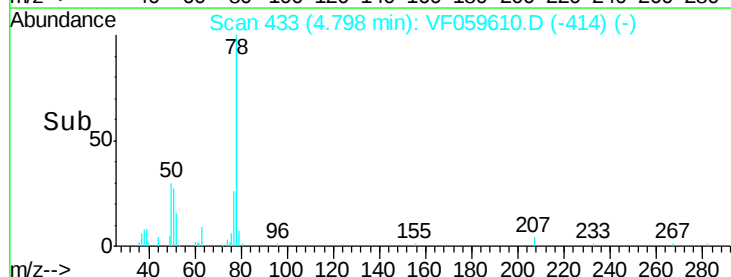
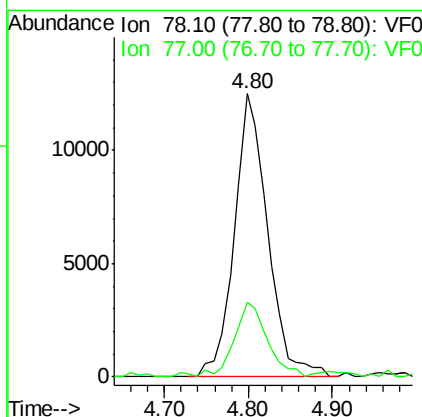
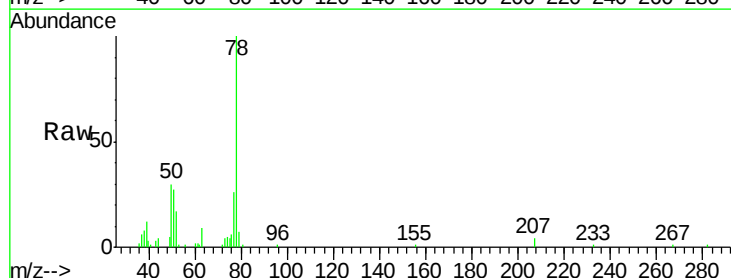
Manual Integrations
APPROVED

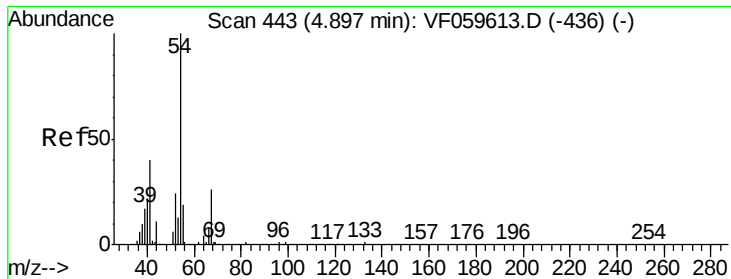
apatel
7/24/2018 1:13:21 PM



#40
Benzene
Concen: 5.27 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.01 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.4	18.4	27.6





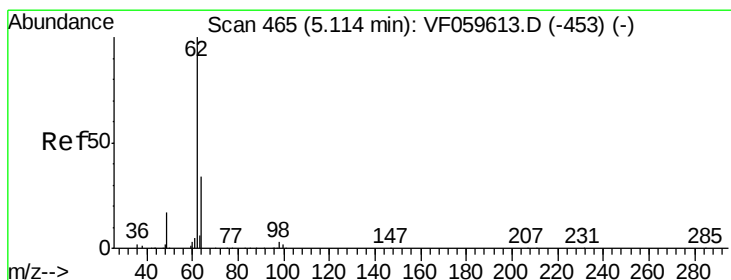
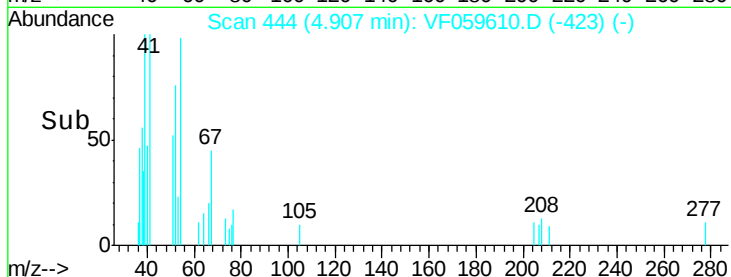
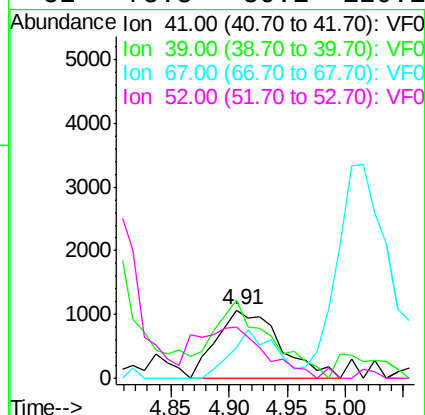
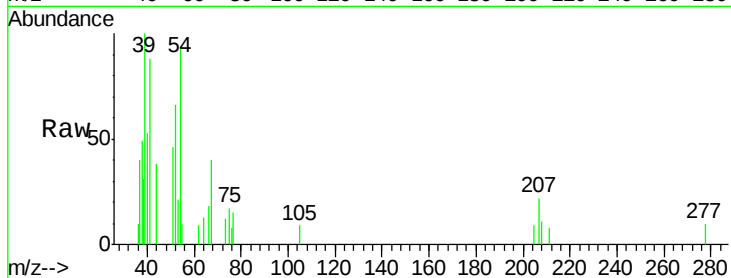
#41
Methacrylonitrile
Concen: 4.16 ug/l
RT: 4.91 min Scan# 444
Delta R.T. 0.01 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	114.3	58.2	87.4#
67	45.5	51.0	76.6#
52	75.8	80.1	120.1#

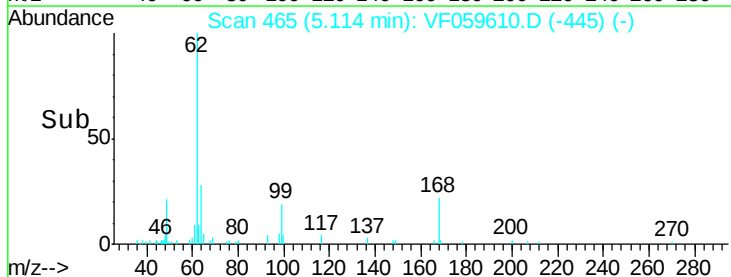
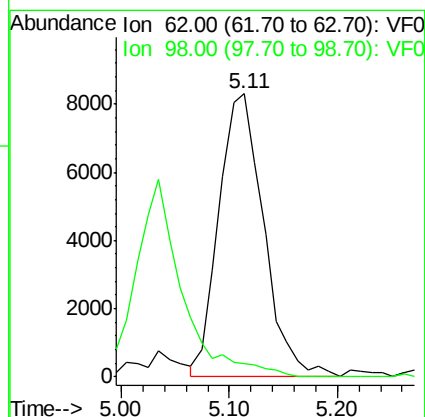
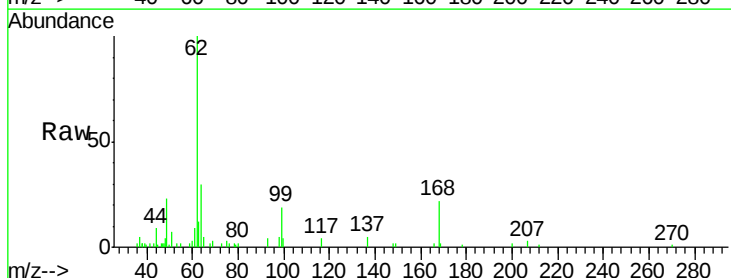
Manual Integrations
APPROVED

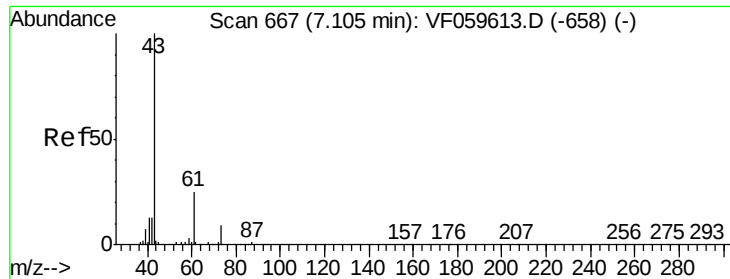
apatel
7/24/2018 1:13:21 PM



#42
1,2-Dichloroethane
Concen: 5.53 ug/l
RT: 5.11 min Scan# 465
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.8	0.0	8.4





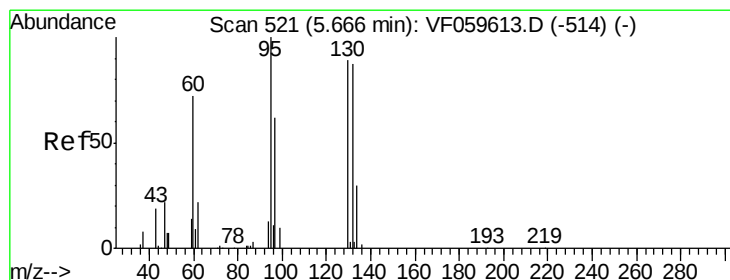
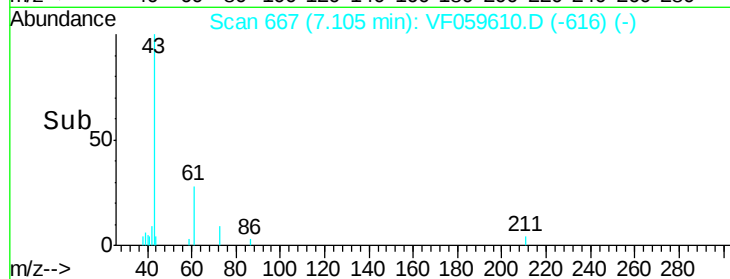
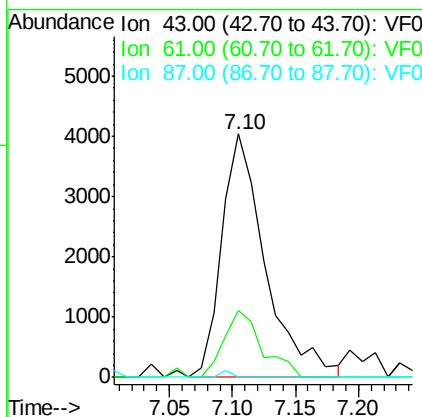
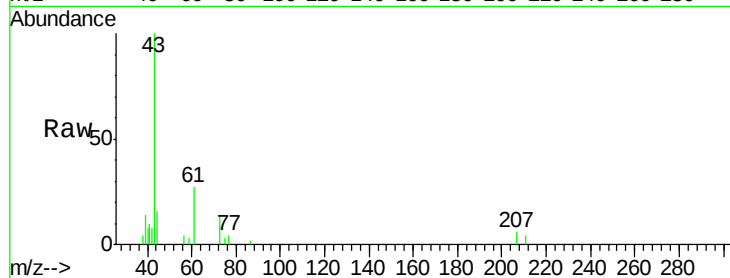
#43
Isopropyl Acetate
Concen: 4.13 ug/l
RT: 7.10 min Scan# 667
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.3	20.1	30.1
87	0.0	0.5	0.7#

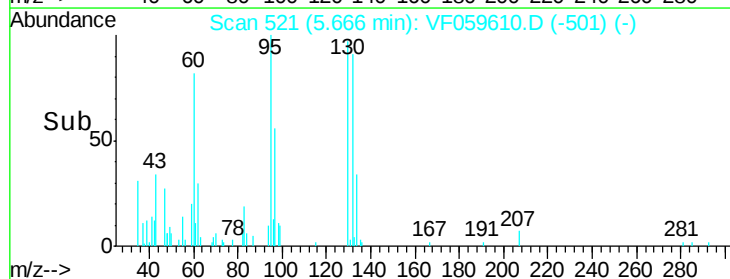
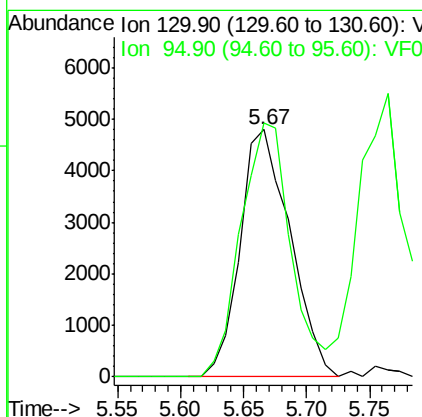
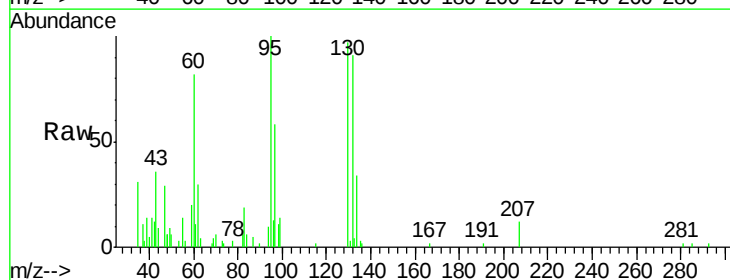
Manual Integrations
APPROVED

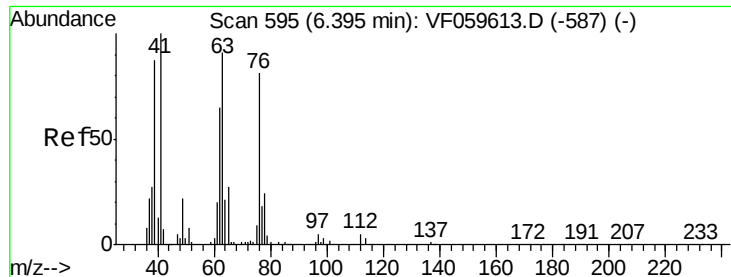
apatel
7/24/2018 1:13:21 PM



#44
Trichloroethene
Concen: 5.37 ug/l
RT: 5.67 min Scan# 521
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	226.4





#45

1,2-Dichloropropane

Concen: 4.90 ug/l

RT: 6.40 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 8874

Ion Ratio Lower Upper

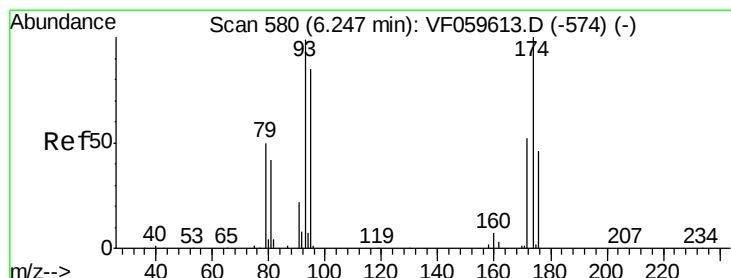
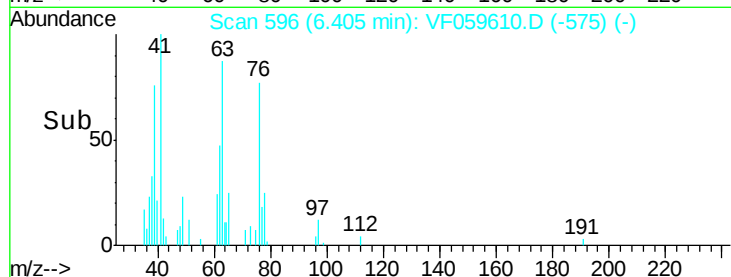
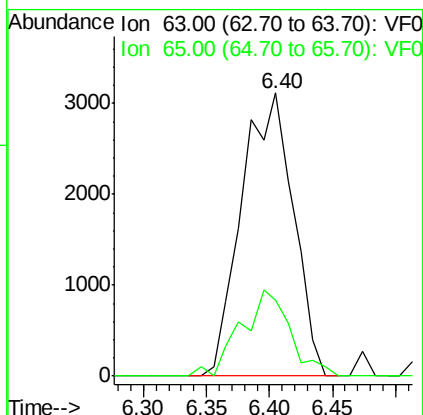
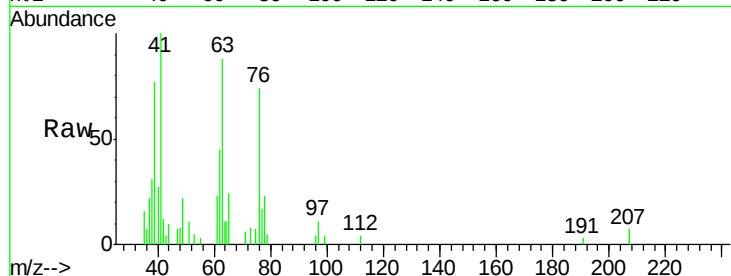
63 100

65 26.8 23.4 35.0

Manual Integrations
APPROVED

apatel

7/24/2018 1:13:21 PM



#46

Dibromomethane

Concen: 4.34 ug/l

RT: 6.25 min Scan# 580

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

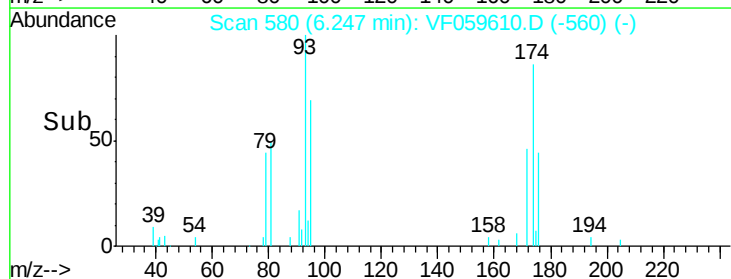
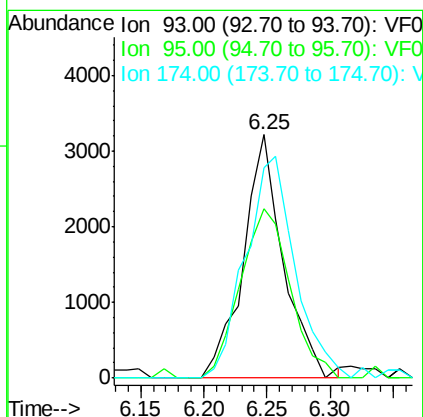
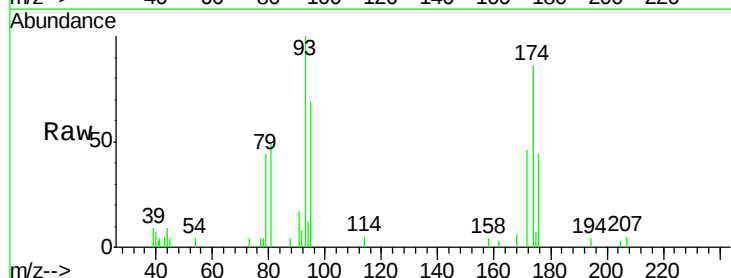
Tgt Ion: 93 Resp: 7130

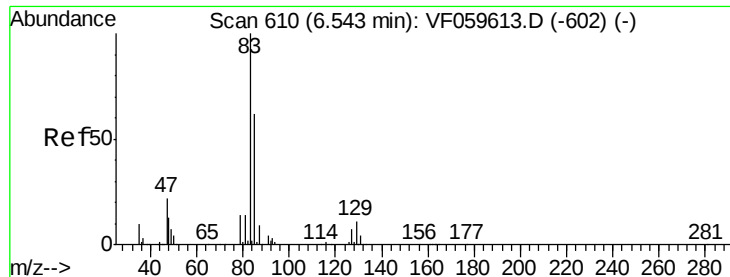
Ion Ratio Lower Upper

93 100

95 69.4 68.6 102.8

174 86.1 80.8 121.2





#47

Bromodichloromethane

Concen: 5.27 ug/l

RT: 6.54 min Scan# 610

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

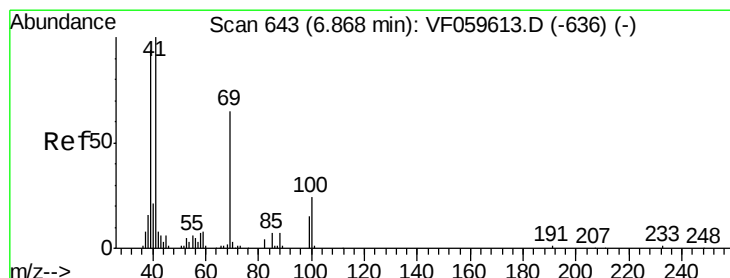
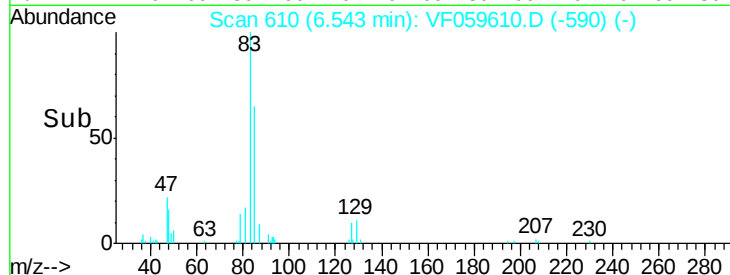
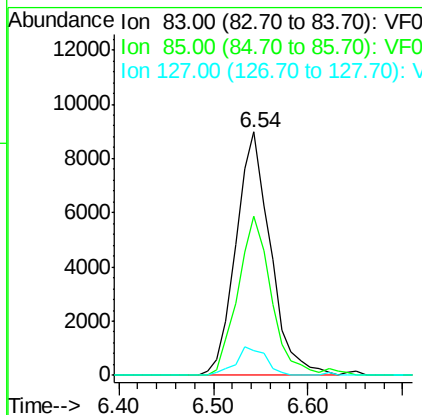
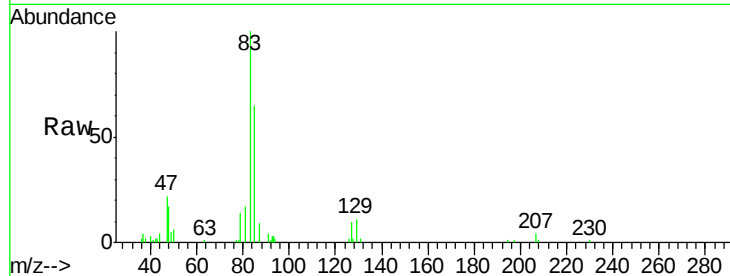
VSTDIC005

Tot Ion:	83	Resp:	22759
Ion	Ratio	Lower	Upper
83	100		
85	65.2	49.4	74.0
127	11.8	5.9	8.9#

Manual Integrations
APPROVED

apatel

7/24/2018 1:13:21 PM



#48

Methyl methacrylate

Concen: 4.38 ug/l

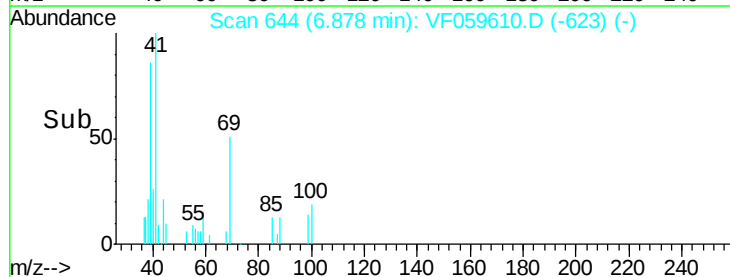
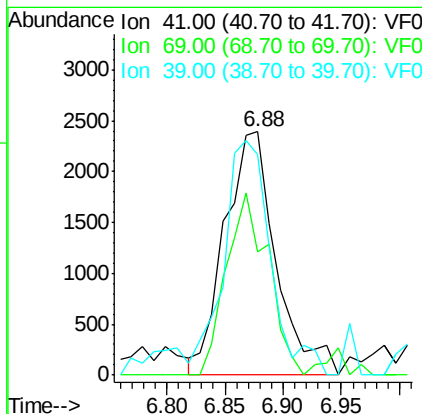
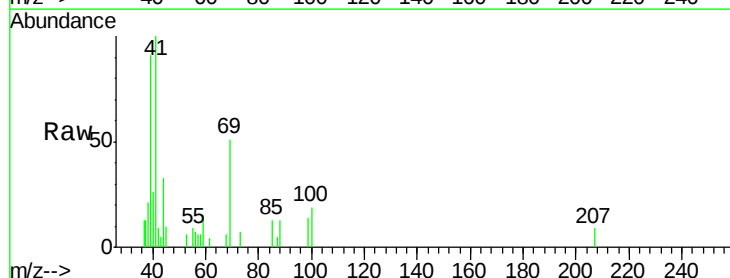
RT: 6.88 min Scan# 644

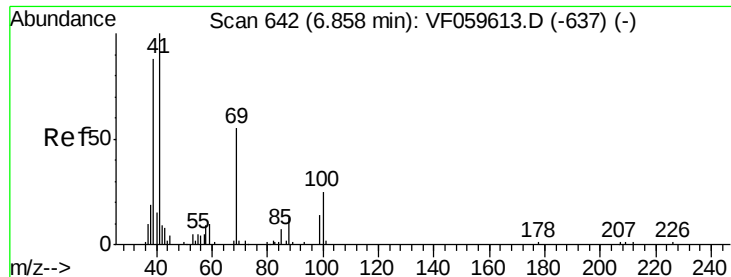
Delta R.T. 0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion:	41	Resp:	7316
Ion	Ratio	Lower	Upper
41	100		
69	50.7	51.6	77.4#
39	90.6	76.3	114.5





#49

1,4-Dioxane

Concen: 182.02 ug/l

RT: 6.86 min Scan# 642

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

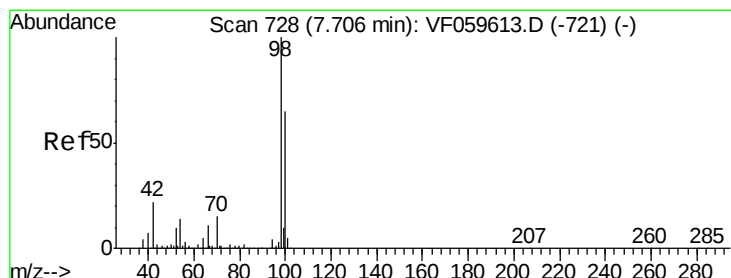
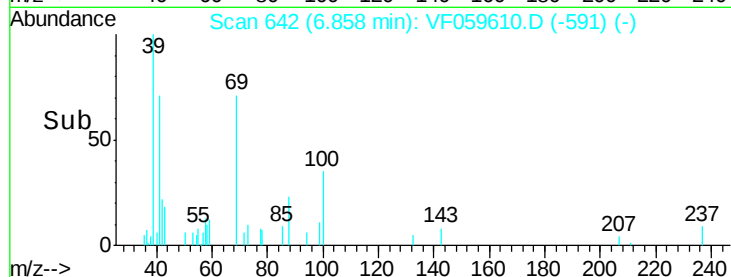
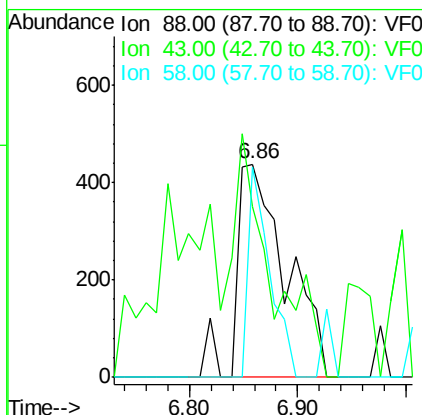
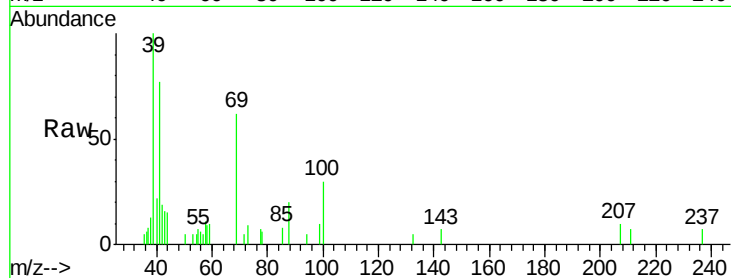
ClientSampleId :

VSTDIC005

Tot Ion:	88	Resp:	1403
Ion	Ratio	Lower	Upper
88	100		
43	79.9	54.2	81.4
58	98.4	54.3	81.5#

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#50

Toluene-d8

Concen: 5.00 ug/l

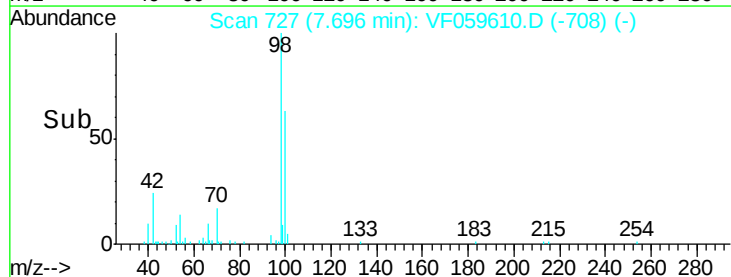
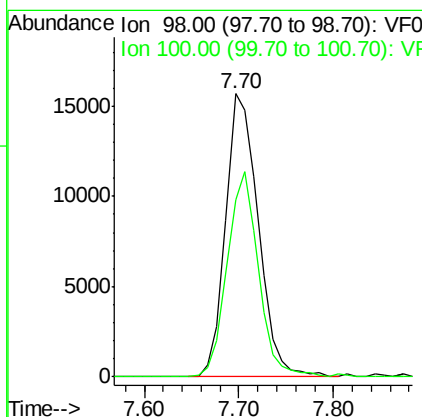
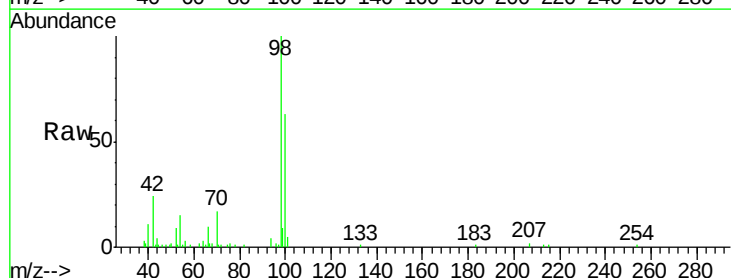
RT: 7.70 min Scan# 727

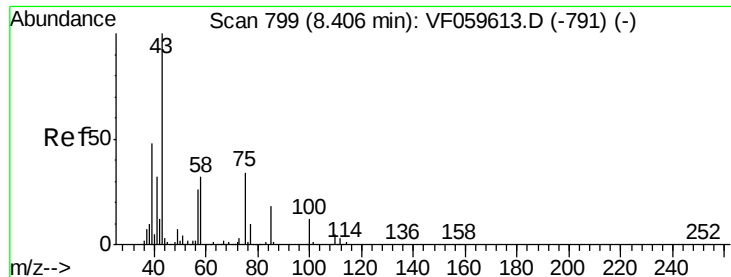
Delta R.T. -0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion:	98	Resp:	37509
Ion	Ratio	Lower	Upper
98	100		
100	62.7	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 23.52 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 38756

Ion Ratio Lower Upper

43 100

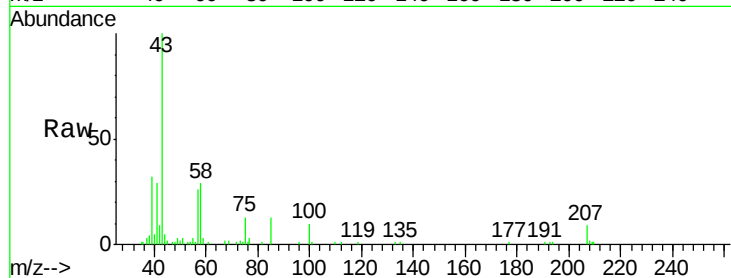
58 28.5 25.8 38.6

Manual Integrations

APPROVED

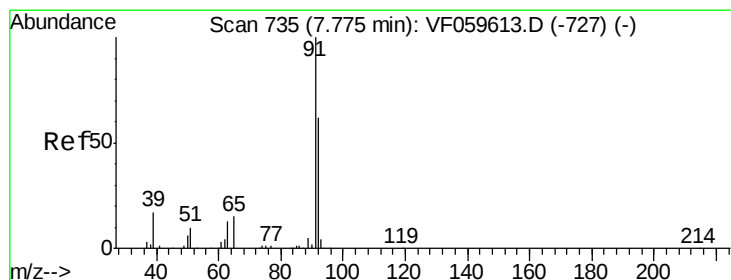
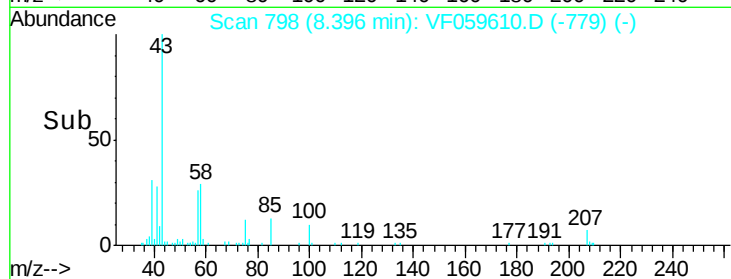
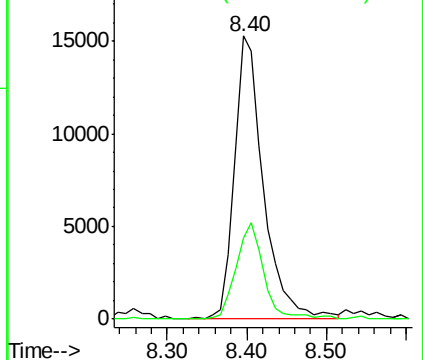
apatel

7/24/2018 1:13:21 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 5.70 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059610.D

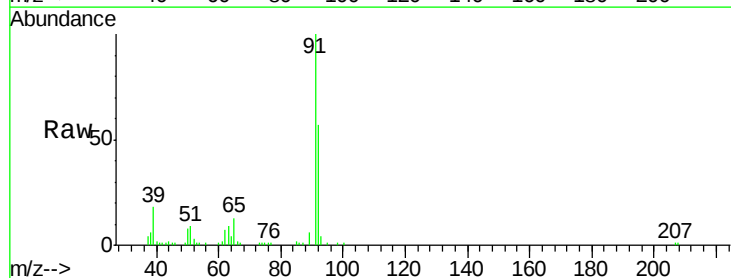
Acq: 23 Jul 2018 12:55

Tgt Ion: 92 Resp: 27303

Ion Ratio Lower Upper

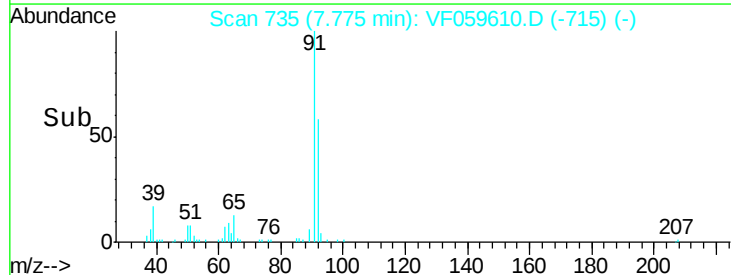
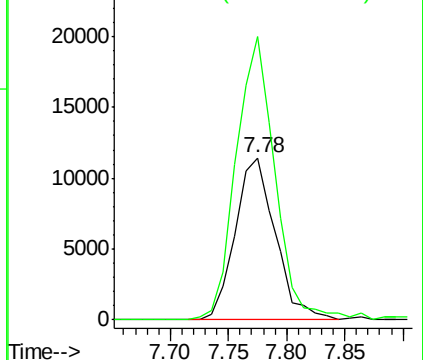
92 100

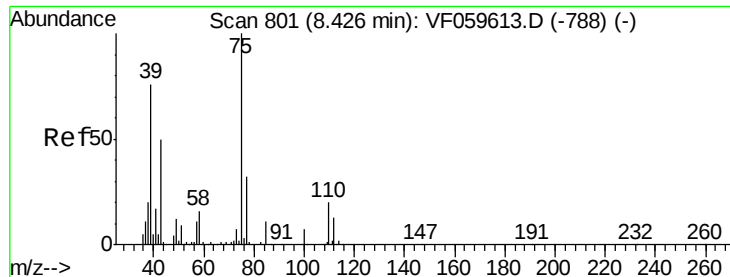
91 174.6 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 4.92 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 19240

Ion Ratio Lower Upper

75 100

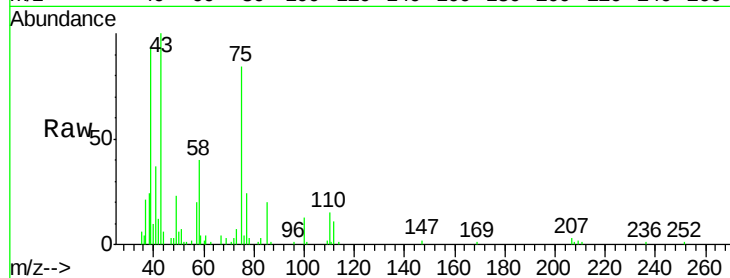
77 29.2 25.6 38.4

Manual Integrations

APPROVED

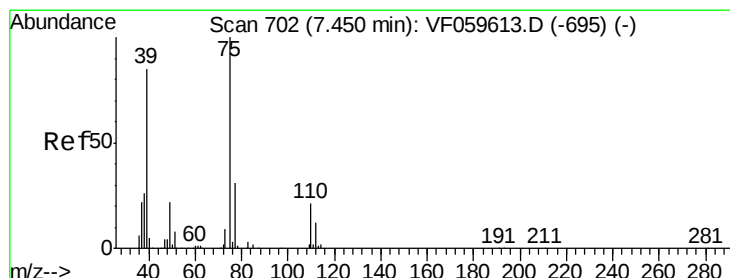
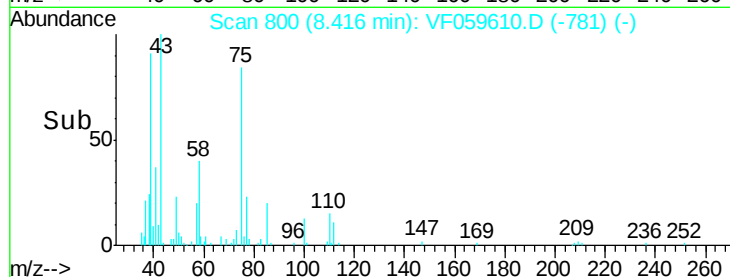
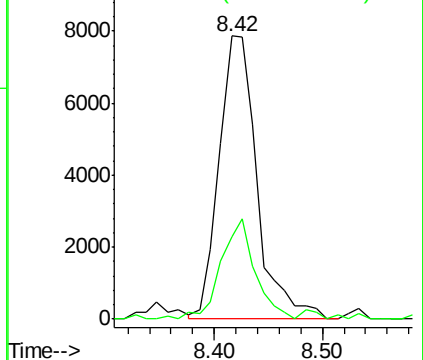
apatel

7/24/2018 1:13:21 PM



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 4.90 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

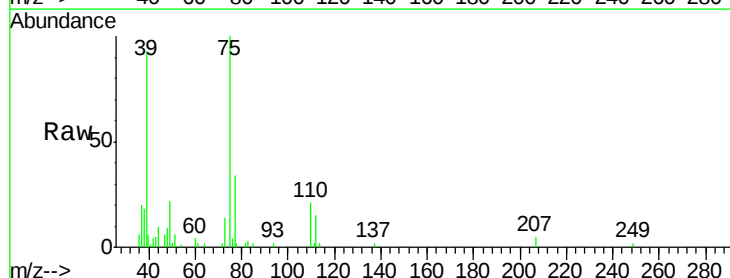
Tgt Ion: 75 Resp: 19062

Ion Ratio Lower Upper

75 100

77 34.4 24.6 37.0

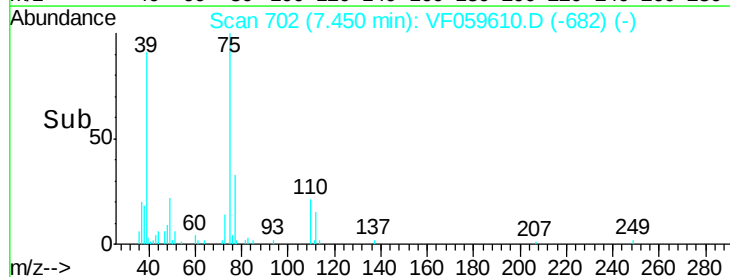
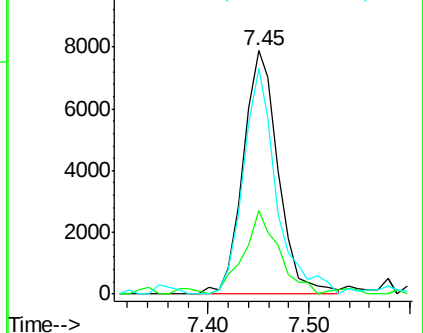
39 92.9 67.8 101.6

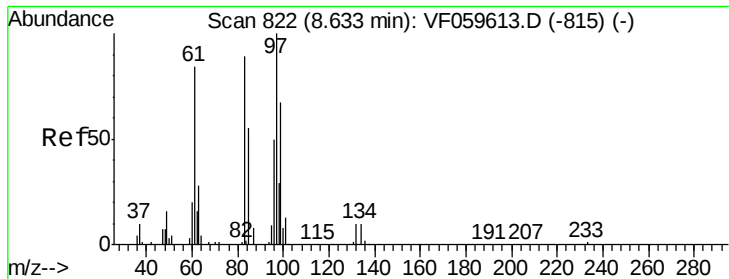


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 5.07 ug/l

RT: 8.63 min Scan# 822

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

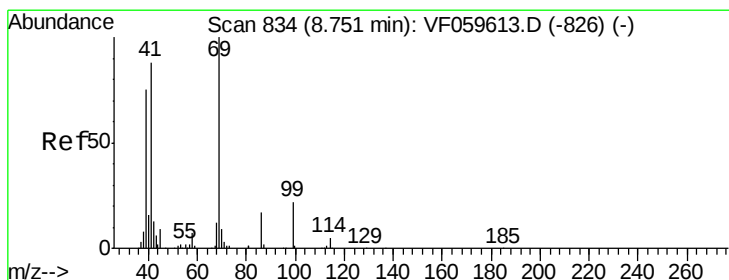
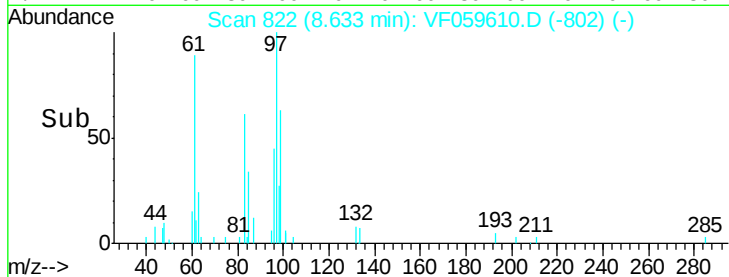
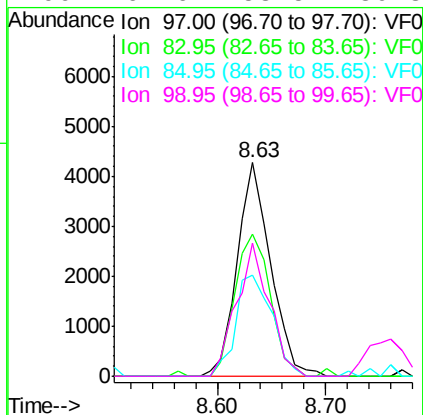
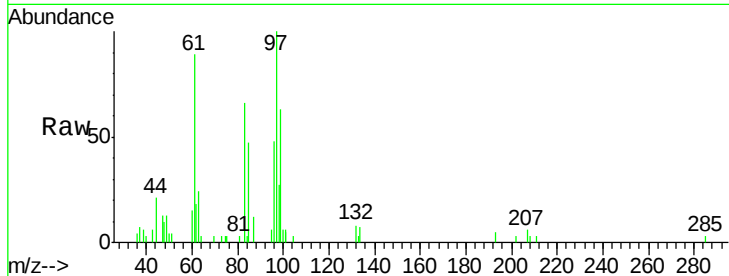
ClientSampleId :

VSTDIC005

Tot Ion:	97	Resp:	9222
Ion	Ratio	Lower	Upper
97	100		
83	66.4	71.8	107.6#
85	47.5	43.9	65.9
99	62.6	53.5	80.3

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#56

Ethyl methacrylate

Concen: 4.51 ug/l

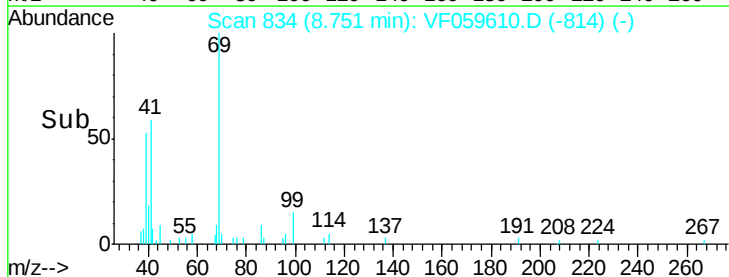
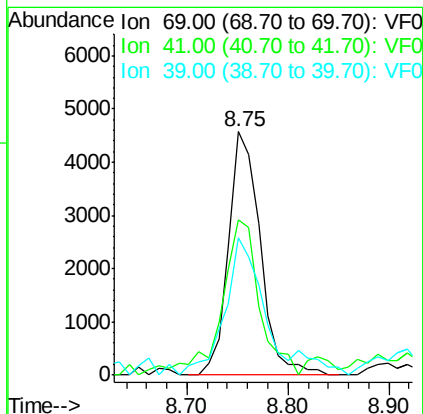
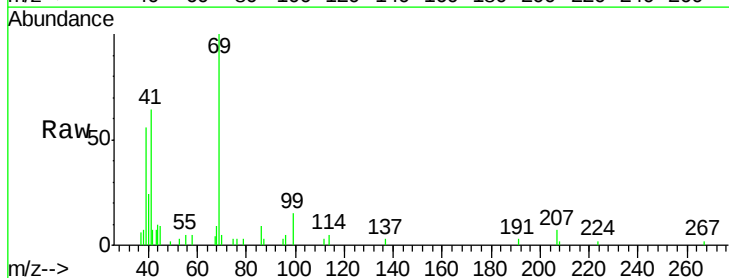
RT: 8.75 min Scan# 834

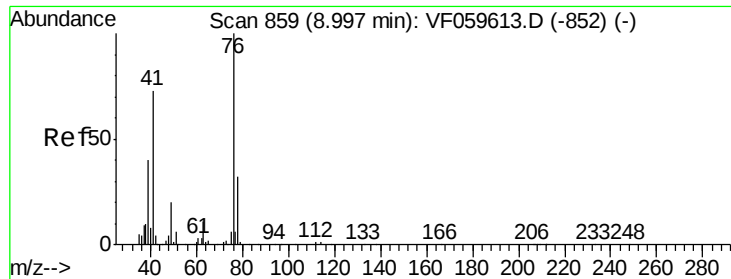
Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion:	69	Resp:	10032
Ion	Ratio	Lower	Upper
69	100		
41	63.8	70.8	106.2#
39	56.3	60.7	91.1#





#57

1,3-Dichloropropane

Concen: 5.00 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 16106

Ion Ratio Lower Upper

76 100

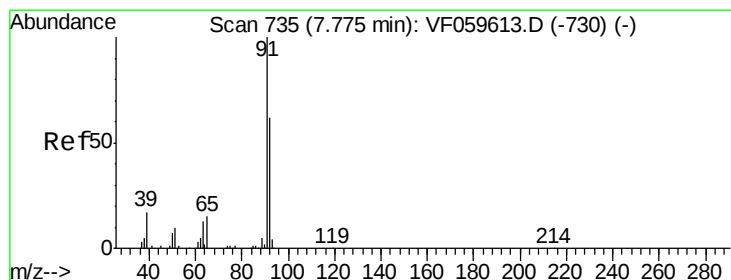
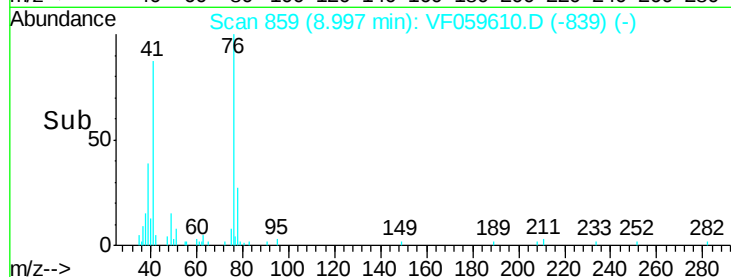
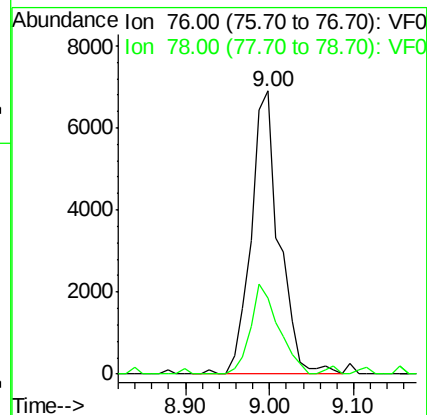
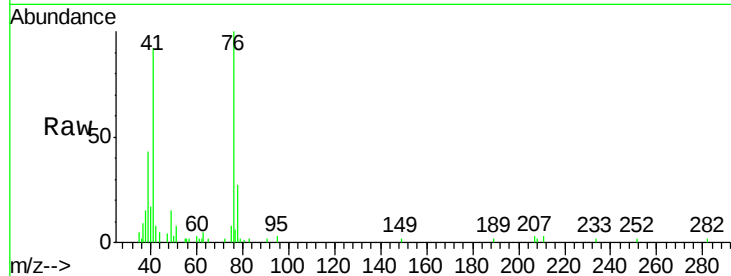
78 26.9 25.3 37.9

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



#58

2-Chloroethyl Vinyl ether

Concen: 27.05 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF059610.D

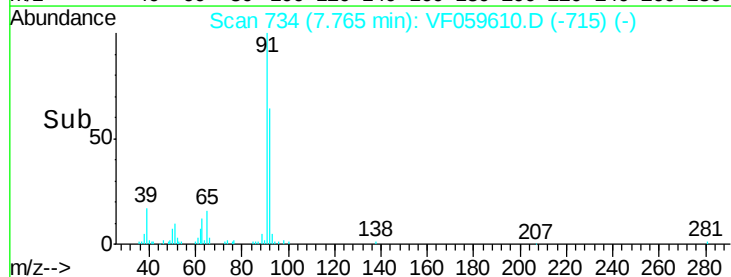
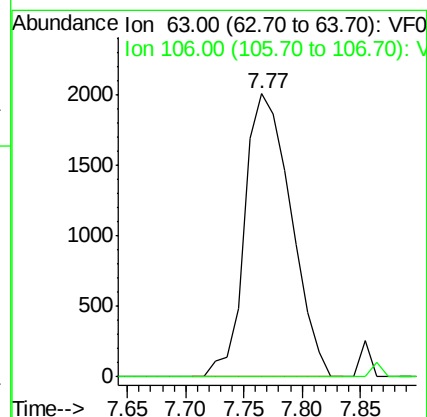
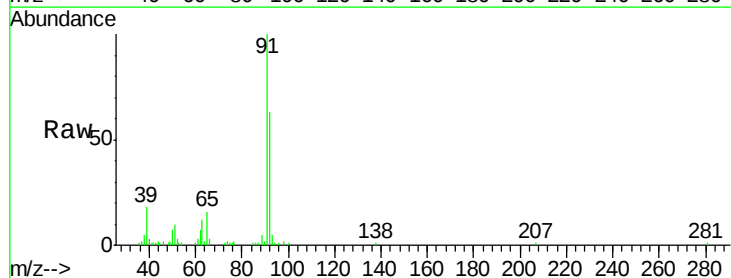
Acq: 23 Jul 2018 12:55

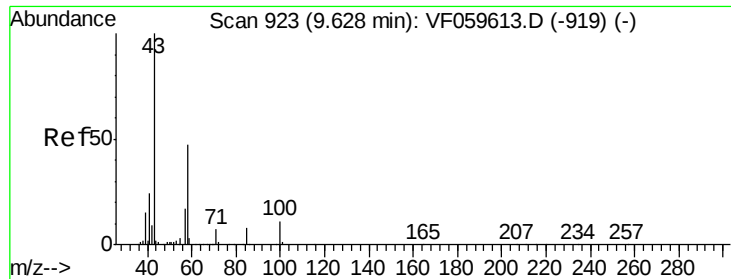
Tgt Ion: 63 Resp: 5536

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





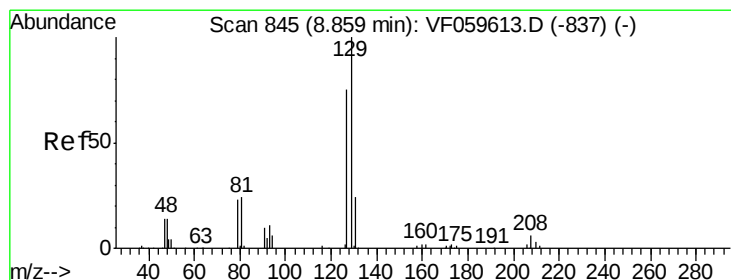
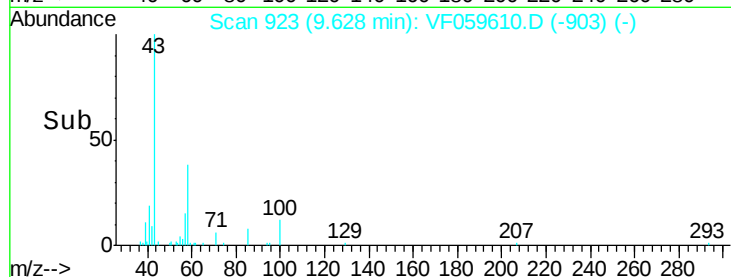
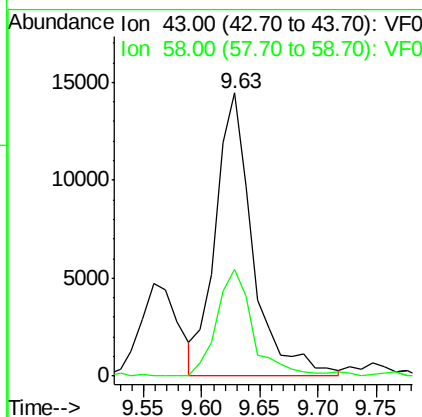
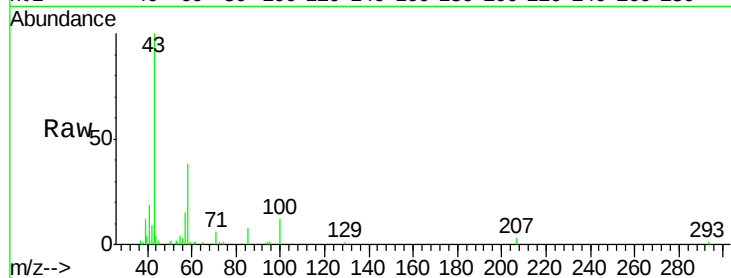
#59
2-Hexanone
Concen: 25.45 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 32021
Ion Ratio Lower Upper
43 100
58 37.7 21.1 63.4

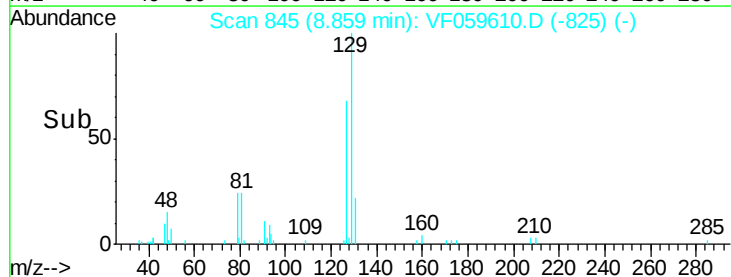
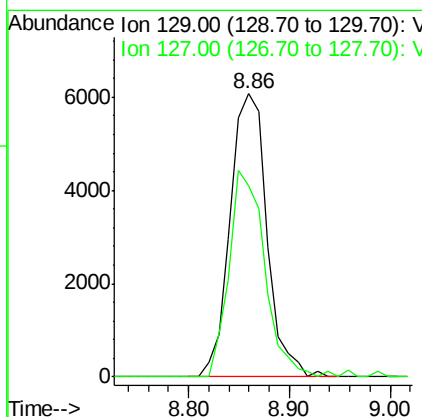
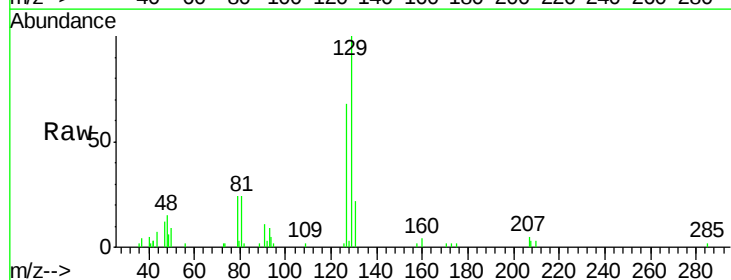
Manual Integrations
APPROVED

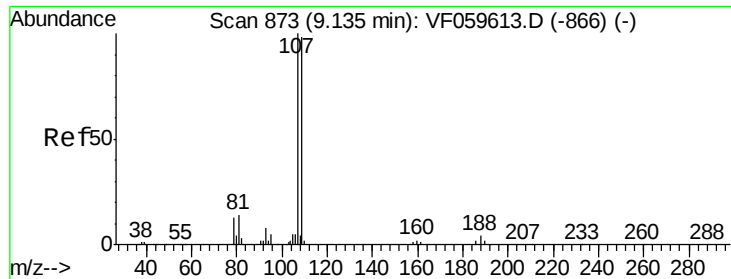
apatel
7/24/2018 1:13:21 PM



#60
Dibromochloromethane
Concen: 4.96 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion: 129 Resp: 15398
Ion Ratio Lower Upper
129 100
127 67.7 37.5 112.7





#61

1,2-Dibromoethane

Concen: 4.09 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 107 Resp: 9262

Ion Ratio Lower Upper

107 100

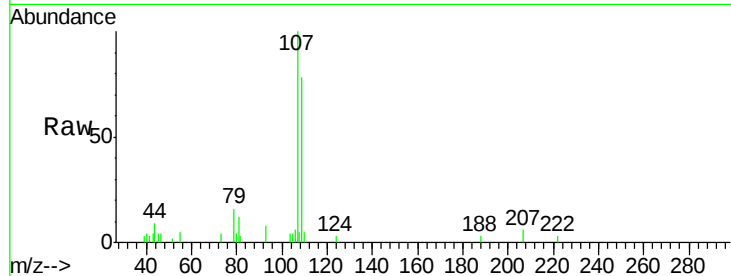
109 77.5 78.2 117.4#

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.13

4000

3000

2000

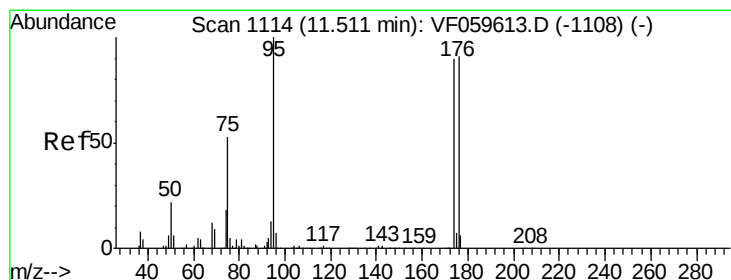
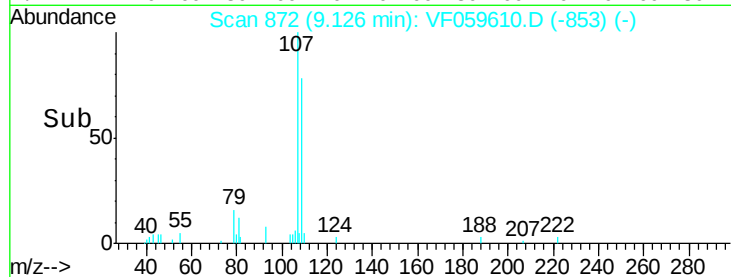
1000

0

9.10

9.20

Time-->



#62

4-Bromofluorobenzene

Concen: 5.46 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

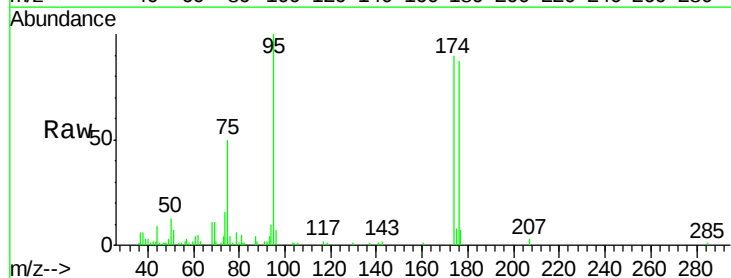
Tgt Ion: 95 Resp: 21866

Ion Ratio Lower Upper

95 100

174 89.6 0.0 180.6

176 86.7 0.0 182.4



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

11.51

15000

10000

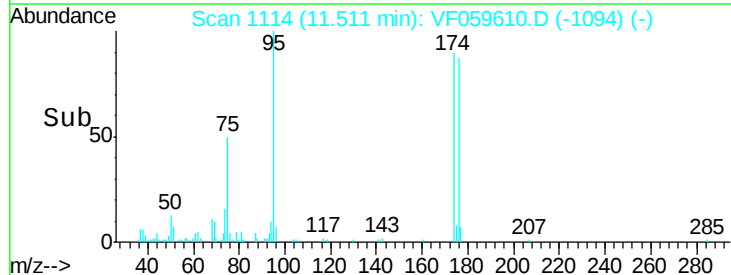
5000

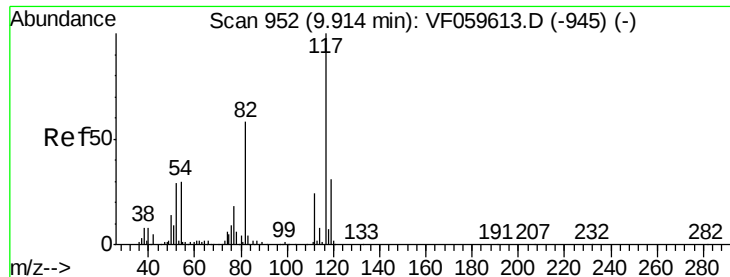
0

11.50

11.60

Time-->





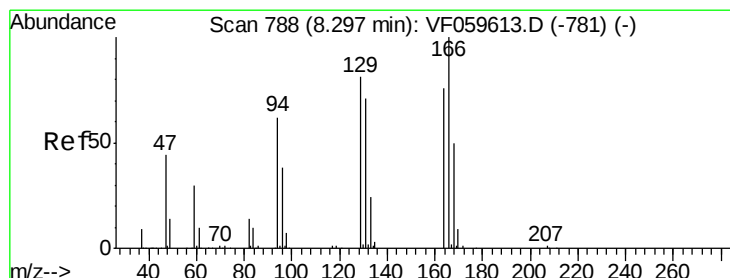
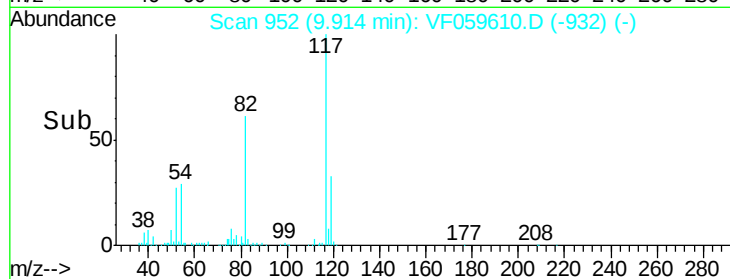
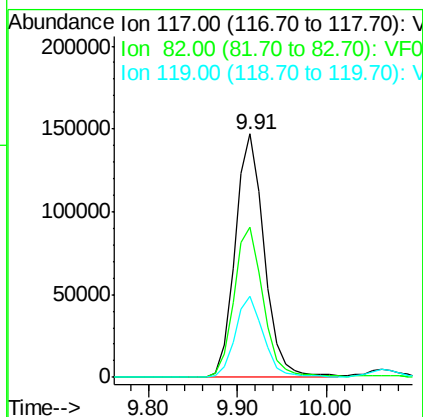
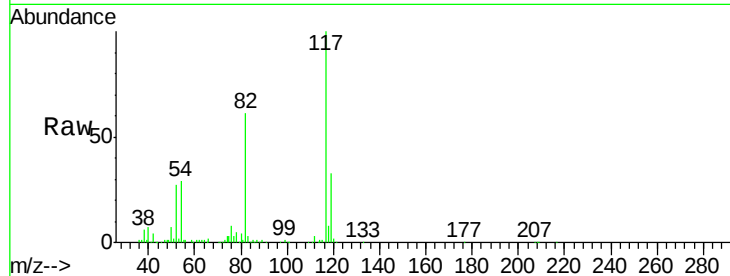
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.5	46.5	69.7
119	33.1	24.4	36.6

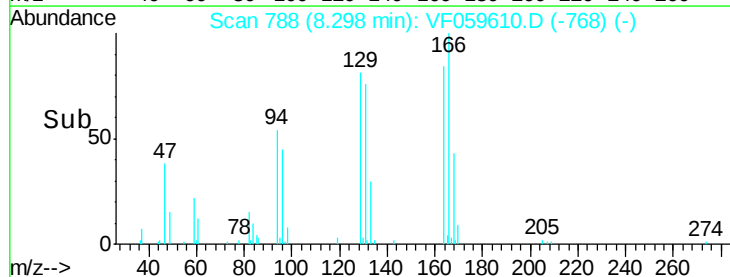
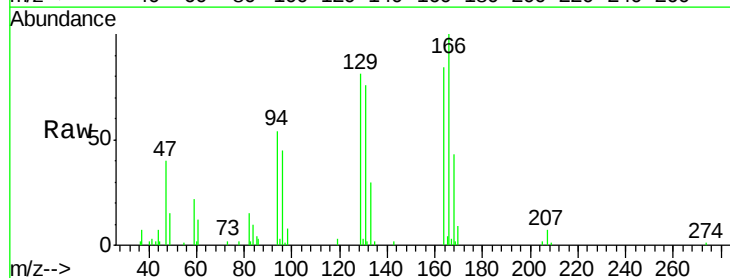
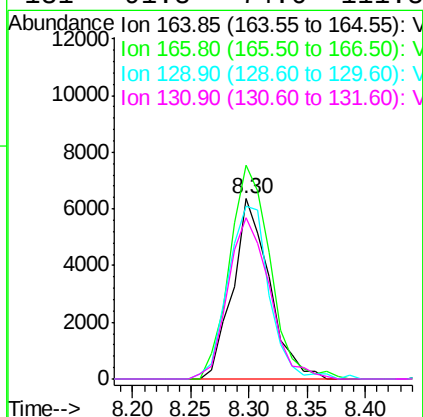
Manual Integrations
APPROVED

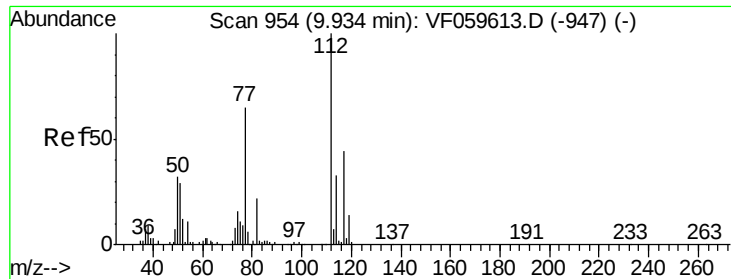
apatel
7/24/2018 1:13:21 PM



#64
Tetrachloroethene
Concen: 5.57 ug/l
RT: 8.30 min Scan# 788
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.6	104.8	157.2
129	95.8	85.3	127.9
131	91.8	74.6	111.8





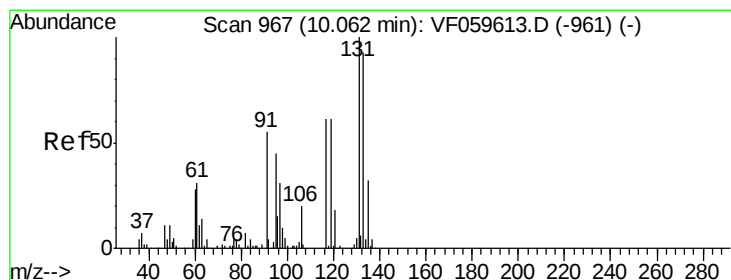
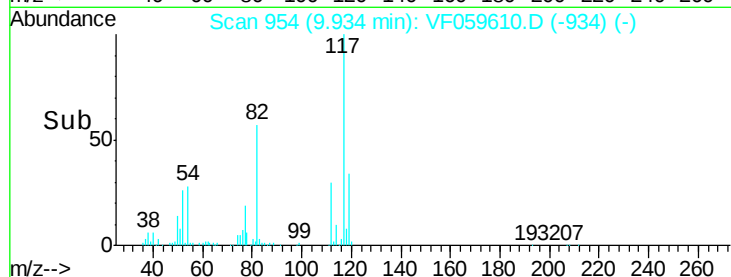
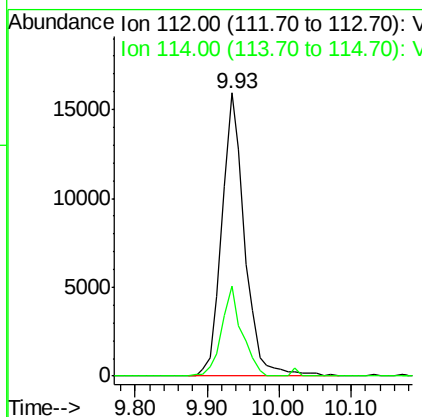
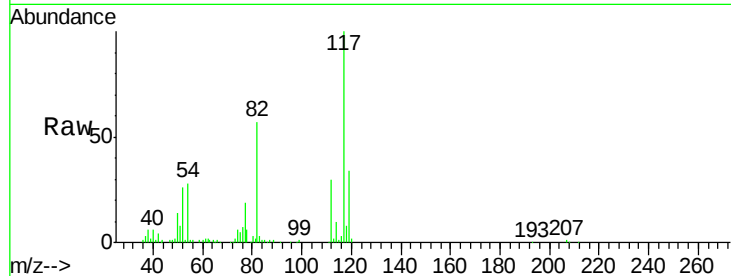
#65
Chlorobenzene
Concen: 5.51 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	26.8	40.2

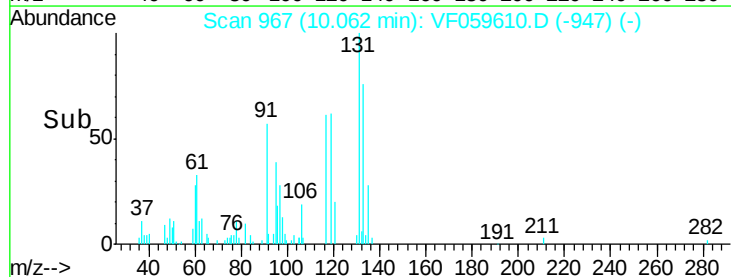
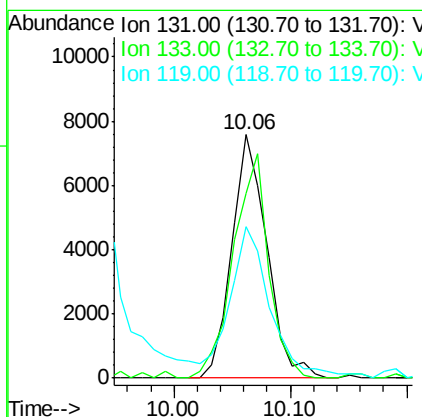
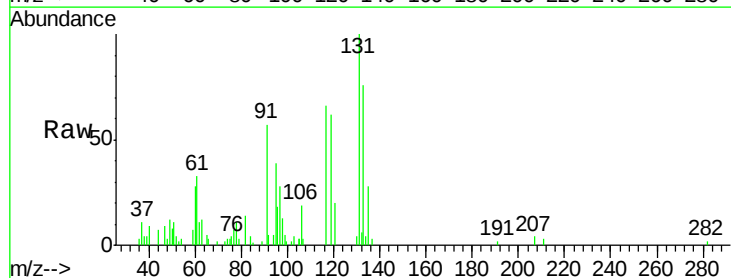
Manual Integrations
APPROVED

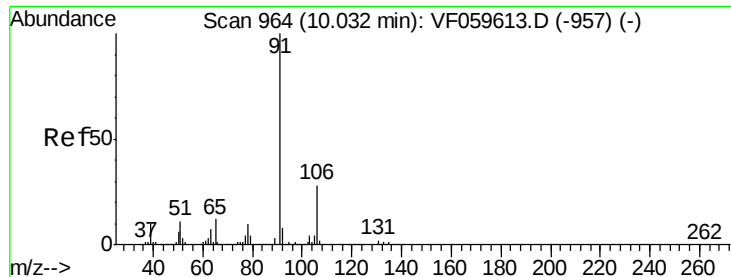
apatel
7/24/2018 1:13:21 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 5.50 ug/l
RT: 10.06 min Scan# 967
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
131	100		
133	75.7	46.4	139.2
119	62.3	30.6	91.8





#67

Ethyl Benzene

Concen: 5.62 ug/l

RT: 10.03 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 62925

Ion Ratio Lower Upper

91 100

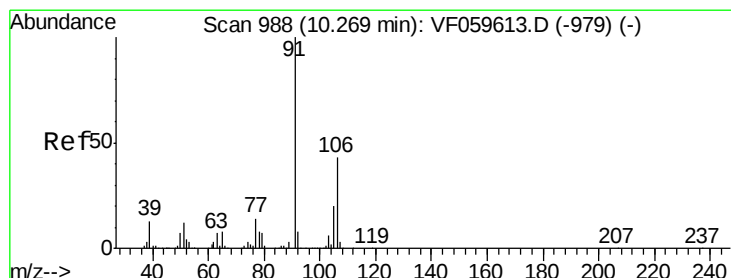
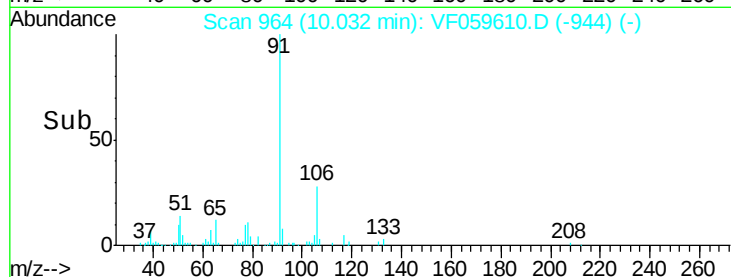
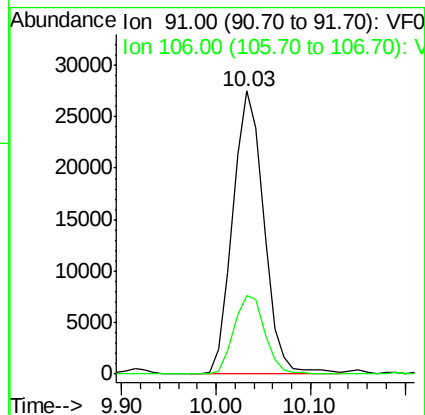
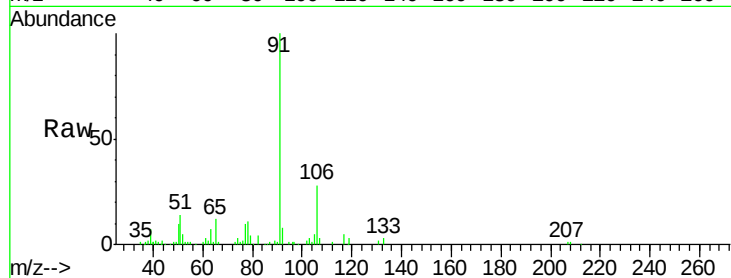
106 27.9 22.5 33.7

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



#68

m/p-Xylenes

Concen: 10.20 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF059610.D

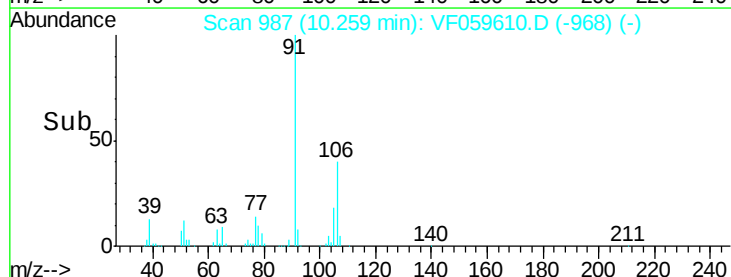
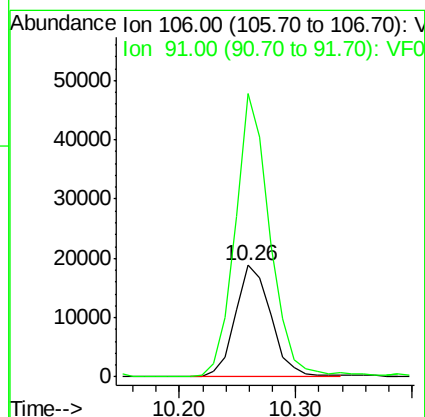
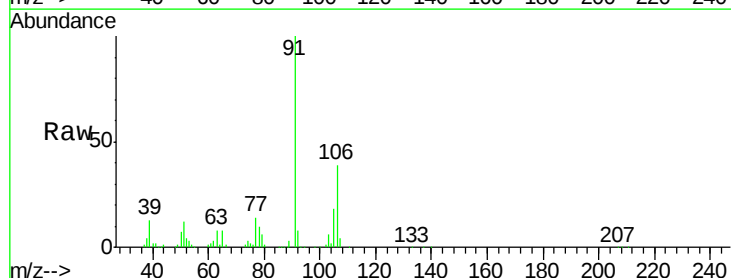
Acq: 23 Jul 2018 12:55

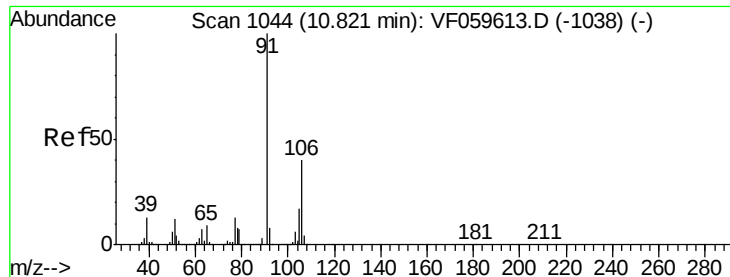
Tgt Ion: 106 Resp: 40085

Ion Ratio Lower Upper

106 100

91 254.3 187.0 280.4





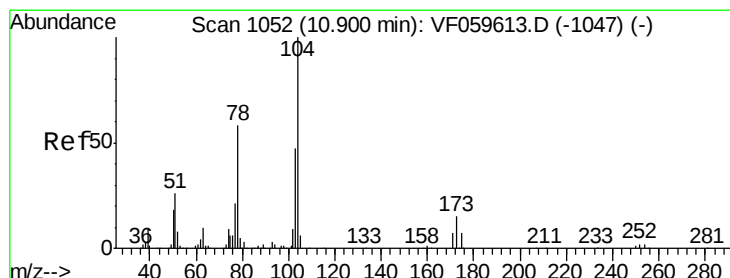
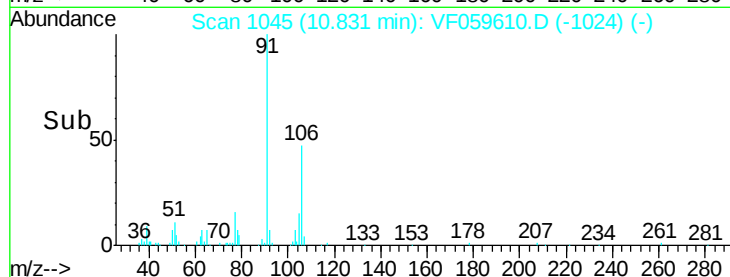
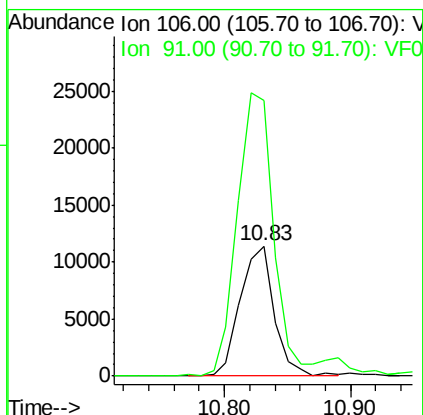
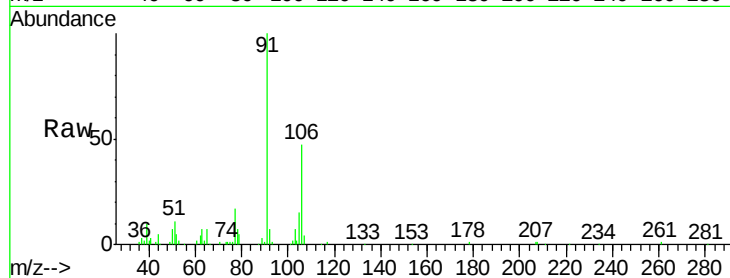
#69
o-Xylene
Concen: 5.07 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.01 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 21425
Ion Ratio Lower Upper
106 100
91 211.5 125.8 377.3

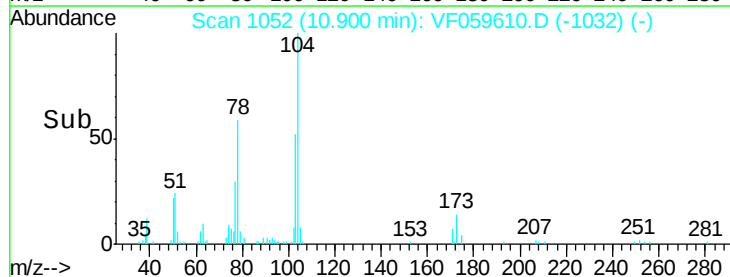
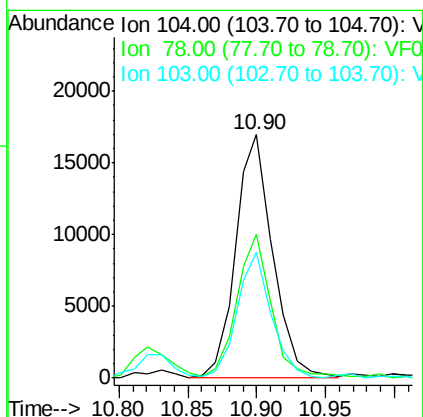
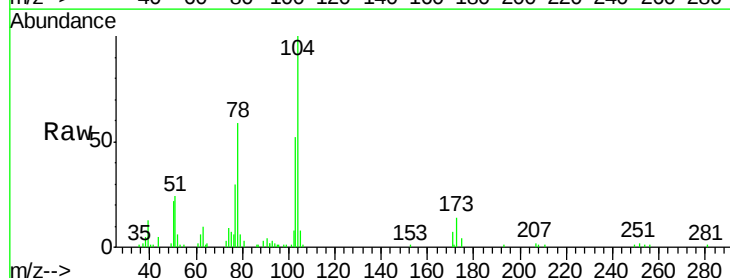
Manual Integrations
APPROVED

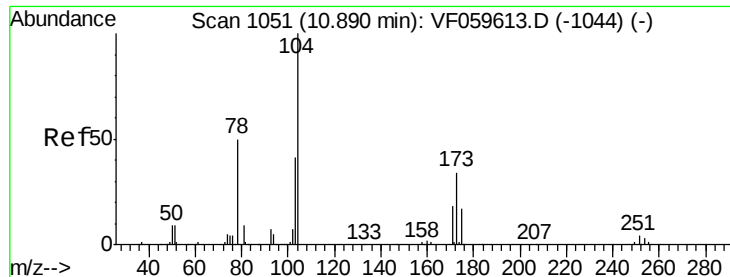
apatel
7/24/2018 1:13:21 PM



#70
Styrene
Concen: 4.91 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion:104 Resp: 31820
Ion Ratio Lower Upper
104 100
78 58.9 47.4 71.2
103 51.6 38.8 58.2





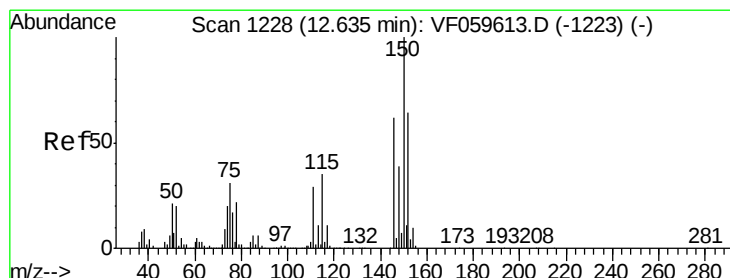
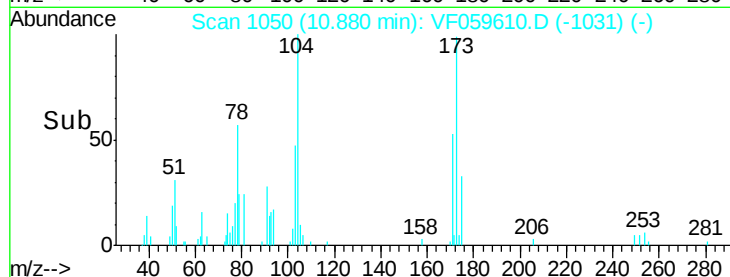
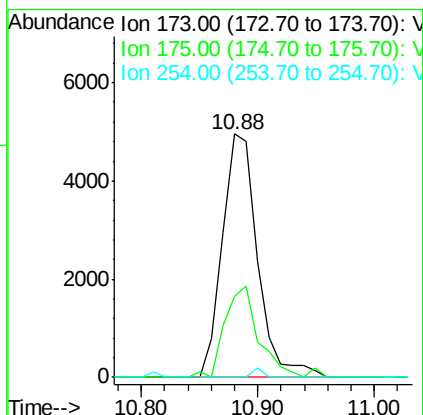
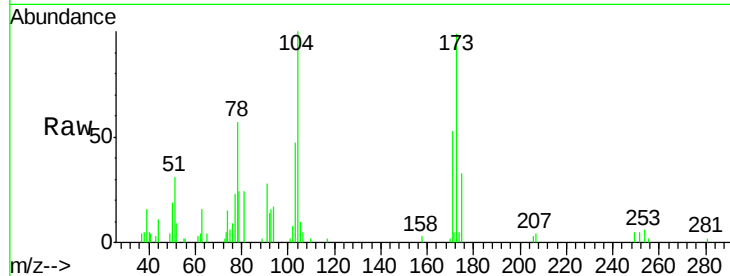
#71
Bromoform
Concen: 5.33 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	33.5	25.1	75.2
254	0.0	0.0	0.0

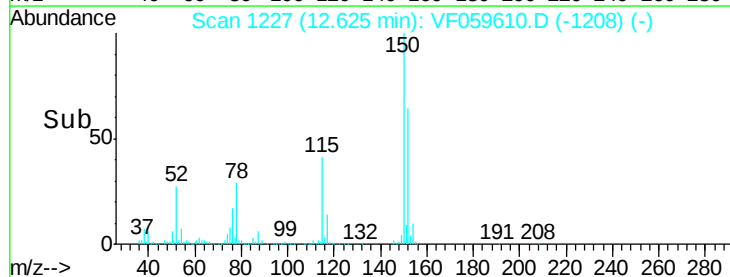
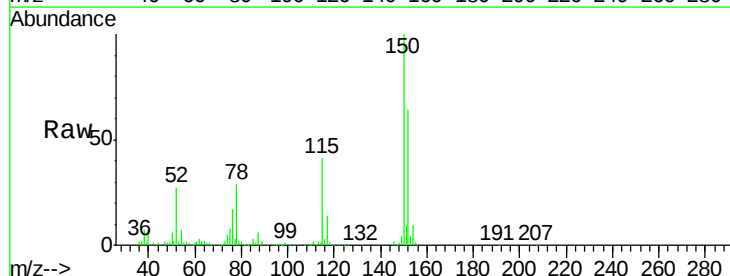
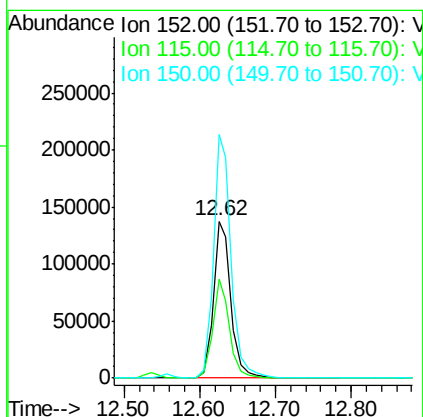
Manual Integrations
APPROVED

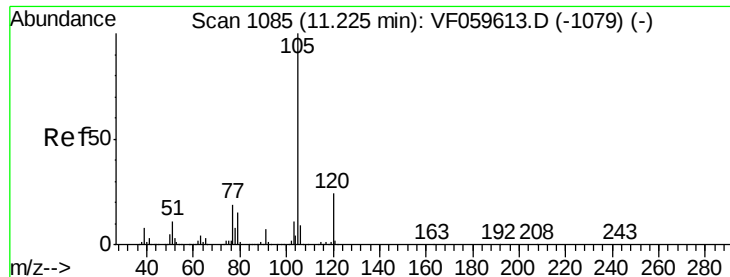
apatel
7/24/2018 1:13:21 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.0	27.8	83.4
150	155.3	0.0	314.6





#73

Isopropylbenzene

Concen: 4.88 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 68549

Ion Ratio Lower Upper

105 100

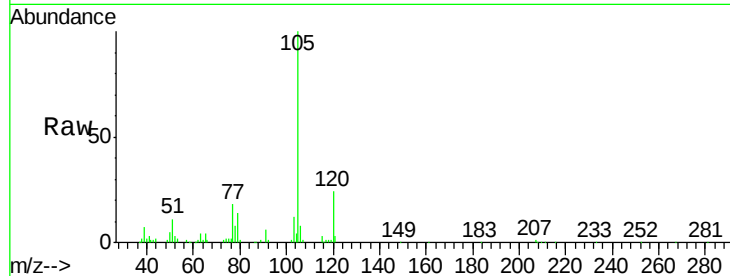
120 24.5 11.8 35.4

Manual Integrations

APPROVED

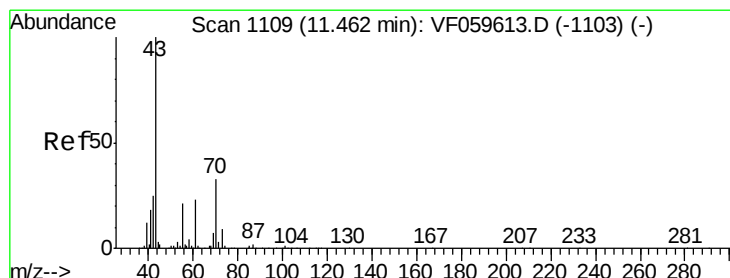
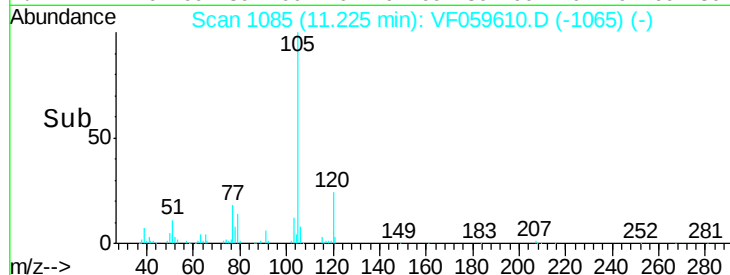
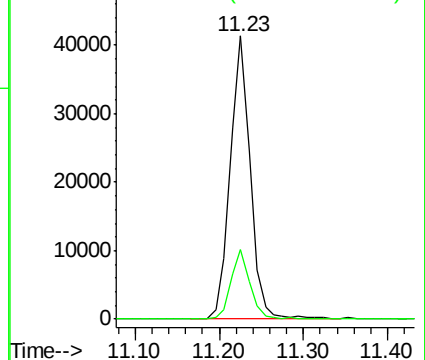
apatel

7/24/2018 1:13:21 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 3.51 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion: 43 Resp: 15147

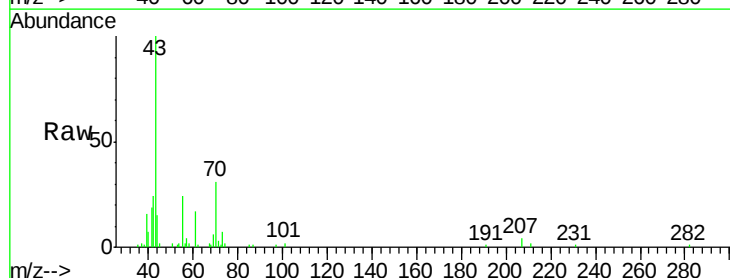
Ion Ratio Lower Upper

43 100

70 30.7 26.6 40.0

55 24.0 17.0 25.6

61 17.3 18.3 27.5#

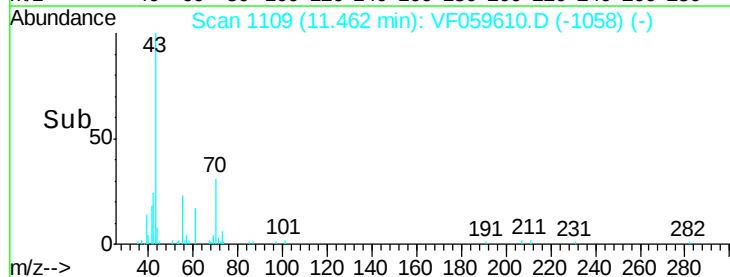
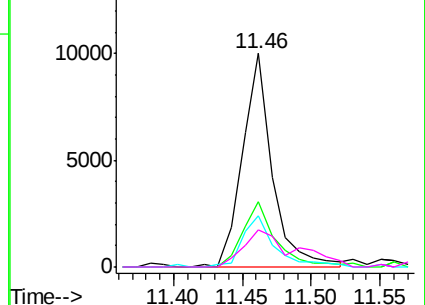


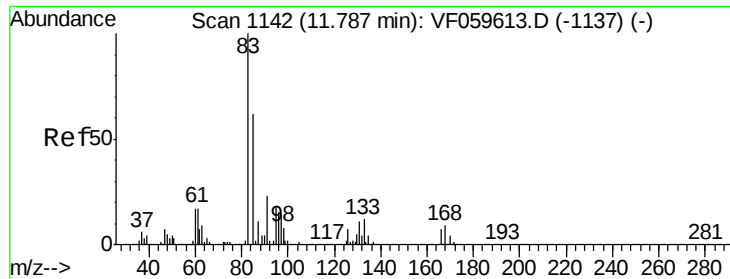
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 4.50 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

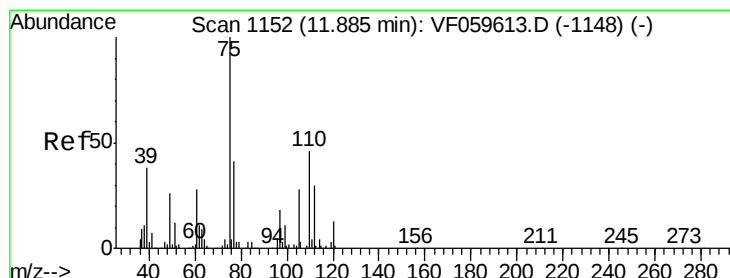
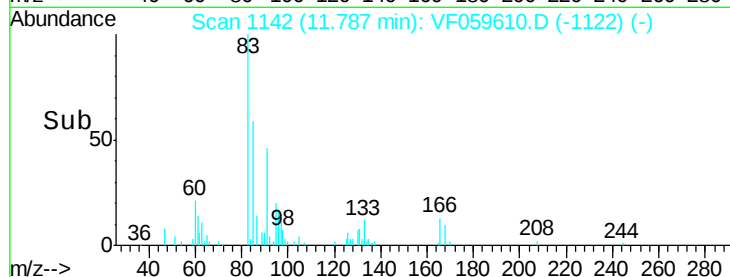
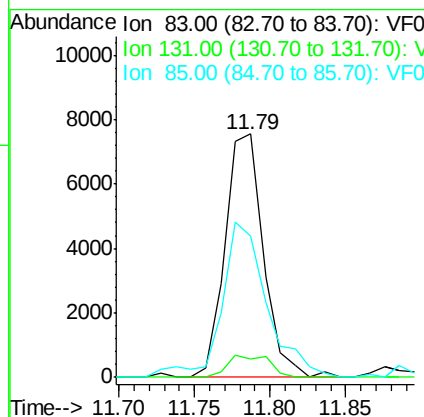
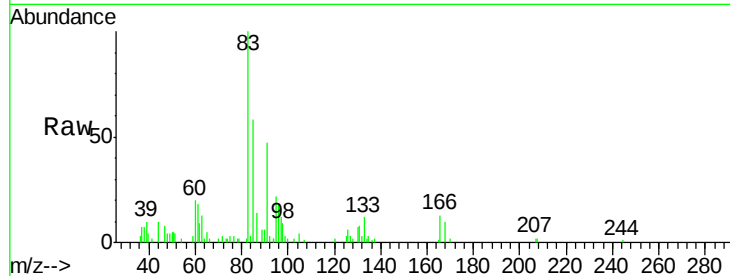
ClientSampleId :

VSTDIC005

Tot Ion	83	Resp	13315
Ion Ratio	Lower	Upper	
83	100		
131	7.6	5.7	17.0
85	58.1	31.1	93.3

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#76

1,2,3-Trichloropropane

Concen: 4.74 ug/l

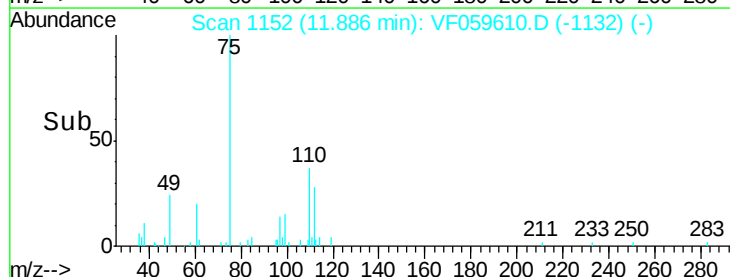
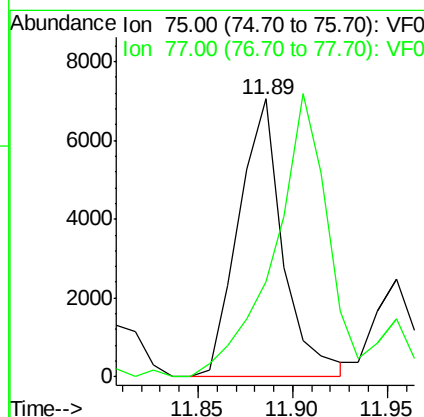
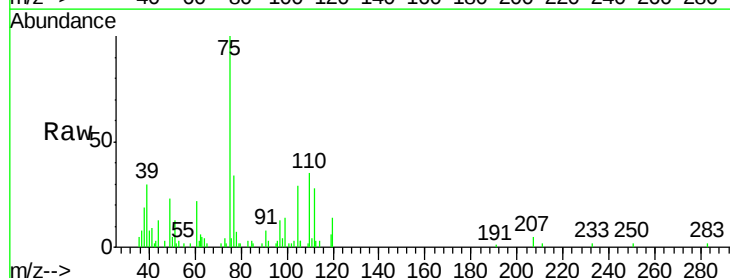
RT: 11.89 min Scan# 1152

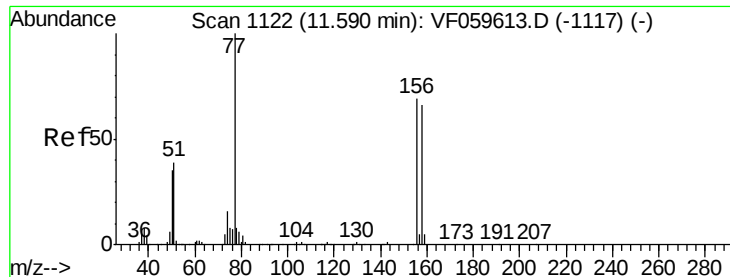
Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion	75	Resp	11490
Ion Ratio	Lower	Upper	
75	100		
77	34.4	20.9	62.8





#77

Bromobenzene

Concen: 5.01 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

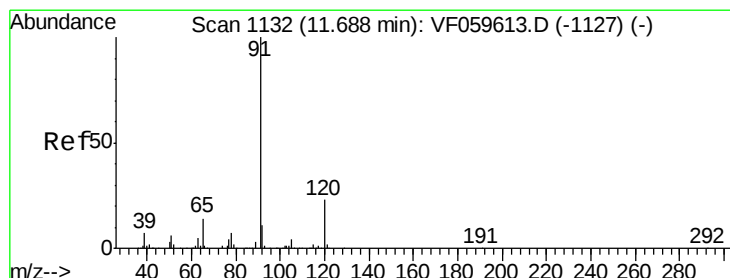
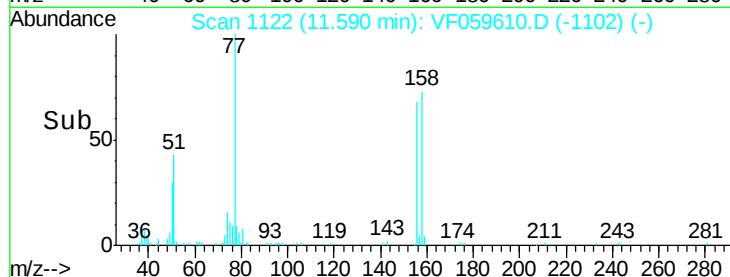
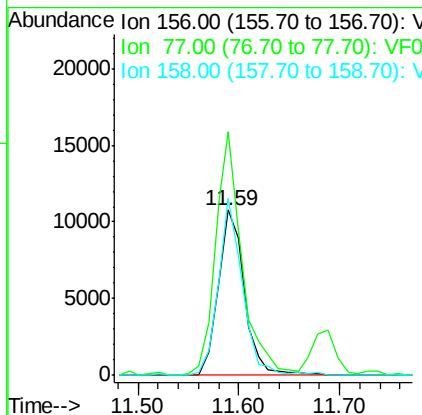
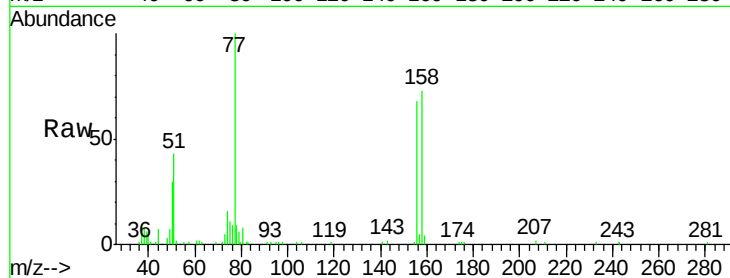
ClientSampleId :

VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		19501		
77	147.2	72.1	216.3		
158	107.3	47.3	141.9		

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#78

n-propylbenzene

Concen: 5.44 ug/l

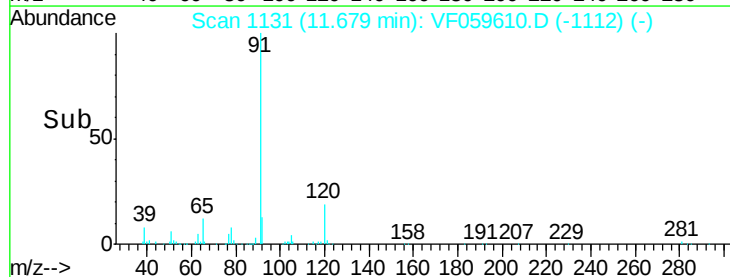
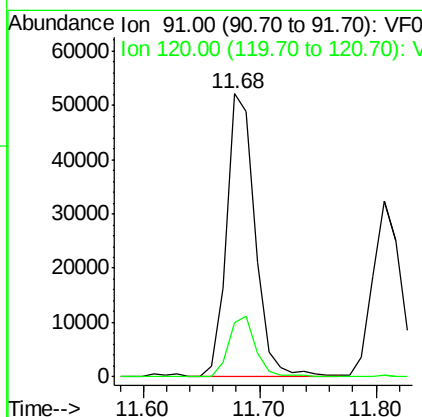
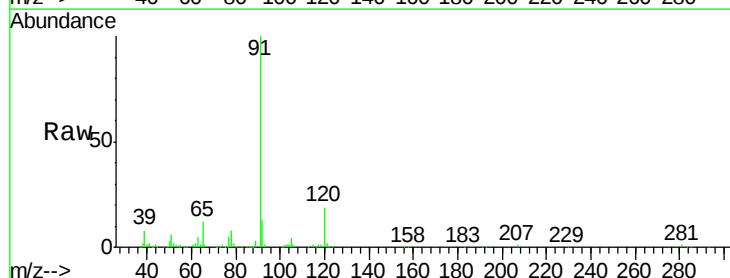
RT: 11.68 min Scan# 1131

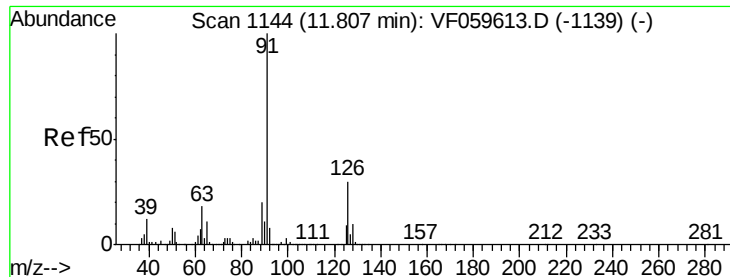
Delta R.T. -0.01 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		88355		
120	19.1	11.6	34.7		





#79

2-Chlorotoluene

Concen: 5.30 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 52783

Ion Ratio Lower Upper

91 100

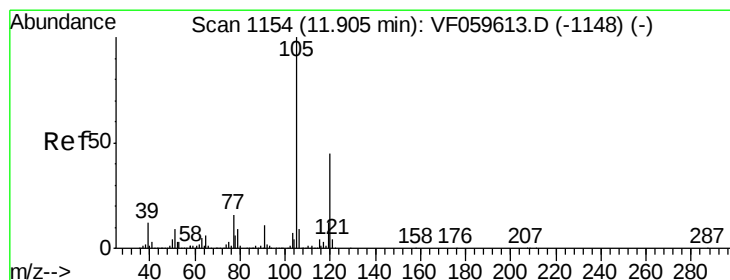
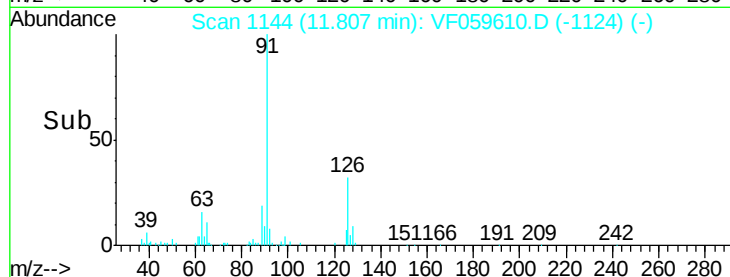
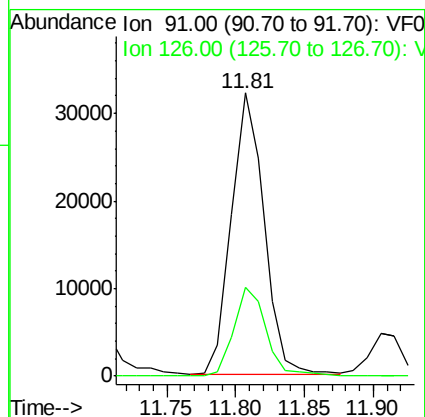
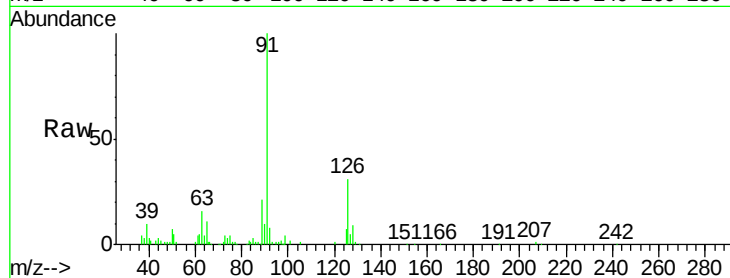
126 31.4 15.1 45.3

Manual Integrations

APPROVED

apatel

7/24/2018 1:13:21 PM



#80

1,3,5-Trimethylbenzene

Concen: 5.40 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VF059610.D

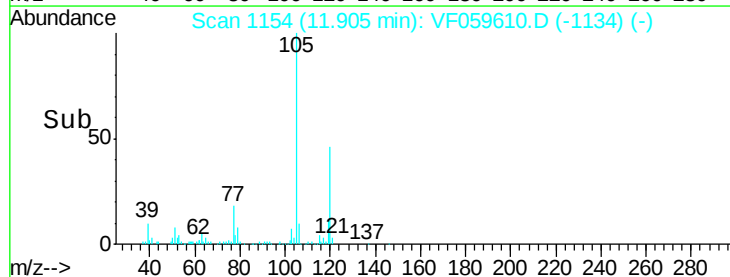
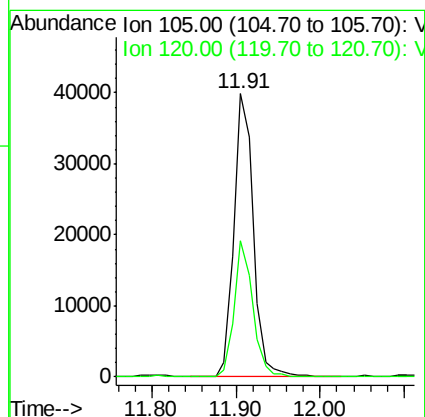
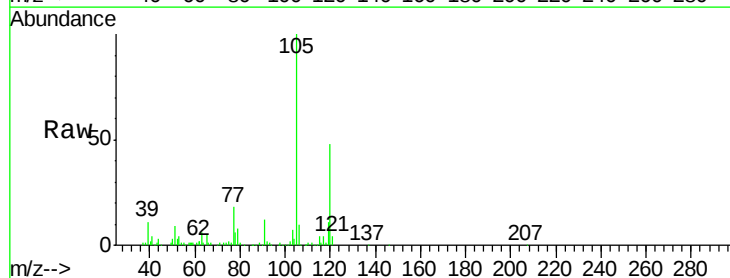
Acq: 23 Jul 2018 12:55

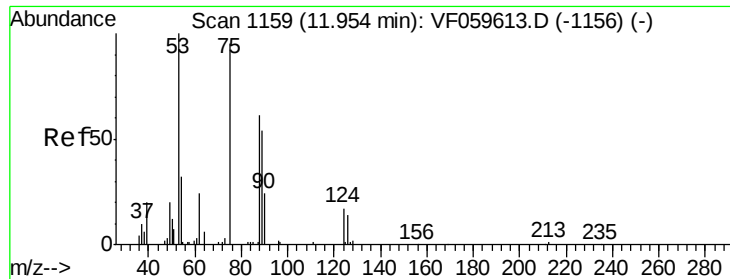
Tgt Ion: 105 Resp: 64104

Ion Ratio Lower Upper

105 100

120 48.1 22.4 67.0





#81

trans-1,4-Dichloro-2-butene

Concen: 3.52 ug/l m

RT: 11.95 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

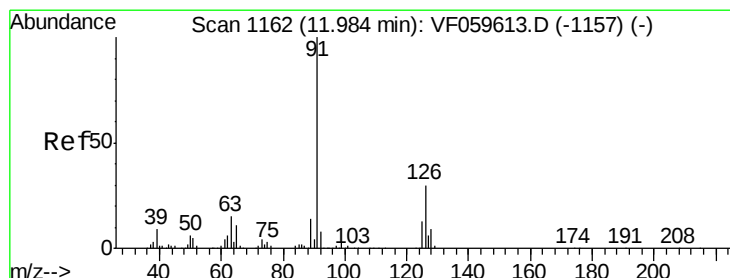
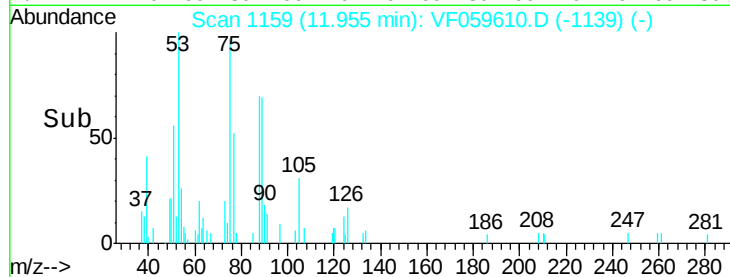
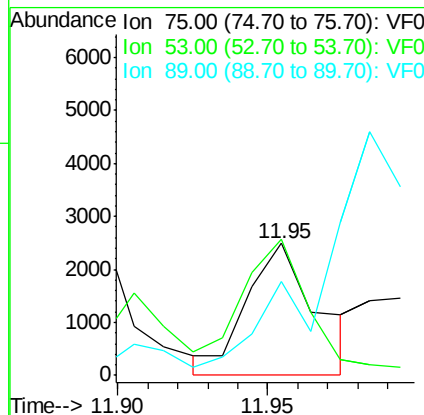
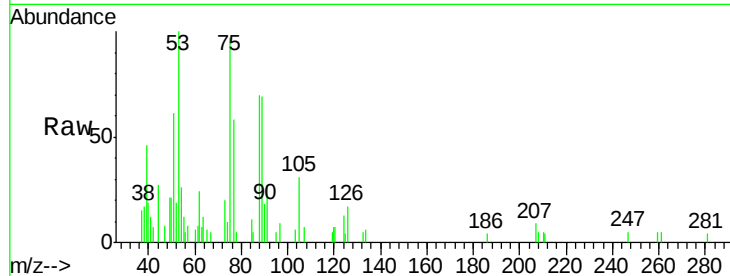
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	103.4	86.4	129.6
89	71.1	46.8	70.2#

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#82

4-Chlorotoluene

Concen: 5.36 ug/l

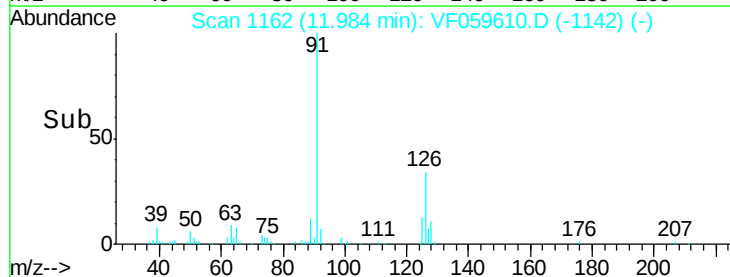
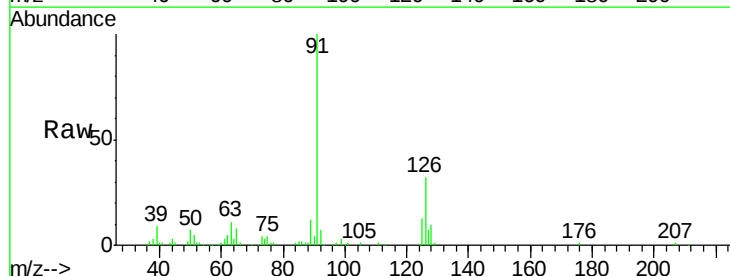
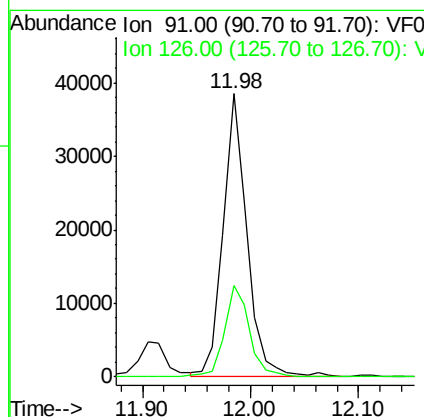
RT: 11.98 min Scan# 1162

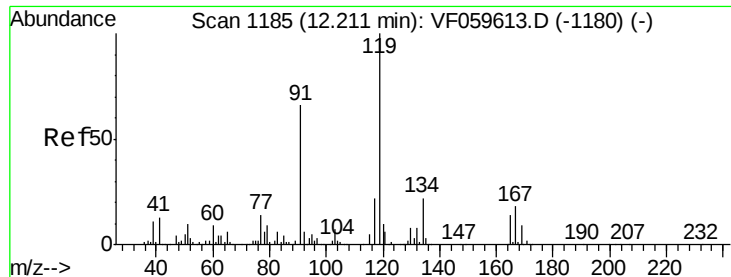
Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.1	14.7	44.1





#83

tert-Butylbenzene

Concen: 5.56 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Instrument :

MSVOA_F

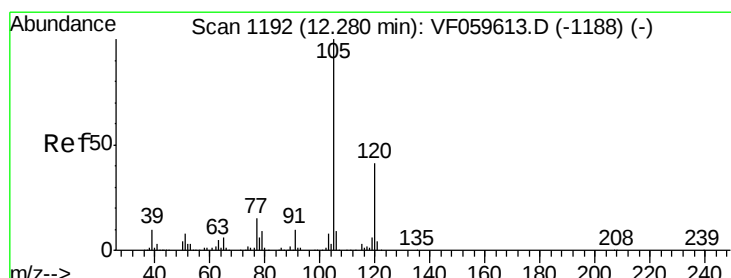
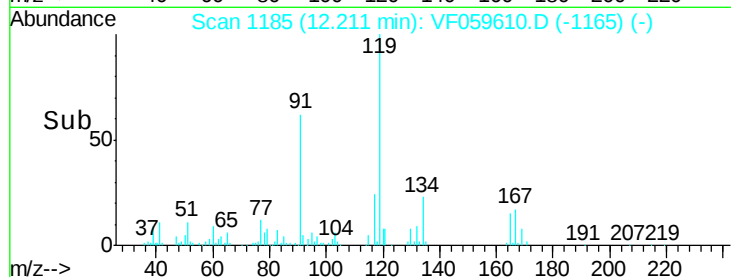
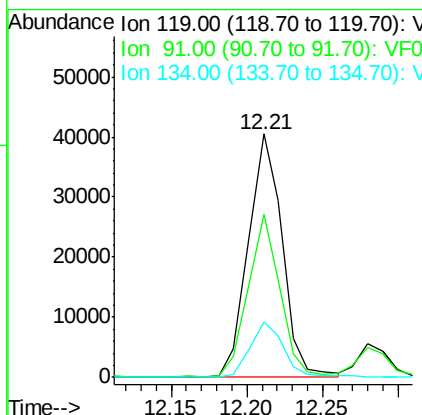
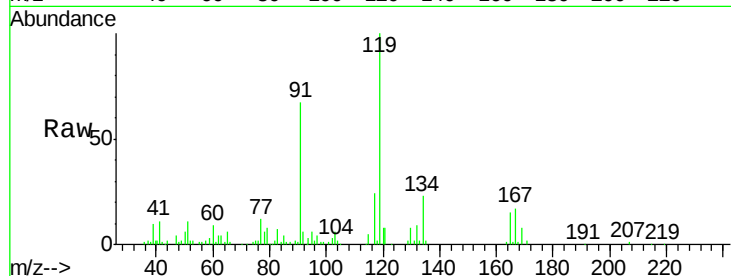
ClientSampleId :

VSTDIC005

Tot Ion:	119	Resp:	63534
Ion Ratio	Lower	Upper	
119	100		
91	67.1	33.2	99.6
134	22.8	10.9	32.6

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#84

1,2,4-Trimethylbenzene

Concen: 5.44 ug/l

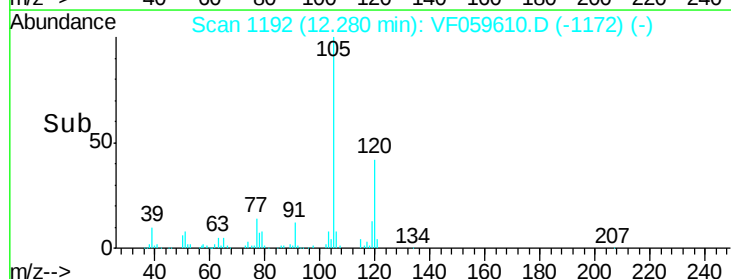
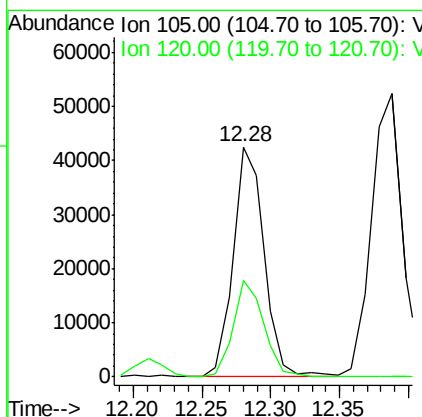
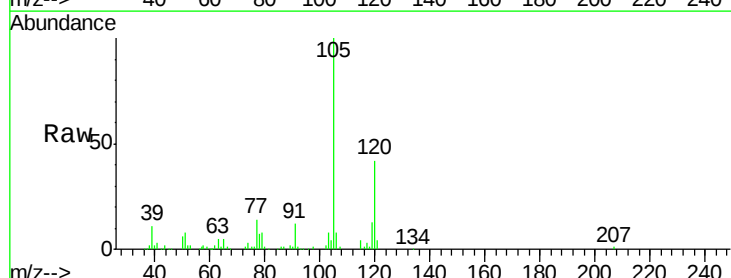
RT: 12.28 min Scan# 1192

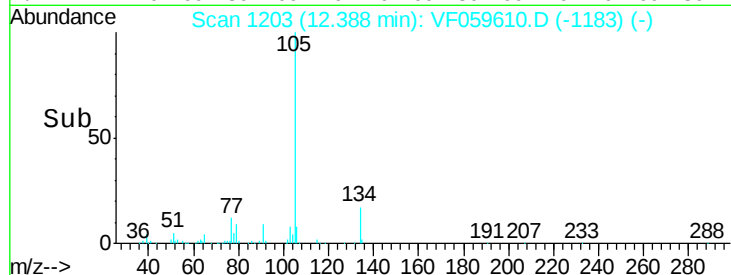
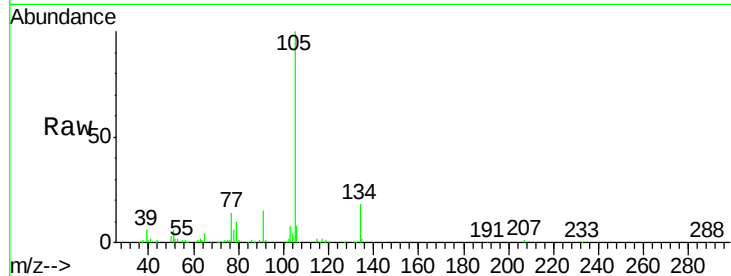
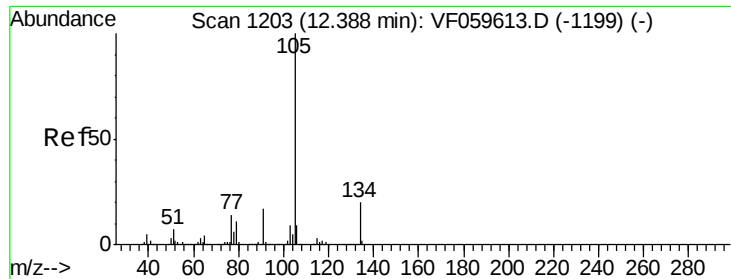
Delta R.T. 0.00 min

Lab File: VF059610.D

Acq: 23 Jul 2018 12:55

Tgt Ion:	105	Resp:	66647
Ion Ratio	Lower	Upper	
105	100		
120	41.9	20.4	61.3





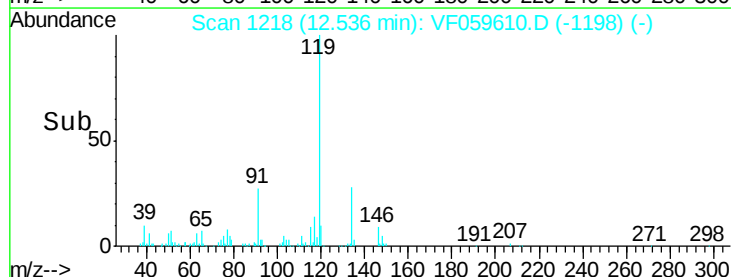
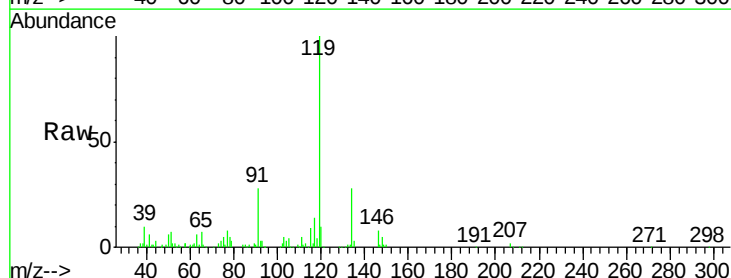
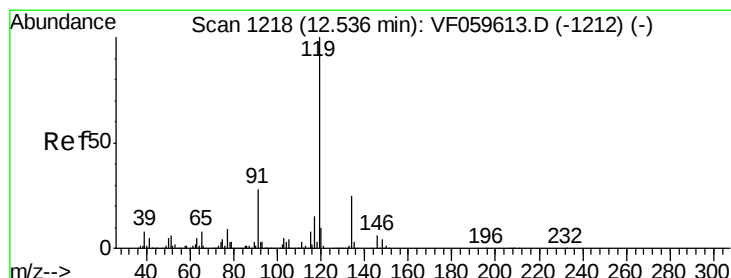
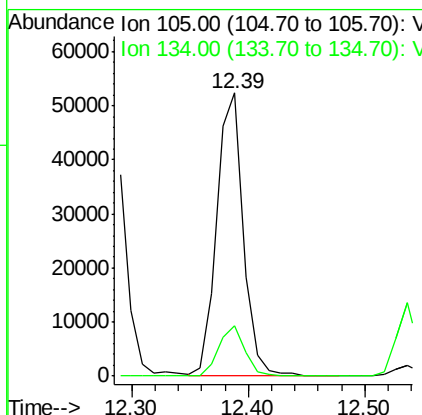
#85
 sec-Butylbenzene
 Concen: 5.68 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: VF059610.D
 Acq: 23 Jul 2018 12:55

Tot Ion	Ratio	Resp	Lower	Upper
105	100	82927		
134	17.8	9.9	29.7	

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

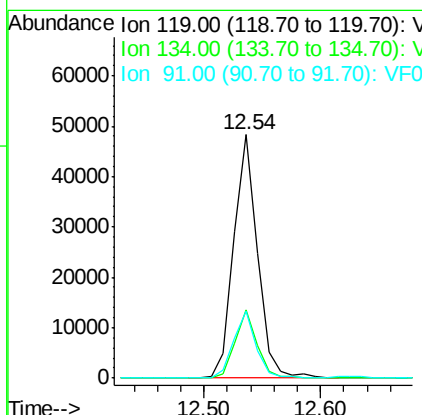
Manual Integrations
 APPROVED

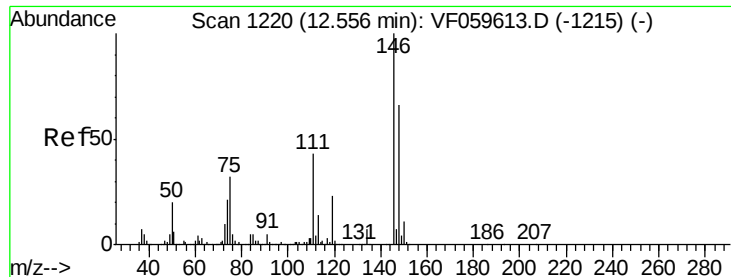
apatel
 7/24/2018 1:13:21 PM



#86
 p-Isopropyltoluene
 Concen: 5.33 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF059610.D
 Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	68173		
134	27.9	12.4	37.2	
91	27.5	13.9	41.7	





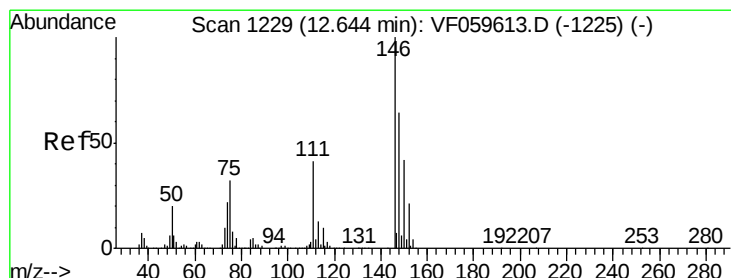
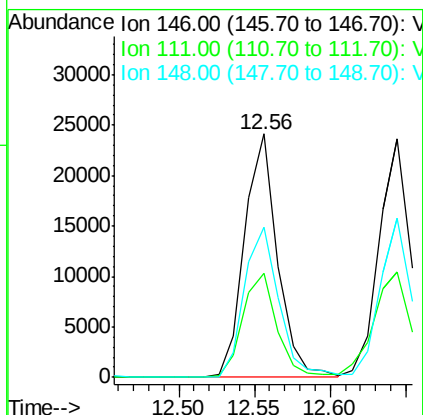
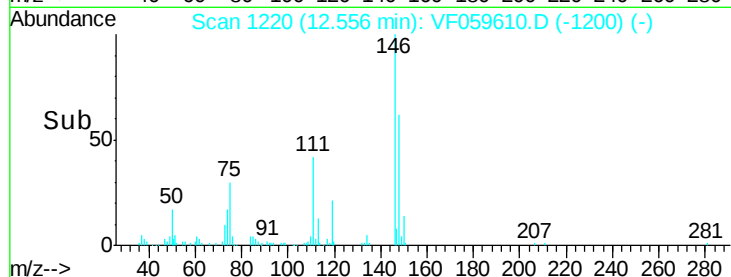
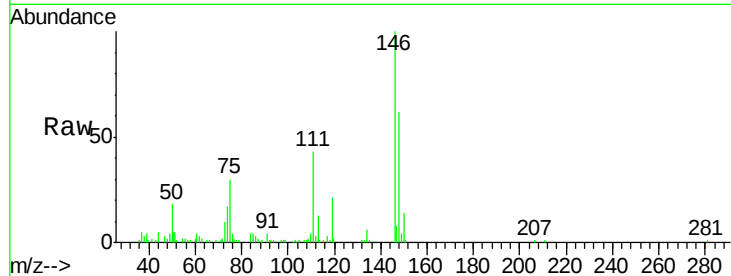
#87
 1,3-Dichlorobenzene
 Concen: 5.42 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF059610.D
 Acq: 23 Jul 2018 12:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	64.8
148	61.7	33.1	99.3

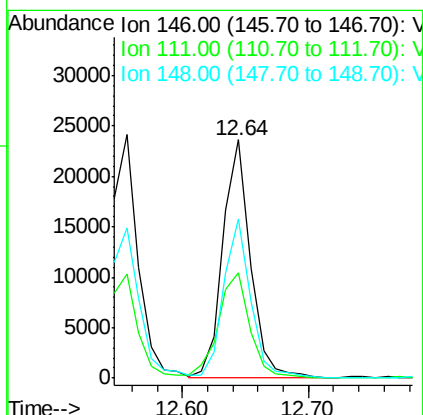
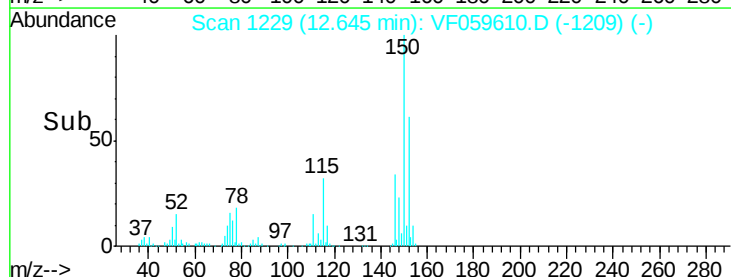
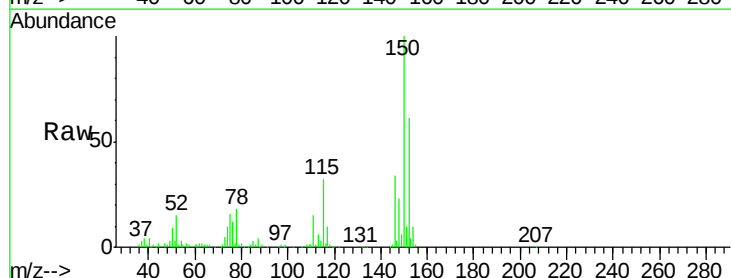
Manual Integrations
 APPROVED

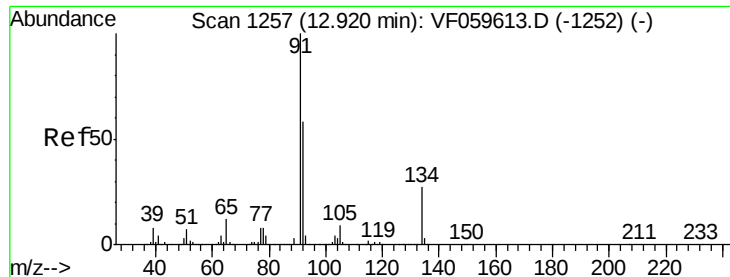
apatel
 7/24/2018 1:13:21 PM



#88
 1,4-Dichlorobenzene
 Concen: 5.35 ug/l
 RT: 12.64 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VF059610.D
 Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.0	20.5	61.5
148	67.0	32.3	96.8





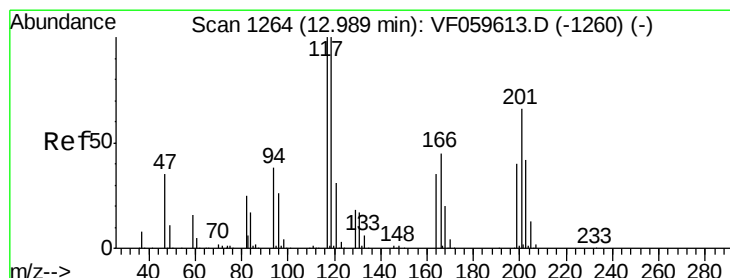
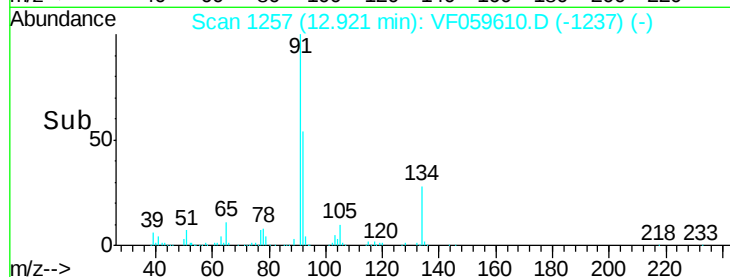
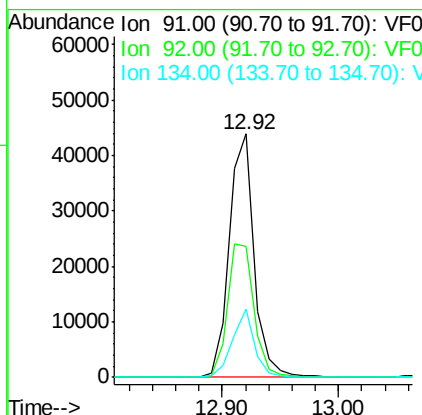
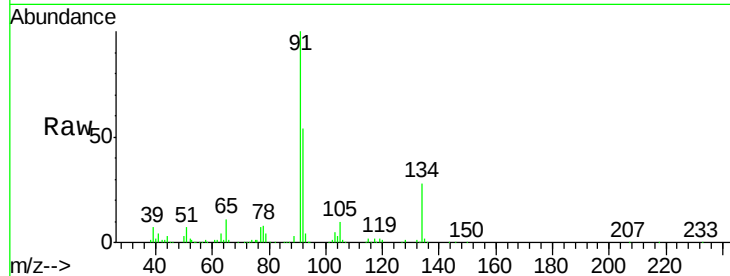
#89
n-Butylbenzene
Concen: 5.41 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.8	28.8	86.4
134	28.2	13.5	40.4

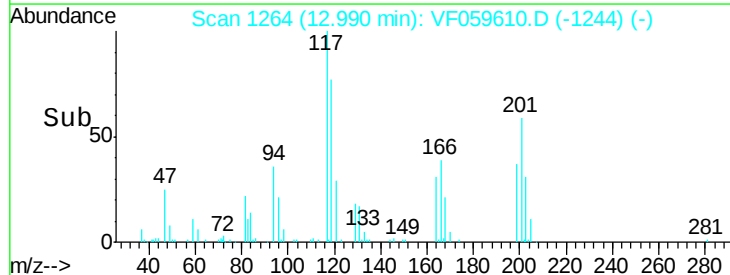
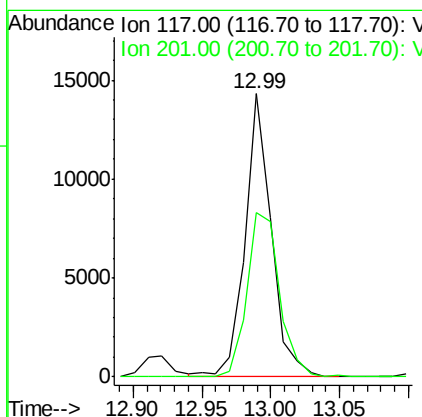
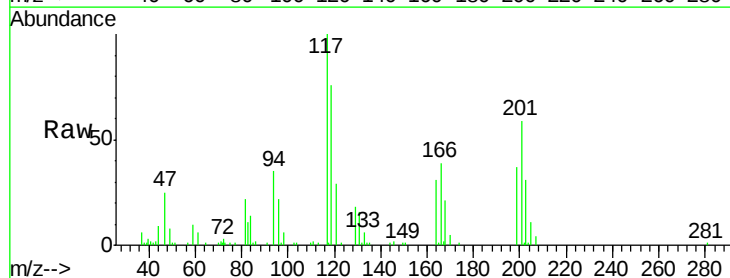
Manual Integrations
APPROVED

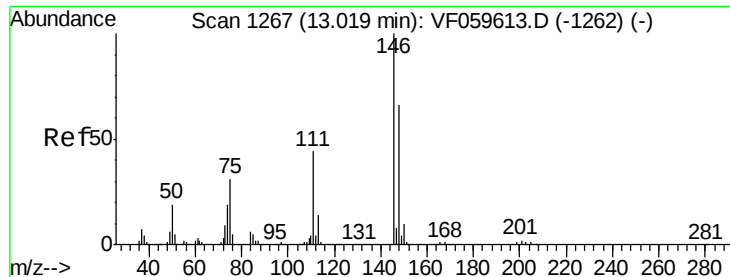
apatel
7/24/2018 1:13:21 PM



#90
Hexachloroethane
Concen: 6.44 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
117	100		
201	58.0	33.6	100.6





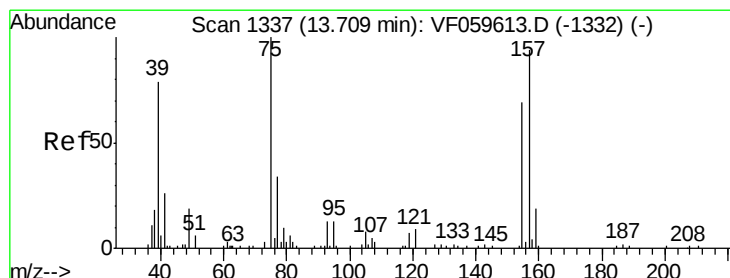
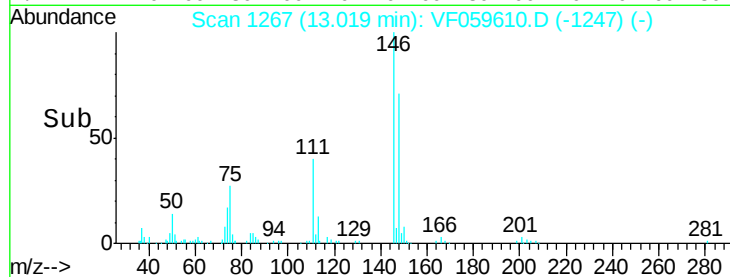
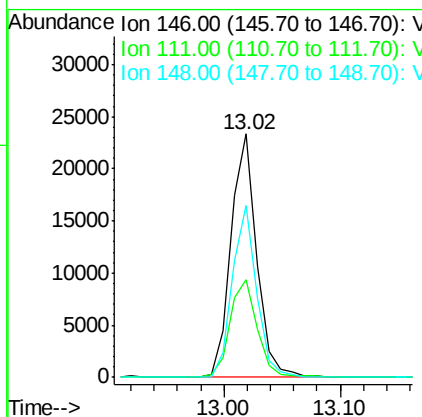
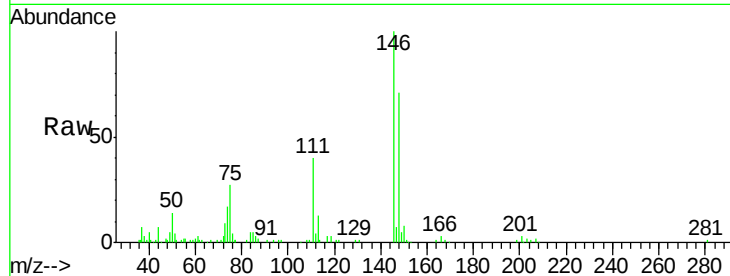
#91
 1,2-Dichlorobenzene
 Concen: 5.54 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VF059610.D
 Acq: 23 Jul 2018 12:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.8	65.3
148	70.8	32.9	98.7

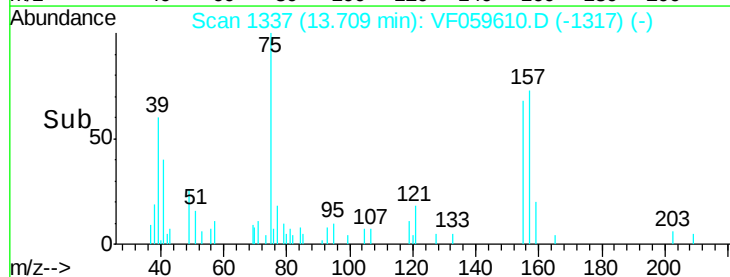
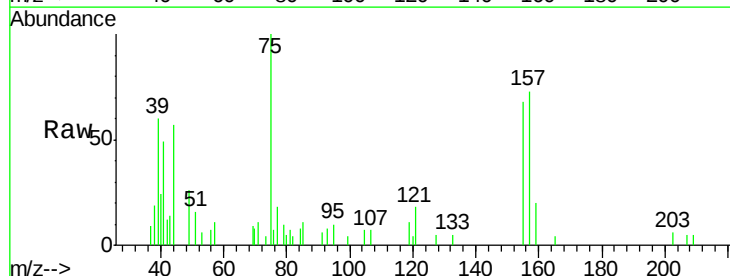
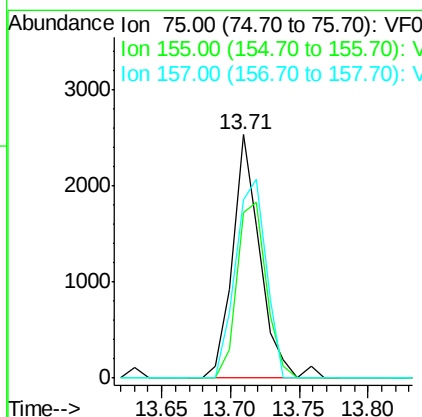
Manual Integrations
 APPROVED

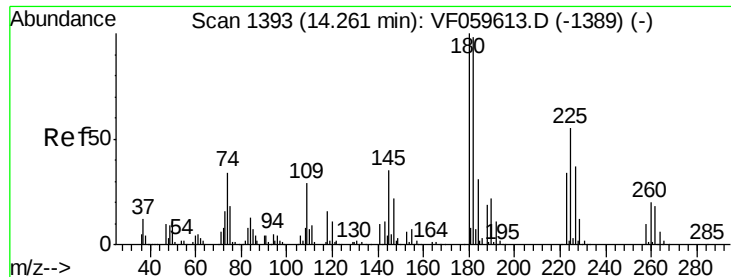
apatel
 7/24/2018 1:13:21 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.21 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF059610.D
 Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	67.9	34.6	103.8
157	73.2	47.0	141.0





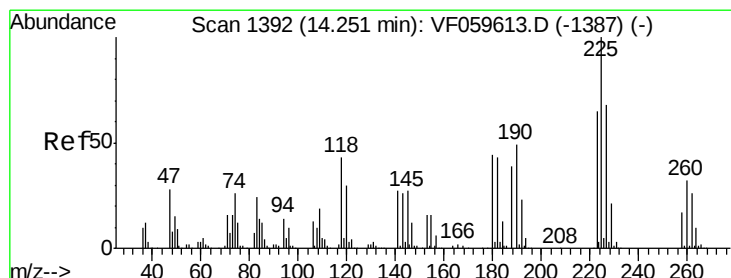
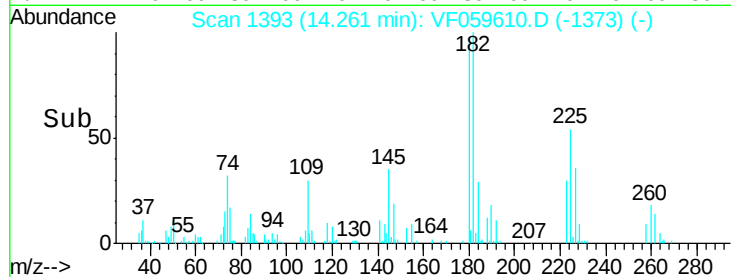
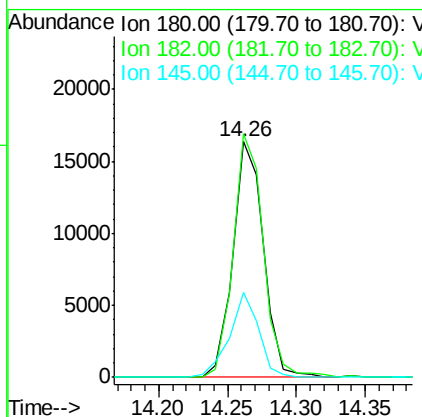
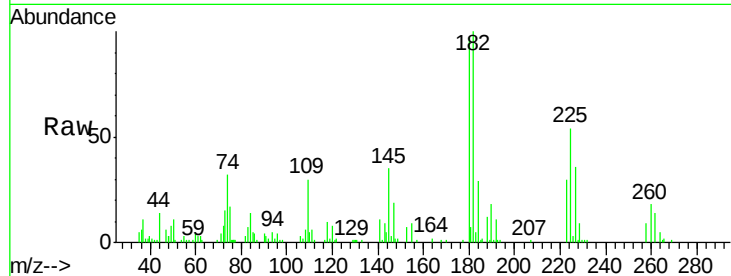
#93
1,2,4-Trichlorobenzene
Concen: 6.20 ug/l
RT: 14.26 min Scan# 1393
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	103.3	48.8	146.3
145	35.8	17.5	52.6

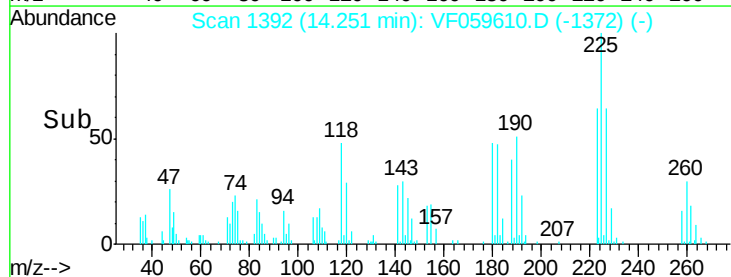
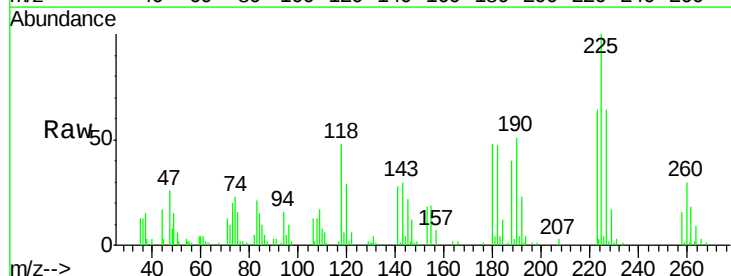
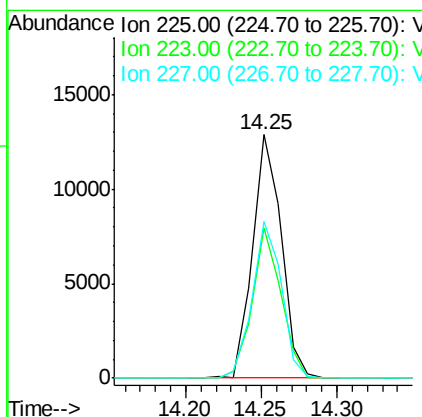
Manual Integrations
APPROVED

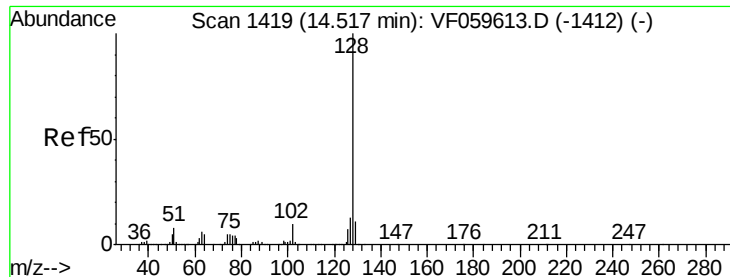
apatel
7/24/2018 1:13:21 PM



#94
Hexachlorobutadiene
Concen: 7.60 ug/l
RT: 14.25 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.7	32.6	98.0
227	64.5	33.9	101.6





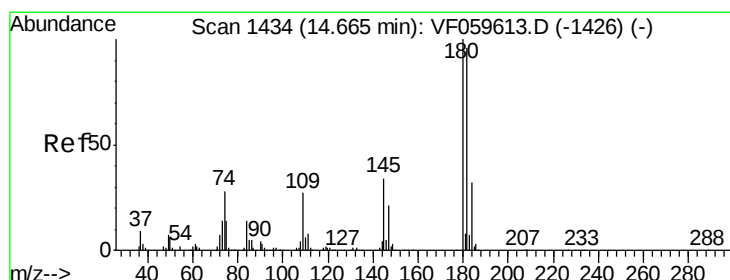
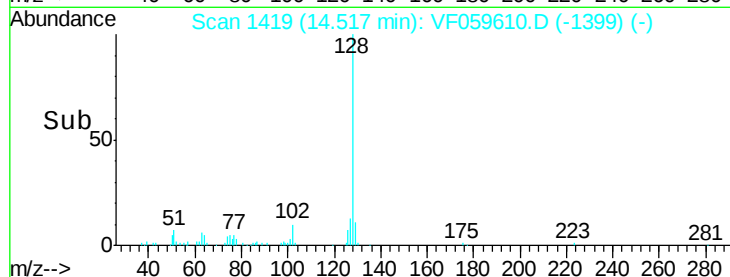
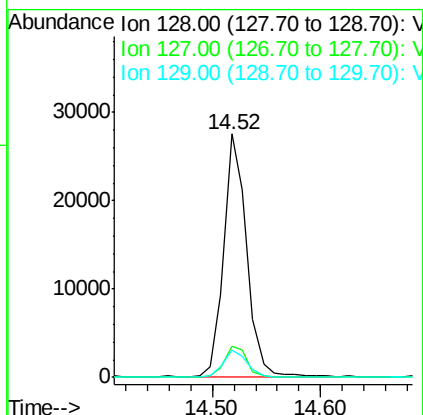
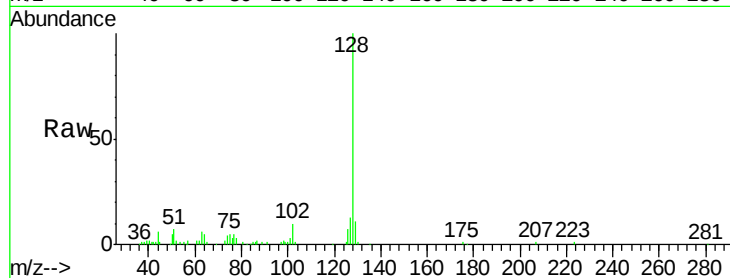
#95
Naphthalene
Concen: 5.00 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	9.1	13.7

Manual Integrations
APPROVED

apatel
7/24/2018 1:13:21 PM



#96
1,2,3-Trichlorobenzene
Concen: 5.83 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF059610.D
Acq: 23 Jul 2018 12:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.1	48.0	144.2
145	36.4	17.1	51.2

