

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070718\
 Data File : VF059471.D
 Acq On : 7 Jul 2018 2:32
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 7/9/2018 9:34:12 AM

Quant Time: Jul 07 06:21:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F070718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 07 05:43:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.00	168	239869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.73	114	334598	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	362527	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	238362	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.98	65	39719	11.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	23.90%	
35) Dibromofluoromethane	4.25	113	32375	12.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	25.10%	
50) Toluene-d8	7.67	98	73053	11.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	23.04%	
62) 4-Bromofluorobenzene	11.49	95	43253	12.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	24.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	29657	12.28	ug/l	95
3) Chloromethane	1.08	50	15152	10.00	ug/l	95
4) Vinyl Chloride	1.14	62	15322	10.25	ug/l	92
5) Bromomethane	1.32	94	12540	12.28	ug/l	86
6) Chloroethane	1.41	64	8205	10.83	ug/l #	77
7) Trichlorofluoromethane	1.47	101	33365m	10.86	ug/l	
8) Diethyl Ether	1.69	74	7799	10.36	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.89	101	20082	11.46	ug/l	90
10) Methyl Iodide	1.94	142	33025	10.41	ug/l #	84
11) Tert butyl alcohol	2.67	59	10612	51.42	ug/l	97
12) 1,1-Dichloroethene	1.84	96	18202	12.23	ug/l	85
13) Acrolein	2.07	56	8042	65.62	ug/l	87
14) Allyl chloride	2.16	41	31346	11.56	ug/l #	91
15) Acrylonitrile	3.05	53	16431	45.55	ug/l #	91
16) Acetone	2.32	43	34080	41.68	ug/l	100
17) Carbon Disulfide	1.86	76	45817	12.91	ug/l #	84
18) Methyl Acetate	2.43	43	15516m	9.59	ug/l	
19) Methyl tert-butyl Ether	2.52	73	58305	10.78	ug/l #	89
20) Methylene Chloride	2.26	84	20887m	8.88	ug/l	
21) trans-1,2-Dichloroethene	2.39	96	19286	12.21	ug/l	94
22) Diisopropyl ether	2.90	45	60552	10.18	ug/l	92
23) Vinyl Acetate	3.30	43	189964	50.58	ug/l	97
24) 1,1-Dichloroethane	2.97	63	42068	11.17	ug/l	98
25) 2-Butanone	4.48	43	41222	41.84	ug/l	95
26) 2,2-Dichloropropane	3.72	77	24781	9.83	ug/l	95
27) cis-1,2-Dichloroethene	3.60	96	22392	9.67	ug/l	93
28) Bromochloromethane	3.85	49	19148	11.73	ug/l	92
29) Tetrahydrofuran	4.22	42	19393	44.63	ug/l	99
30) Chloroform	3.99	83	60173	11.04	ug/l	96
31) Cyclohexane	3.83	56	23660	9.72	ug/l	97
32) 1,1,1-Trichloroethane	4.23	97	45671	11.38	ug/l	93
36) 1,1-Dichloropropene	4.42	75	33584	11.00	ug/l	97
37) Ethyl Acetate	4.25	43	20827	10.07	ug/l	93
38) Carbon Tetrachloride	4.13	117	51280	13.05	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070718\
 Data File : VF059471.D
 Acq On : 7 Jul 2018 2:32
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.03q/5mL/MSVOA-F/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 7/9/2018 9:34:12 AM

Quant Time: Jul 07 06:21:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F070718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 07 05:43:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.58	83	29635	10.94	ug/l	98
40) Benzene	4.77	78	68242	10.38	ug/l	95
41) Methacrylonitrile	4.88	41	10665	10.68	ug/l #	91
42) 1,2-Dichloroethane	5.08	62	49469	12.36	ug/l	99
43) Isopropyl Acetate	7.08	43	23484	9.68	ug/l #	100
44) Trichloroethene	5.64	130	26557	11.53	ug/l	94
45) 1,2-Dichloropropane	6.36	63	19341	10.34	ug/l #	89
46) Dibromomethane	6.22	93	17415	10.56	ug/l	94
47) Bromodichloromethane	6.51	83	47273	11.78	ug/l	89
48) Methyl methacrylate	6.84	41	14709	8.91	ug/l #	88
49) 1,4-Dioxane	6.83	88	1219	122.48	ug/l #	71
51) 4-Methyl-2-Pentanone	8.37	43	99494	55.03	ug/l	97
52) Toluene	7.74	92	53323	10.77	ug/l	95
53) t-1,3-Dichloropropene	8.39	75	42540	11.71	ug/l	99
54) cis-1,3-Dichloropropene	7.43	75	37604	9.66	ug/l	97
55) 1,1,2-Trichloroethane	8.61	97	20251	10.60	ug/l	91
56) Ethyl methacrylate	8.74	69	22101	9.50	ug/l #	78
57) 1,3-Dichloropropane	8.96	76	34299	10.46	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.74	63	11399	62.13	ug/l	100
59) 2-Hexanone	9.60	43	67359	45.18	ug/l	100
60) Dibromochloromethane	8.82	129	33507	11.25	ug/l	88
61) 1,2-Dibromoethane	9.10	107	25945	11.16	ug/l	88
64) Tetrachloroethene	8.27	164	28265	11.36	ug/l	94
65) Chlorobenzene	9.91	112	68669	10.00	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.04	131	33264	11.12	ug/l	94
67) Ethyl Benzene	10.01	91	121167	10.36	ug/l	99
68) m/p-Xylenes	10.23	106	85641	20.73	ug/l	93
69) o-Xylene	10.81	106	44119	9.57	ug/l	91
70) Styrene	10.88	104	74029	10.52	ug/l	96
71) Bromoform	10.87	173	21521	10.55	ug/l	96
73) Isopropylbenzene	11.20	105	143778	10.13	ug/l	99
74) N-amyl acetate	11.45	43	40956	8.17	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.76	83	32805	9.39	ug/l	94
76) 1,2,3-Trichloropropane	11.86	75	28893	10.78	ug/l	94
77) Bromobenzene	11.57	156	41541	10.64	ug/l	85
78) n-propylbenzene	11.66	91	178938	10.51	ug/l	100
79) 2-Chlorotoluene	11.79	91	107988	10.34	ug/l	100
80) 1,3,5-Trimethylbenzene	11.89	105	126969	10.15	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.93	75	12397	7.97	ug/l	96
82) 4-Chlorotoluene	11.97	91	116236	10.50	ug/l	97
83) tert-Butylbenzene	12.20	119	127589	10.31	ug/l	94
84) 1,2,4-Trimethylbenzene	12.26	105	140290	10.74	ug/l	94
85) sec-Butylbenzene	12.36	105	168379	10.20	ug/l	99
86) p-Isopropyltoluene	12.52	119	147594	10.63	ug/l	99
87) 1,3-Dichlorobenzene	12.53	146	79163	10.90	ug/l	97
88) 1,4-Dichlorobenzene	12.63	146	74120	10.51	ug/l	95
89) n-Butylbenzene	12.90	91	150370	10.66	ug/l	95
90) Hexachloroethane	12.97	117	37340	10.76	ug/l	85
91) 1,2-Dichlorobenzene	13.00	146	79880	11.23	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.69	75	7651	9.66	ug/l	82

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF070718\
Data File : VF059471.D
Acq On : 7 Jul 2018 2:32
Operator : VA/AP
Sample : VSTDICC010
Misc : 5.03g/5mL/MSVOA-F/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC010

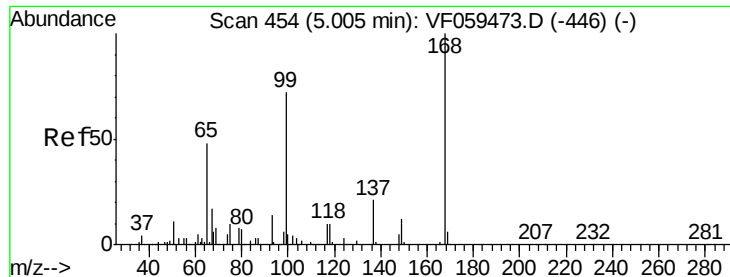
Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM

Quant Time: Jul 07 06:21:50 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F070718S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 07 05:43:52 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	57974	10.98	ug/l	96
94) Hexachlorobutadiene	14.24	225	32632	10.78	ug/l	92
95) Naphthalene	14.50	128	101360	9.16	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	59499	11.83	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:168 Resp: 239869

Ion Ratio Lower Upper

168 100

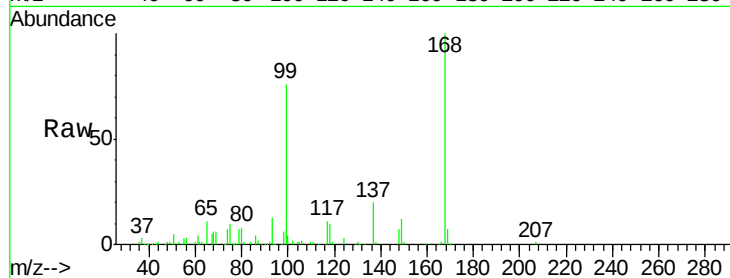
99 75.9 57.7 86.5

Manual Integrations

APPROVED

apatel

7/9/2018 9:34:12 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

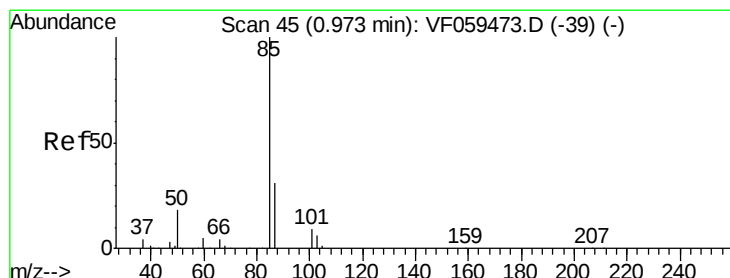
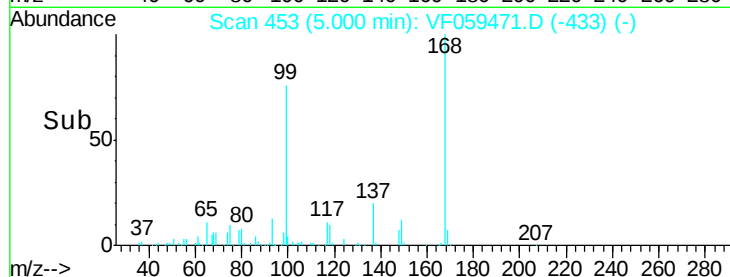
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 12.28 ug/l

RT: 0.98 min Scan# 45

Delta R.T. 0.01 min

Lab File: VF059471.D

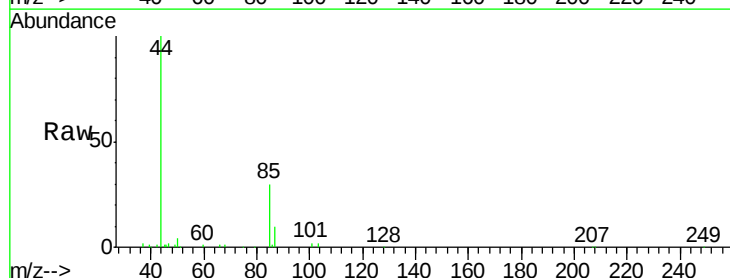
Acq: 7 Jul 2018 2:32

Tgt Ion: 85 Resp: 29657

Ion Ratio Lower Upper

85 100

87 33.9 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

10000

8000

6000

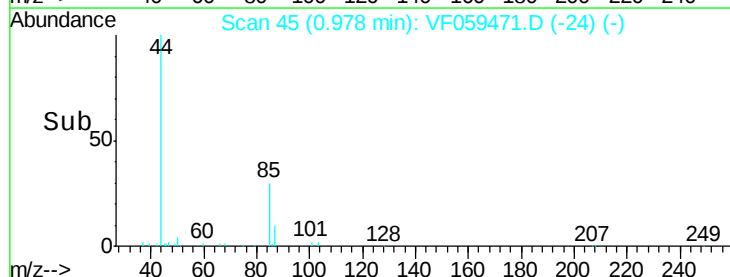
4000

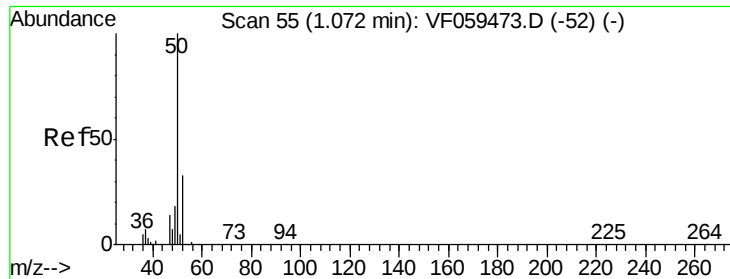
2000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 10.00 ug/l

RT: 1.08 min Scan# 55

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 50 Resp: 15152

Ion Ratio Lower Upper

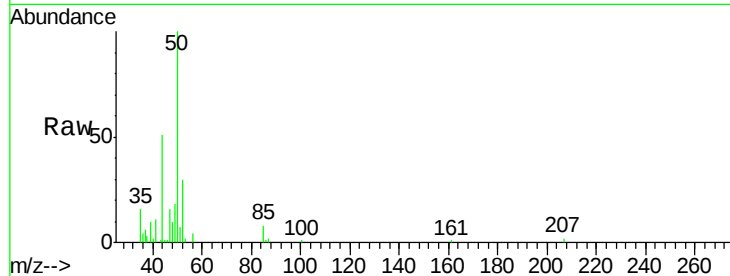
50 100

52 29.7 25.9 38.9

Manual Integrations
APPROVED

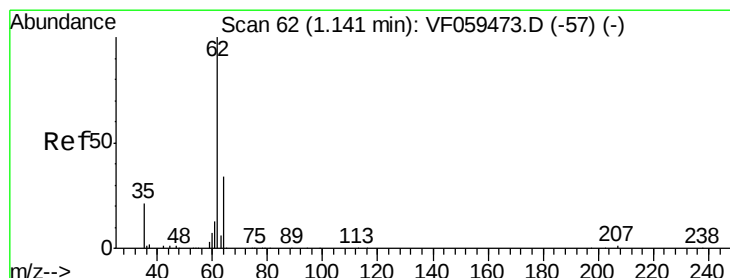
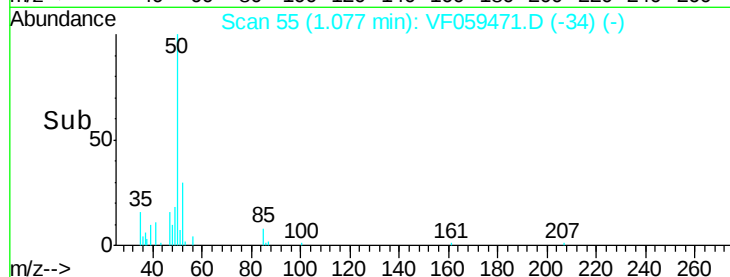
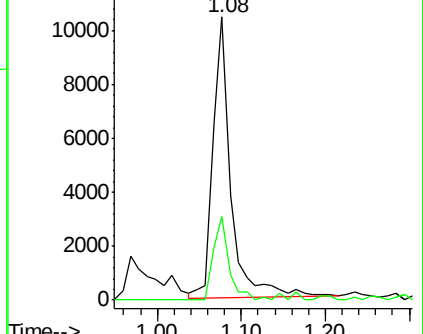
apatel

7/9/2018 9:34:12 AM



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 10.25 ug/l

RT: 1.14 min Scan# 61

Delta R.T. -0.00 min

Lab File: VF059471.D

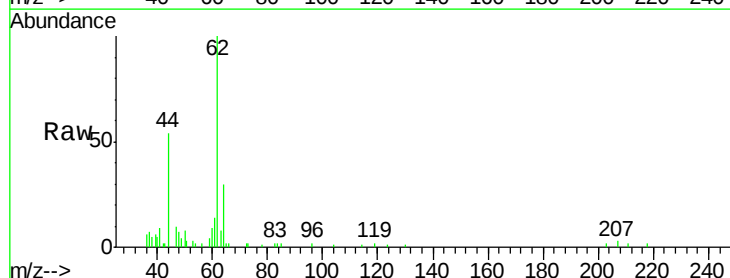
Acq: 7 Jul 2018 2:32

Tgt Ion: 62 Resp: 15322

Ion Ratio Lower Upper

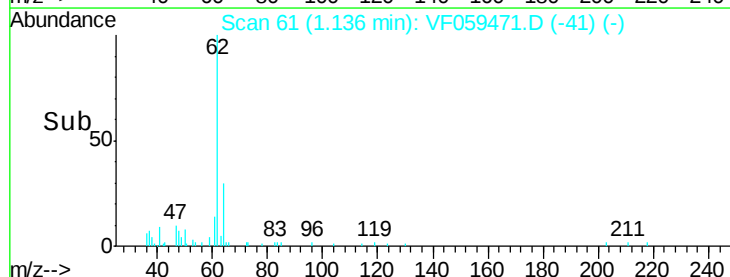
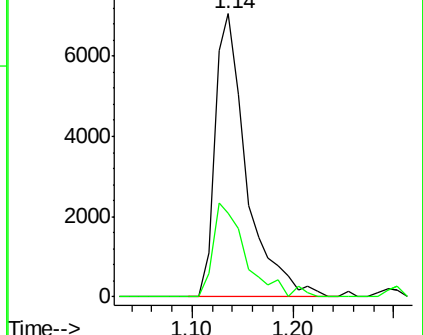
62 100

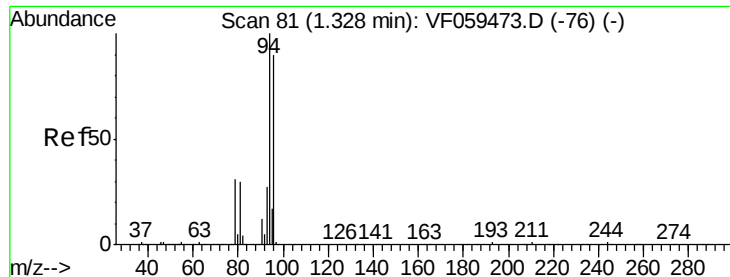
64 29.7 27.3 40.9



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 12.28 ug/l

RT: 1.32 min Scan# 80

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 94 Resp: 12540

Ion Ratio Lower Upper

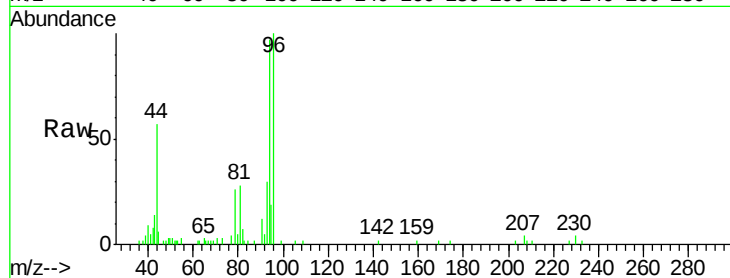
94 100

96 102.7 72.0 108.0

Manual Integrations
APPROVED

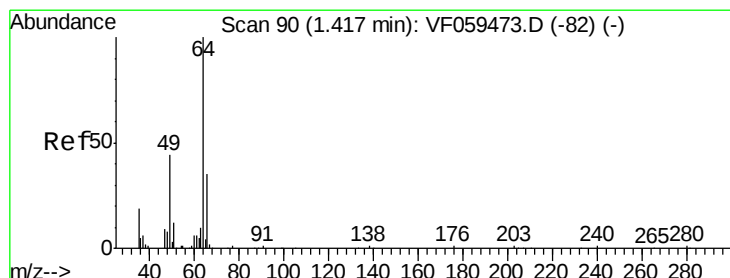
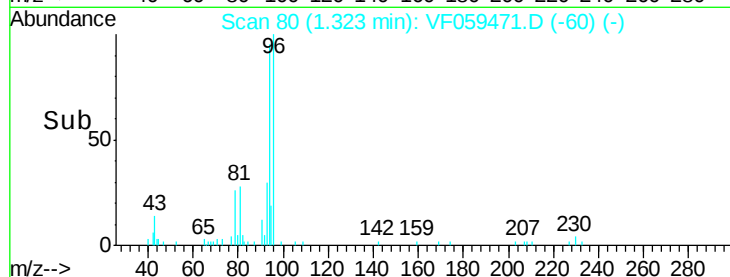
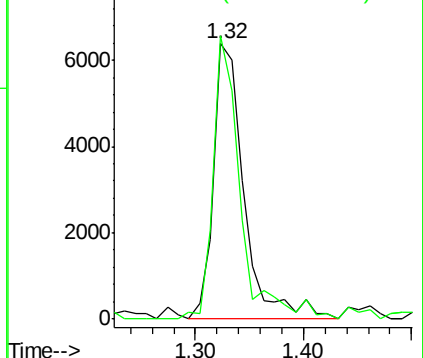
apatel

7/9/2018 9:34:12 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 10.83 ug/l

RT: 1.41 min Scan# 89

Delta R.T. -0.00 min

Lab File: VF059471.D

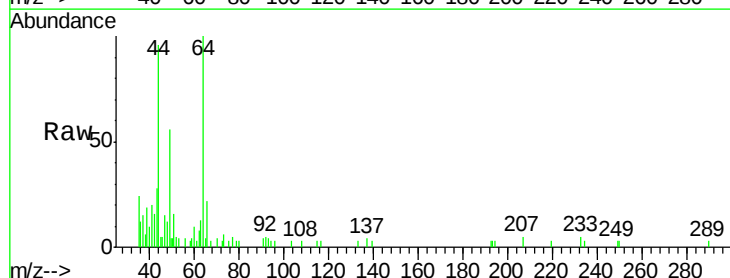
Acq: 7 Jul 2018 2:32

Tgt Ion: 64 Resp: 8205

Ion Ratio Lower Upper

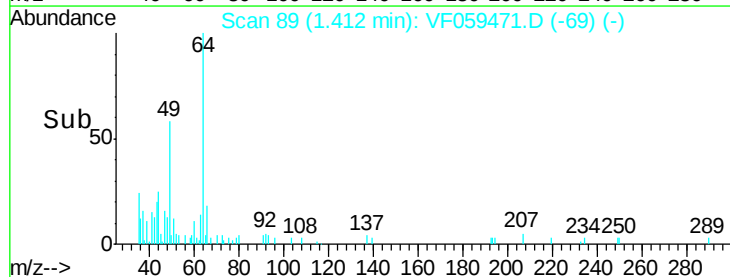
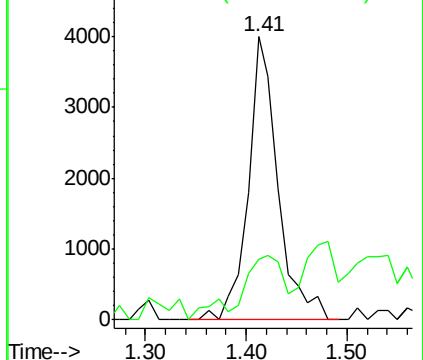
64 100

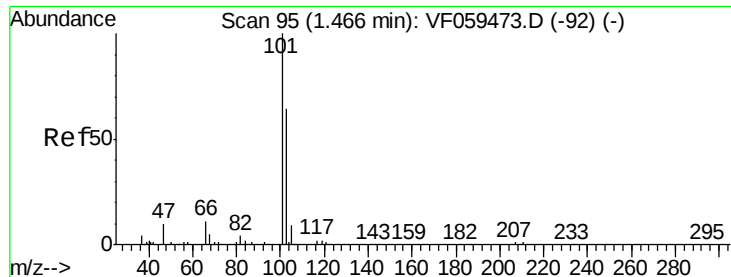
66 21.6 28.1 42.1#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 10.86 ug/l m

RT: 1.47 min Scan# 95

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:101 Resp: 33365

Ion Ratio Lower Upper

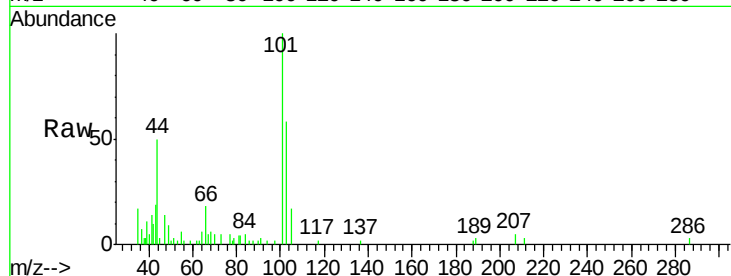
101 100

103 57.8 51.2 76.8

Manual Integrations
APPROVED

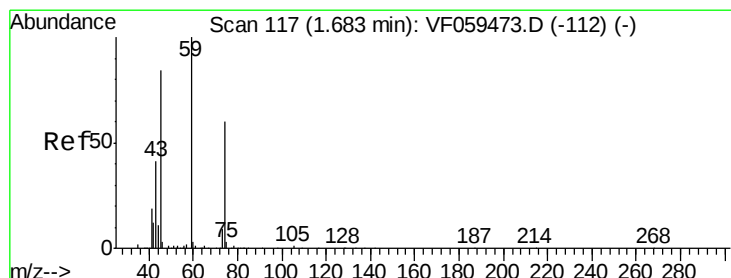
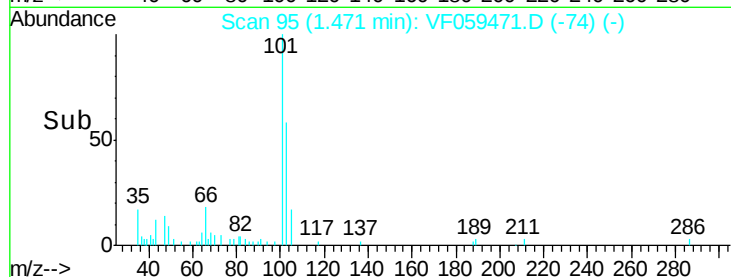
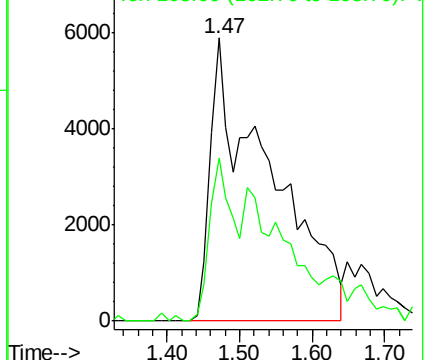
apatel

7/9/2018 9:34:12 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 10.36 ug/l

RT: 1.69 min Scan# 117

Delta R.T. 0.01 min

Lab File: VF059471.D

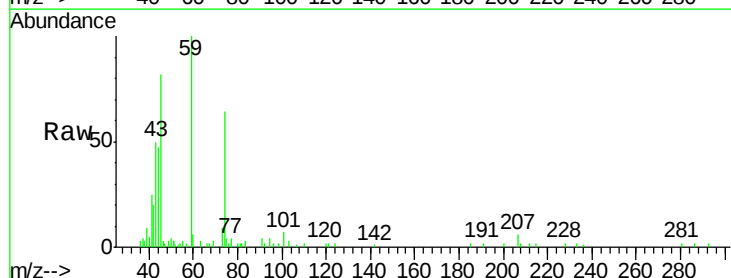
Acq: 7 Jul 2018 2:32

Tgt Ion: 74 Resp: 7799

Ion Ratio Lower Upper

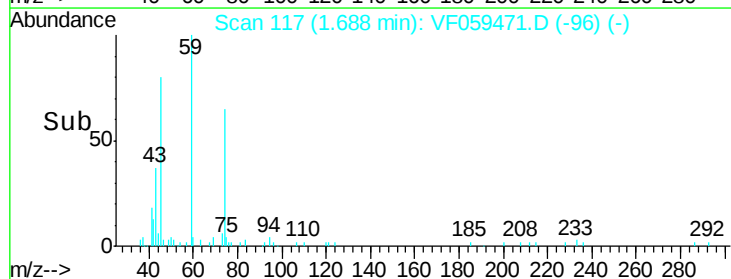
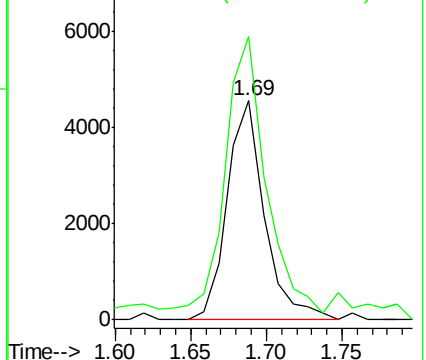
74 100

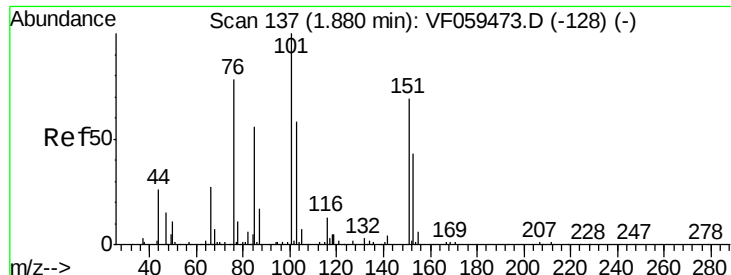
45 129.3 71.1 213.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.46 ug/l

RT: 1.89 min Scan# 137

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

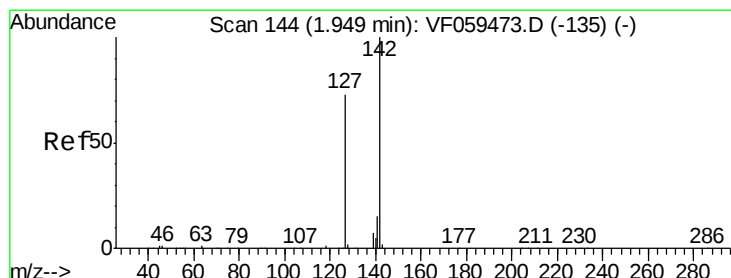
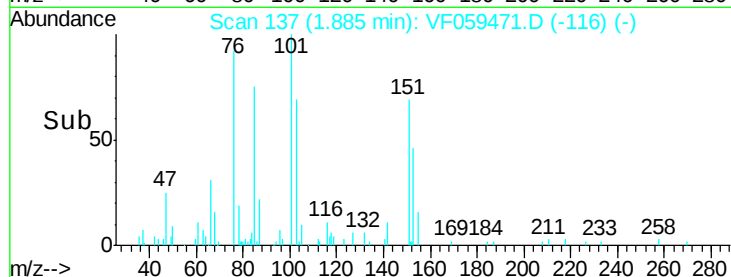
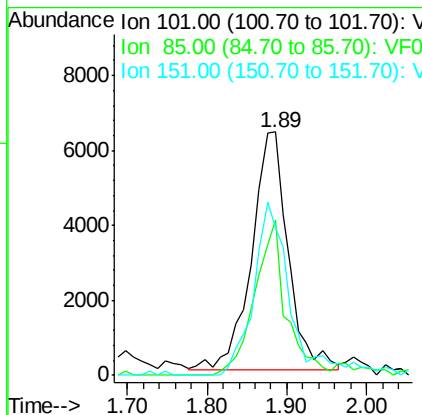
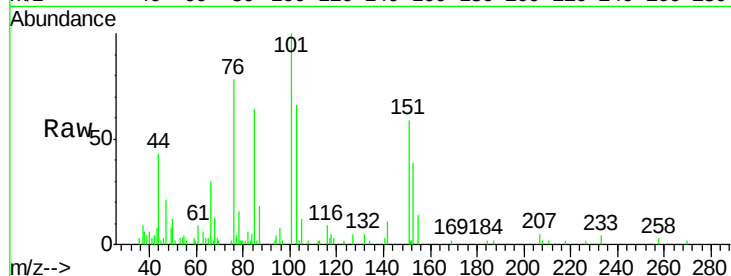
ClientSampleId :

VSTDIC010

Tot Ion:	101	Resp:	20082
Ion Ratio	Lower	Upper	
101	100		
85	63.6	43.8	65.8
151	60.6	54.2	81.4

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#10

Methyl Iodide

Concen: 10.41 ug/l

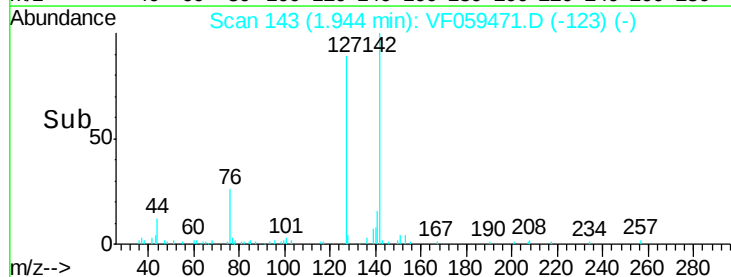
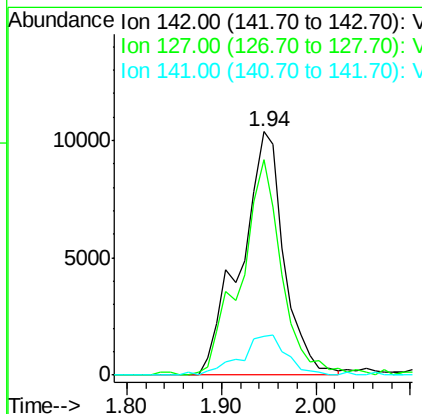
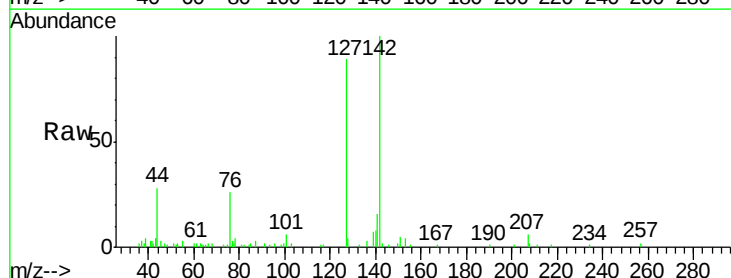
RT: 1.94 min Scan# 143

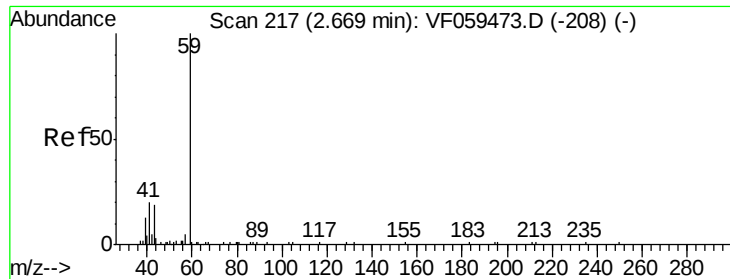
Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	142	Resp:	33025
Ion Ratio	Lower	Upper	
142	100		
127	88.5	58.2	87.2#
141	16.1	11.7	17.5





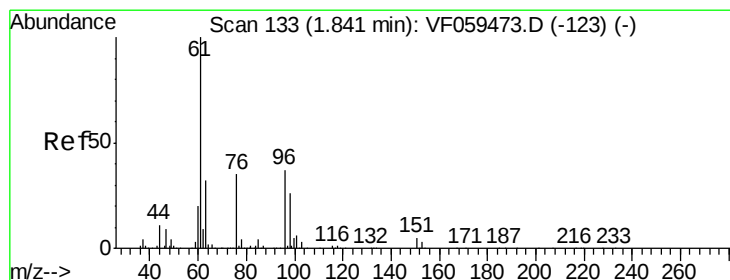
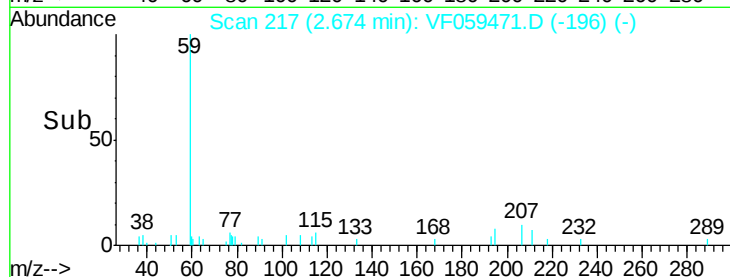
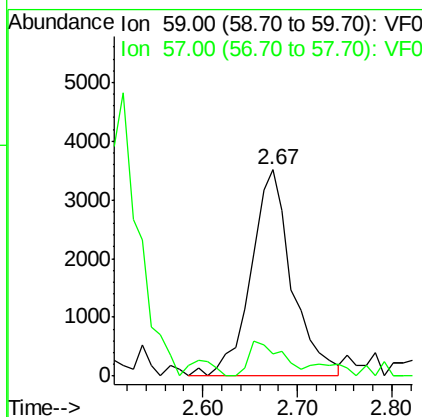
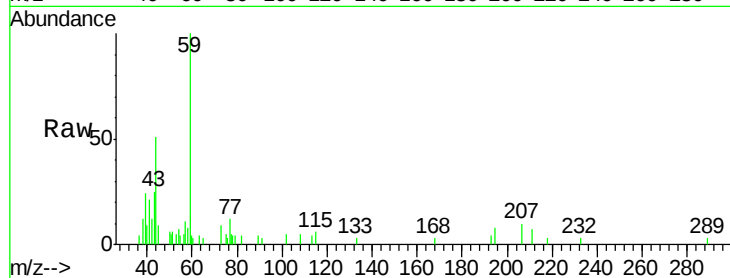
#11
Tert butyl alcohol
Concen: 51.42 ug/l
RT: 2.67 min Scan# 217
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8

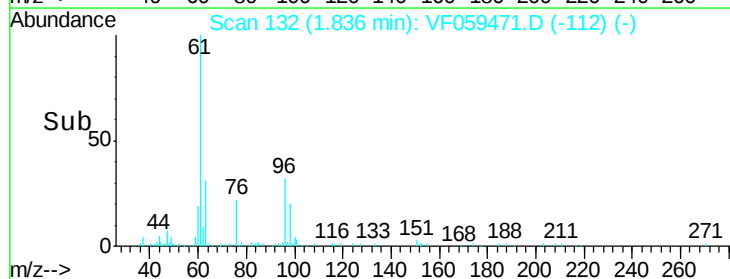
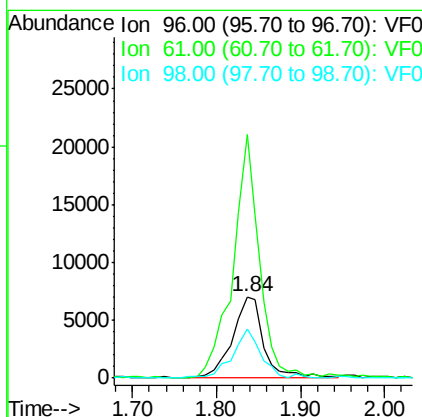
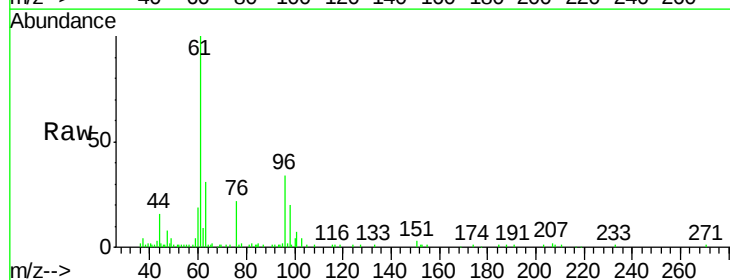
Manual Integrations
APPROVED

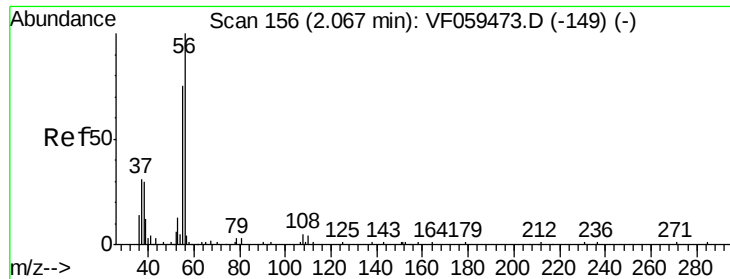
apatel
7/9/2018 9:34:12 AM



#12
1,1-Dichloroethene
Concen: 12.23 ug/l
RT: 1.84 min Scan# 132
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	298.2	214.4	321.6
98	62.5	55.6	83.4





#13

Acrolein

Concen: 65.62 ug/l

RT: 2.07 min Scan# 156

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tot Ion: 56 Resp: 8042

Ion Ratio Lower Upper

56 100

55 65.7 61.2 91.8

Instrument :

MSVOA_F

ClientSampleId :

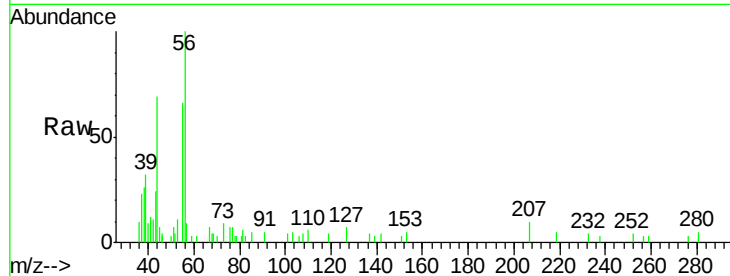
VSTDIC010

Manual Integrations

APPROVED

apatel

7/9/2018 9:34:12 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.07

4000

3000

2000

1000

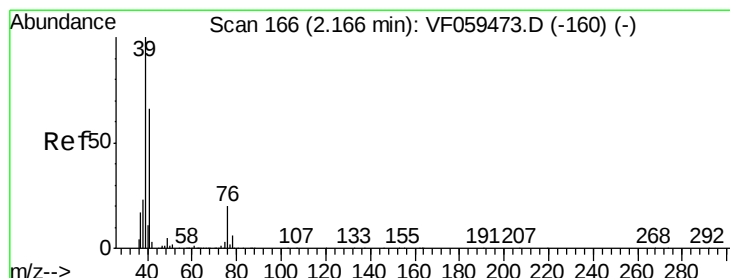
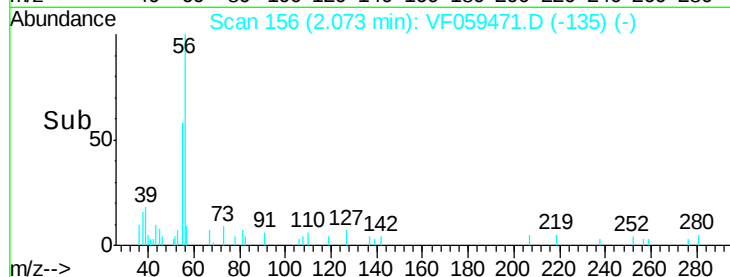
0

Time-->

2.00

2.10

2.20



#14

Allyl chloride

Concen: 11.56 ug/l

RT: 2.16 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

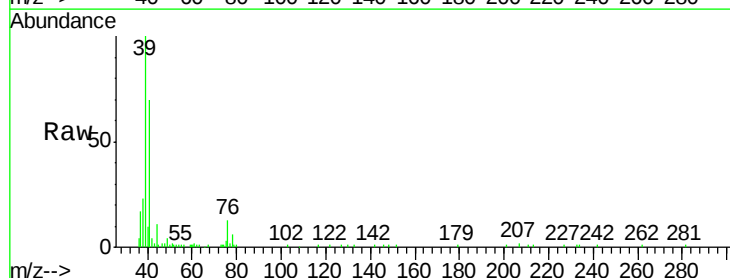
Tgt Ion: 41 Resp: 31346

Ion Ratio Lower Upper

41 100

39 142.6 120.7 181.1

76 18.8 24.0 36.0#



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

25000

20000

15000

10000

5000

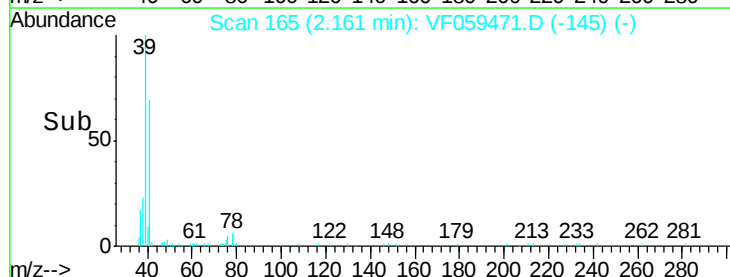
0

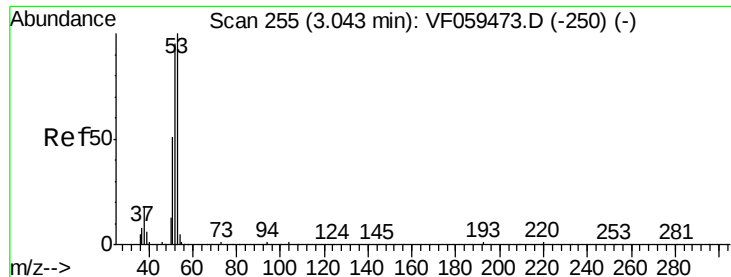
Time-->

2.10

2.20

2.30





#15

Acrylonitrile

Concen: 45.55 ug/l

RT: 3.05 min Scan# 255

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

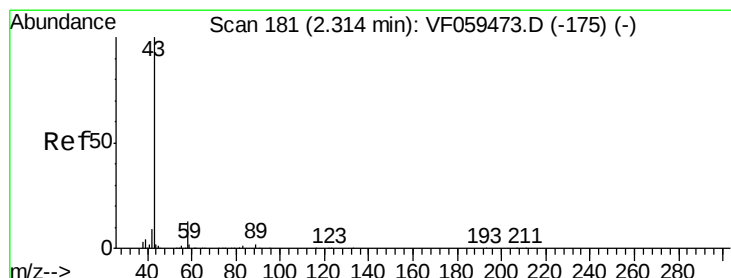
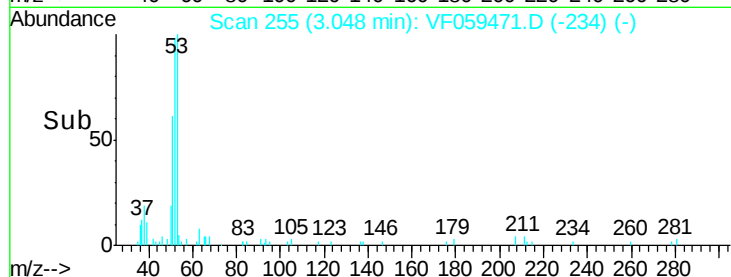
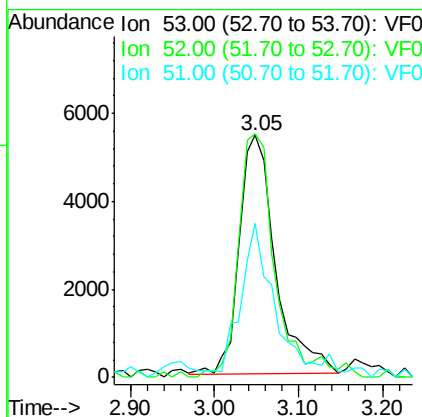
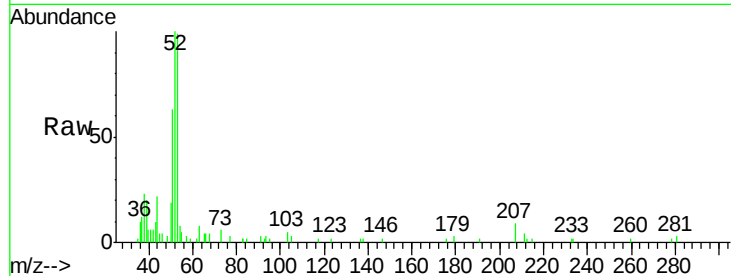
ClientSampleId :

VSTDIC010

Tot Ion:	53	Resp:	16431
Ion Ratio	Lower	Upper	
53	100		
52	100.6	76.8	115.2
51	63.6	41.8	62.8#

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#16

Acetone

Concen: 41.68 ug/l

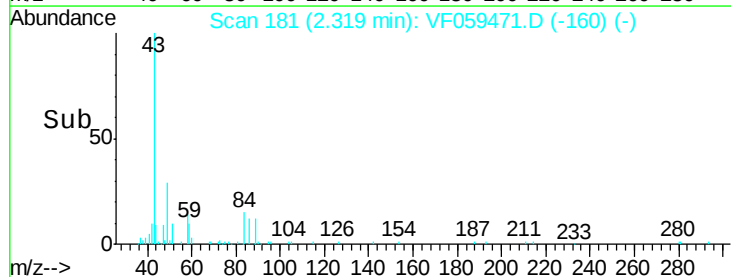
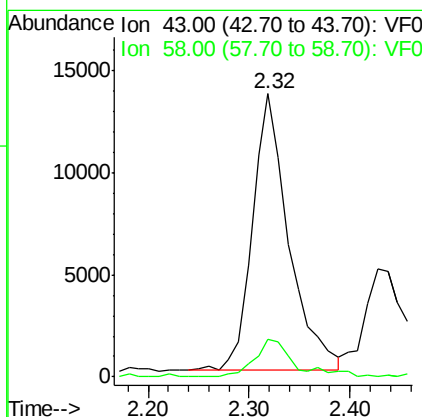
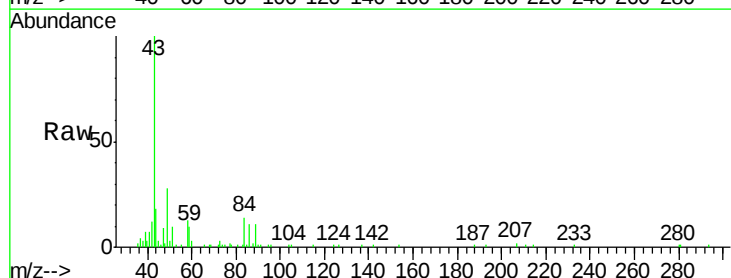
RT: 2.32 min Scan# 181

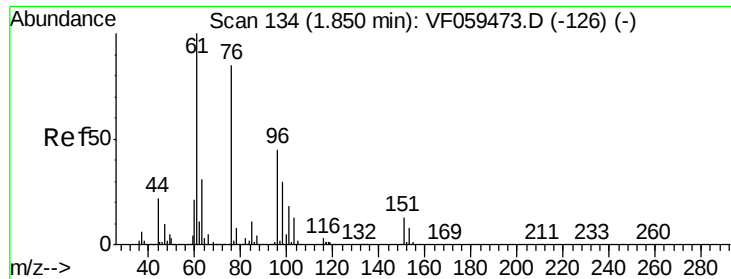
Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	43	Resp:	34080
Ion Ratio	Lower	Upper	
43	100		
58	13.1	10.5	15.7





#17

Carbon Disulfide

Concen: 12.91 ug/l

RT: 1.86 min Scan# 134

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 76 Resp: 45817

Ion Ratio Lower Upper

76 100

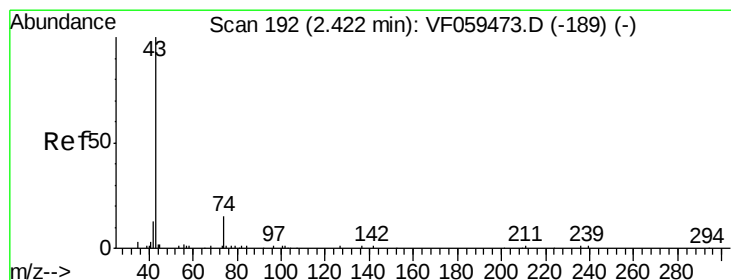
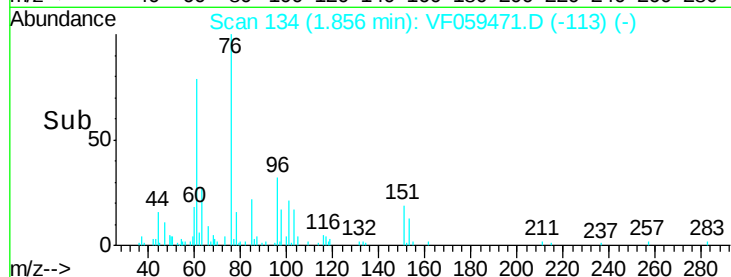
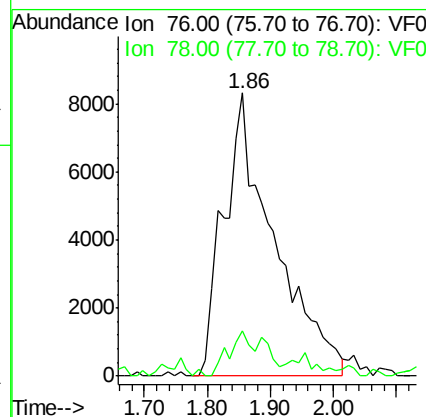
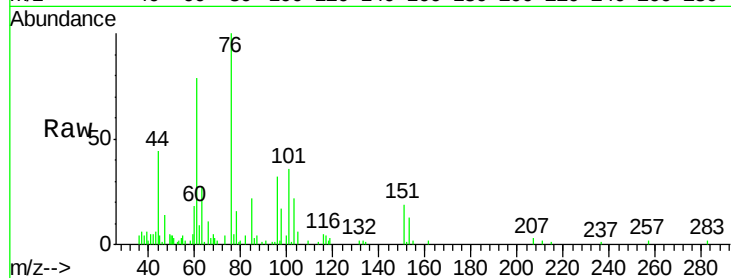
78 16.0 8.0 12.0#

Manual Integrations

APPROVED

apatel

7/9/2018 9:34:12 AM



#18

Methyl Acetate

Concen: 9.59 ug/l m

RT: 2.43 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF059471.D

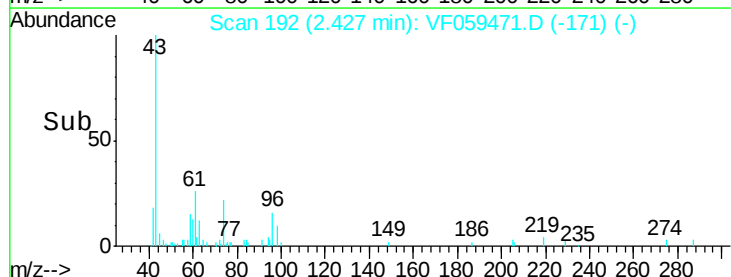
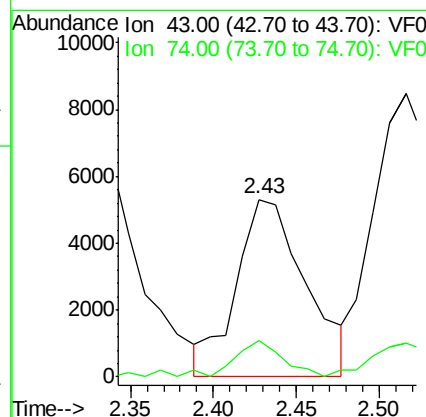
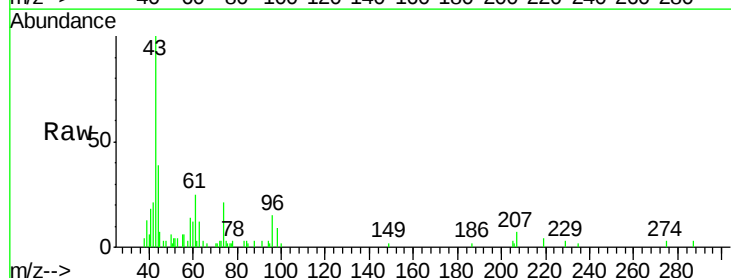
Acq: 7 Jul 2018 2:32

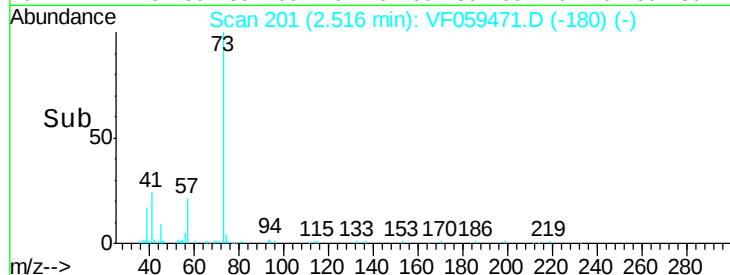
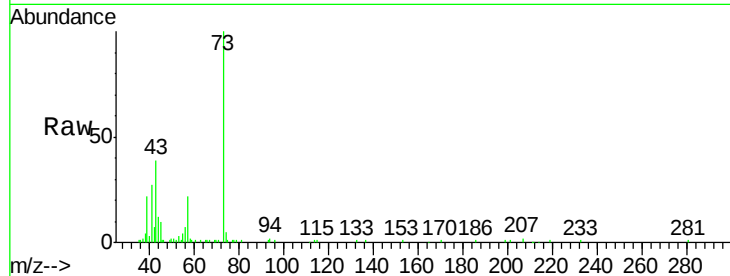
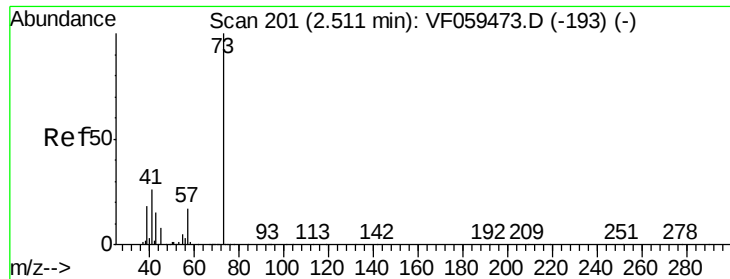
Tgt Ion: 43 Resp: 15516

Ion Ratio Lower Upper

43 100

74 20.7 10.8 16.2#





#19

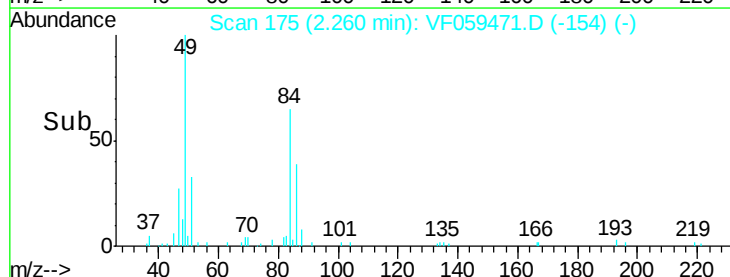
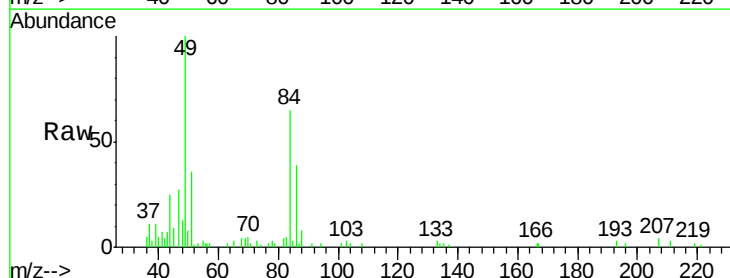
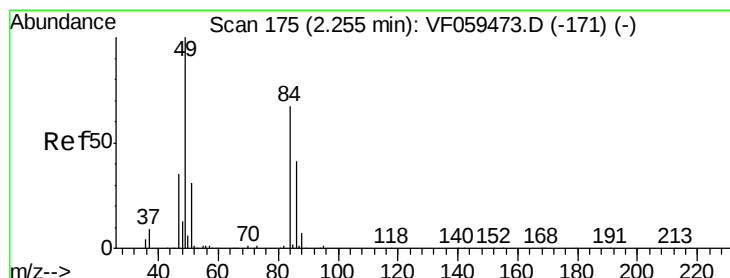
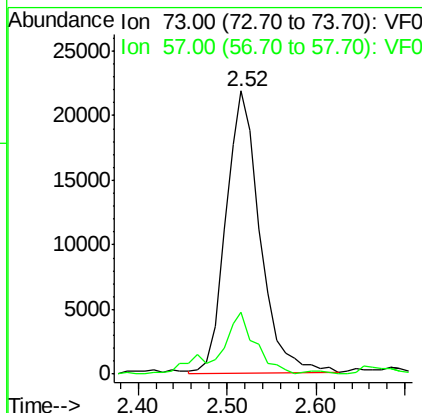
Methyl tert-butyl Ether
Concen: 10.78 ug/l
RT: 2.52 min Scan# 201
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.0	13.7	20.5#

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

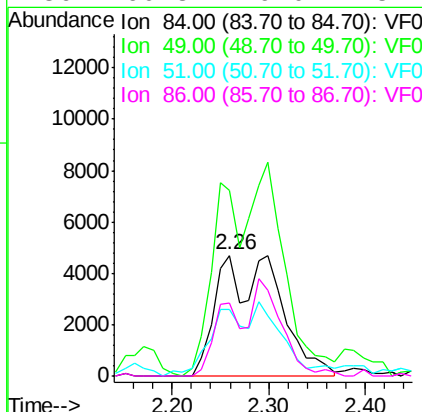
apatel
7/9/2018 9:34:12 AM

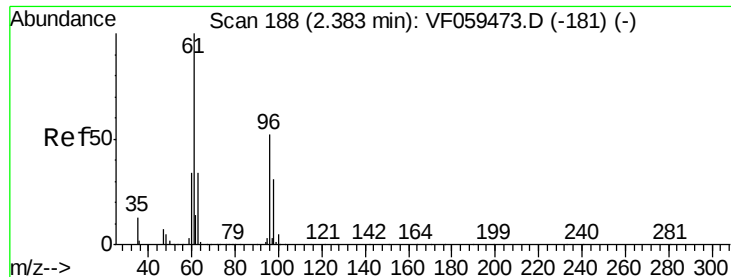


#20

Methylene Chloride
Concen: 8.88 ug/l m
RT: 2.26 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.8	120.4	180.6
51	55.3	38.1	57.1
86	60.3	49.0	73.4





#21

trans-1,2-Dichloroethene

Concen: 12.21 ug/l

RT: 2.39 min Scan# 188

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

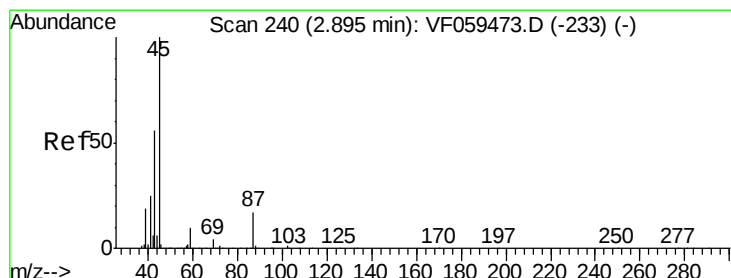
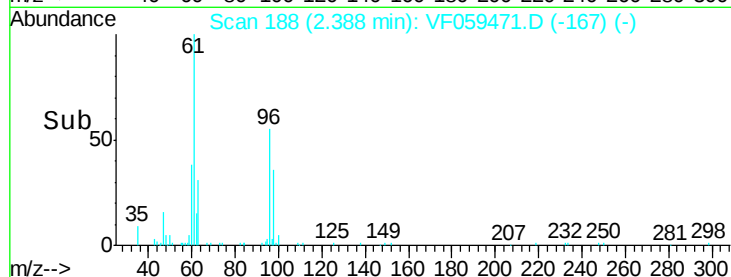
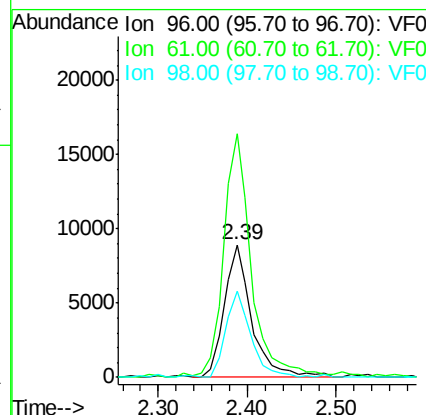
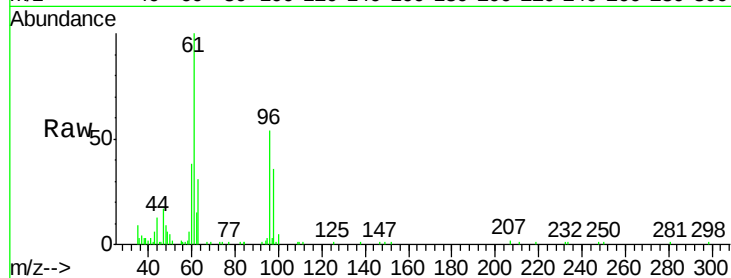
ClientSampleId :

VSTDIC010

Tot Ion:	96	Resp:	19286
Ion	Ratio	Lower	Upper
96	100		
61	184.1	154.3	231.5
98	65.6	48.2	72.4

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#22

Diisopropyl ether

Concen: 10.18 ug/l

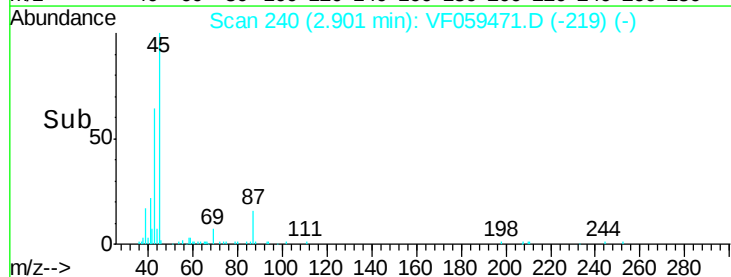
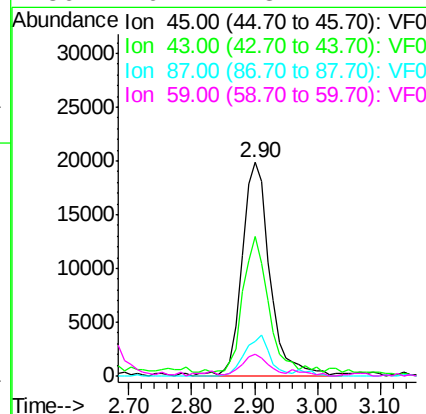
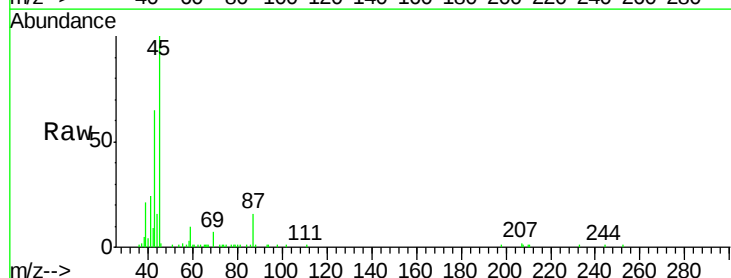
RT: 2.90 min Scan# 240

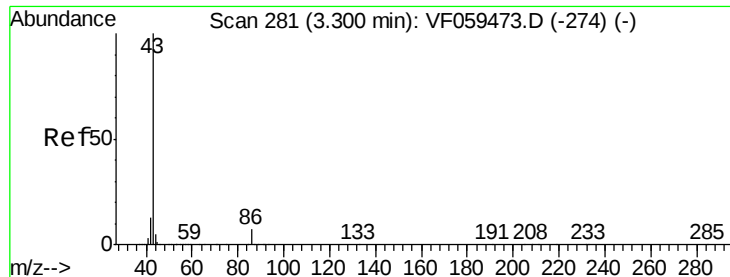
Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	45	Resp:	60552
Ion	Ratio	Lower	Upper
45	100		
43	65.3	45.4	68.2
87	16.2	13.5	20.3
59	10.2	8.2	12.4





#23

Vinyl Acetate

Concen: 50.58 ug/l

RT: 3.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 189964

Ion Ratio Lower Upper

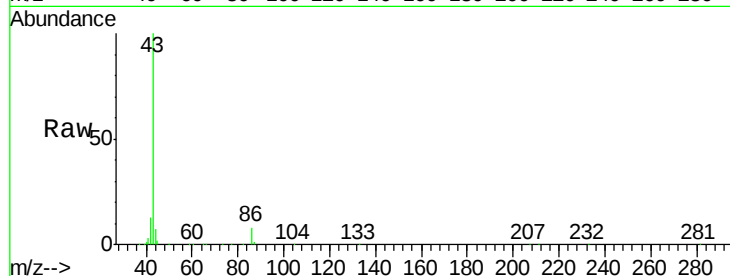
43 100

86 7.6 5.3 7.9

Manual Integrations
APPROVED

apatel

7/9/2018 9:34:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.30

80000

60000

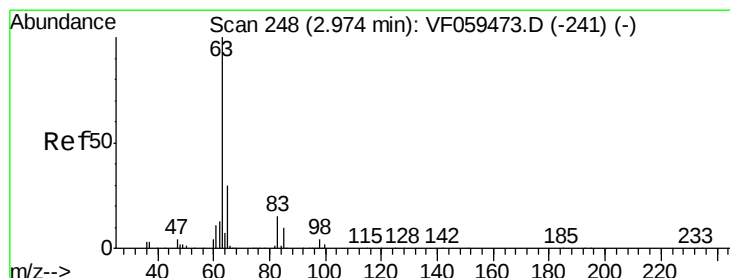
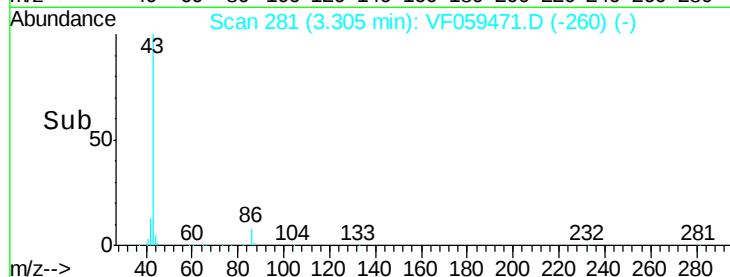
40000

20000

0

Time-->

3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 11.17 ug/l

RT: 2.97 min Scan# 247

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

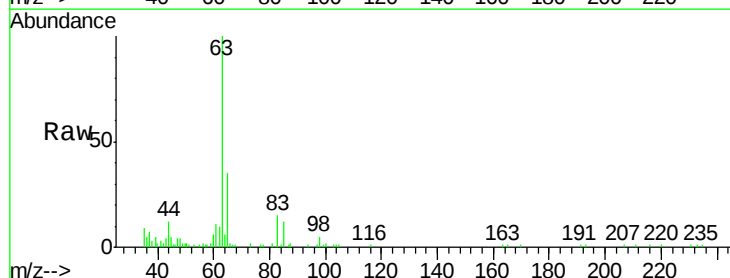
Tgt Ion: 63 Resp: 42068

Ion Ratio Lower Upper

63 100

98 4.6 1.8 5.5

100 2.4 1.1 3.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

20000

15000

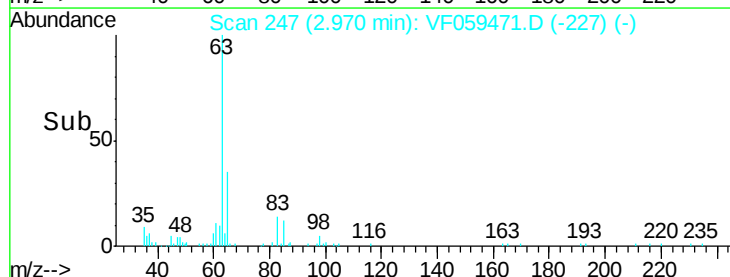
10000

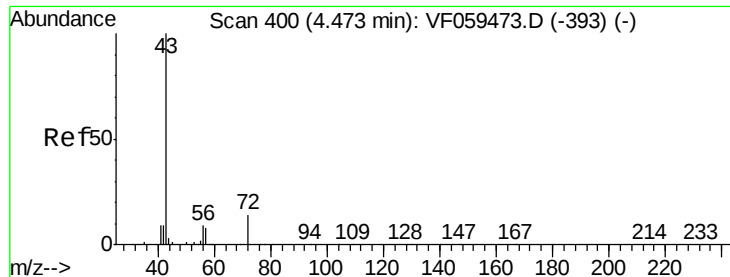
5000

0

Time-->

2.80 2.90 3.00 3.10





#25

2-Butanone

Concen: 41.84 ug/l

RT: 4.48 min Scan# 400

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 41222

Ion Ratio Lower Upper

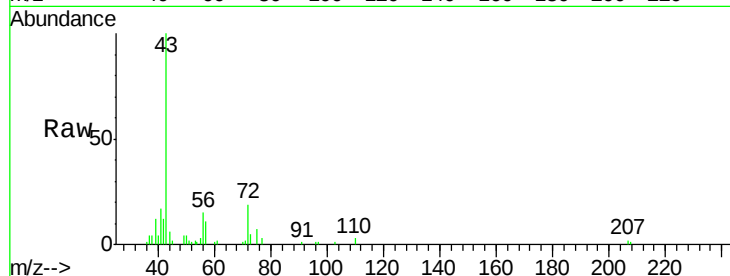
43 100

72 19.4 13.8 20.8

Manual Integrations
APPROVED

apatel

7/9/2018 9:34:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

12000

10000

8000

6000

4000

2000

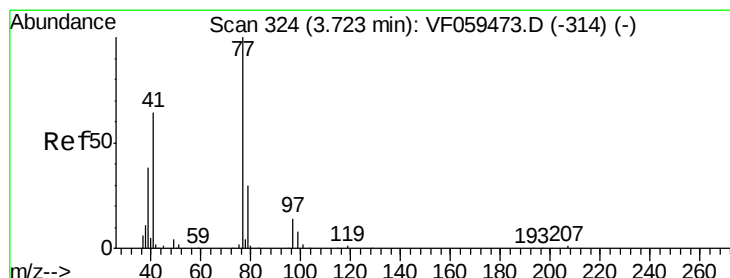
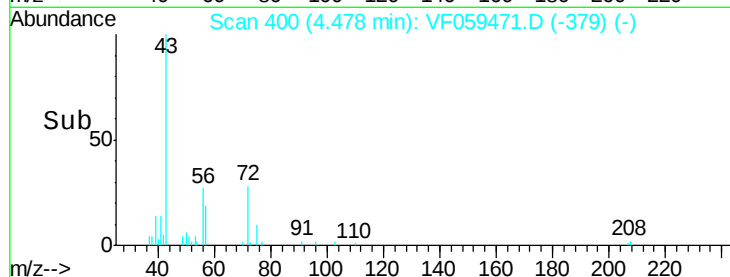
0

4.40

4.50

4.60

Time-->



#26

2,2-Dichloropropane

Concen: 9.83 ug/l

RT: 3.72 min Scan# 323

Delta R.T. -0.00 min

Lab File: VF059471.D

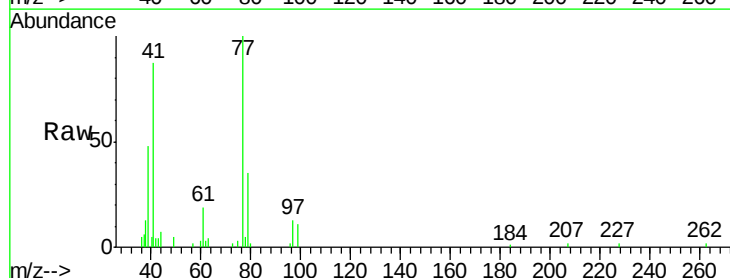
Acq: 7 Jul 2018 2:32

Tgt Ion: 77 Resp: 24781

Ion Ratio Lower Upper

77 100

97 13.2 7.7 23.1



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

8000

6000

4000

2000

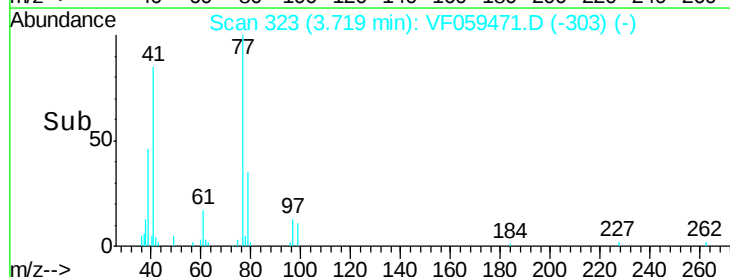
0

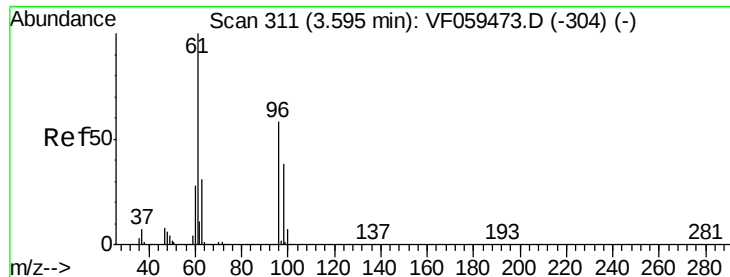
3.60

3.70

3.80

Time-->





#27

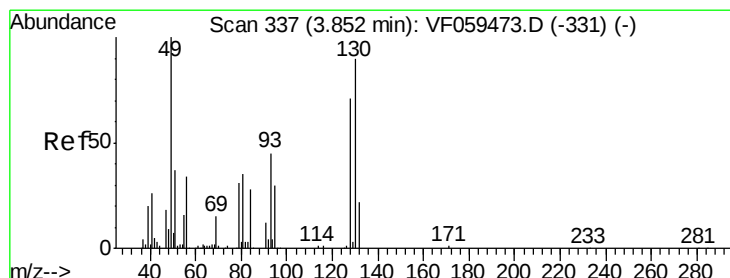
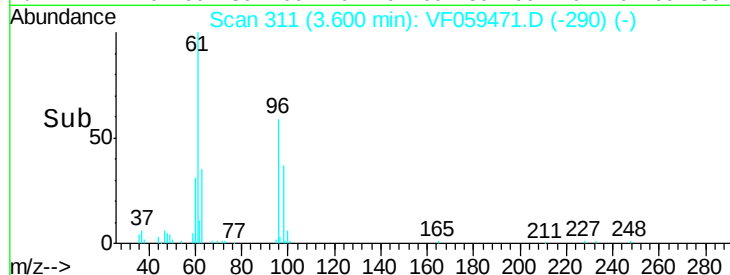
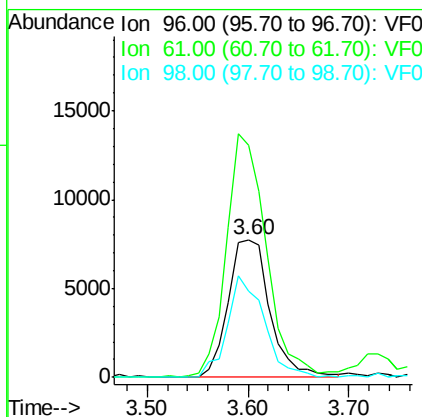
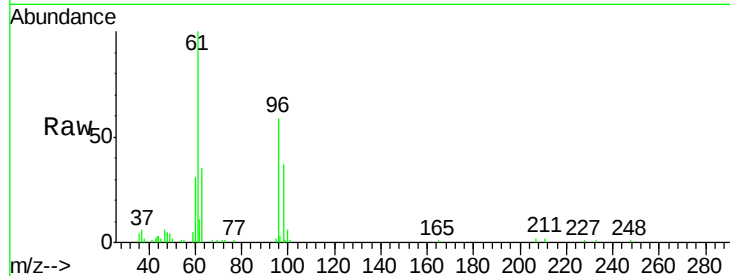
cis-1,2-Dichloroethene
Concen: 9.67 ug/l
RT: 3.60 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	160.7	0.0	342.0
98	59.5	0.0	130.0

Manual Integrations
APPROVED

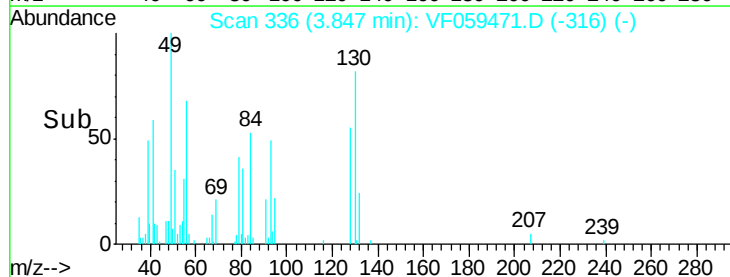
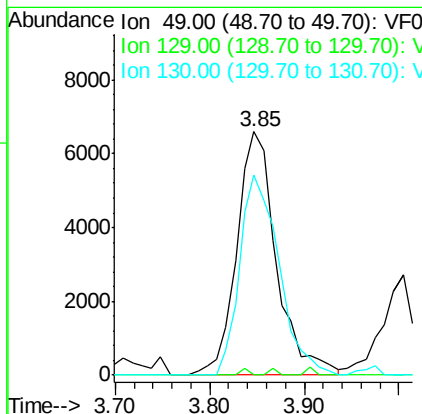
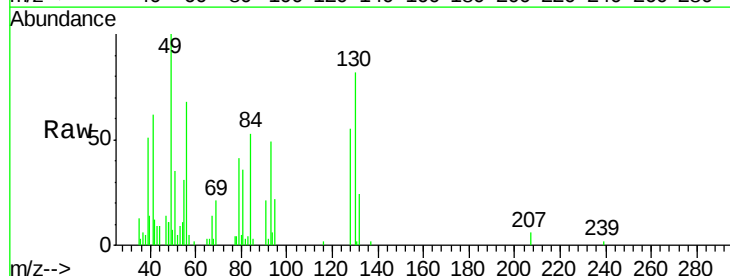
apatel
7/9/2018 9:34:12 AM

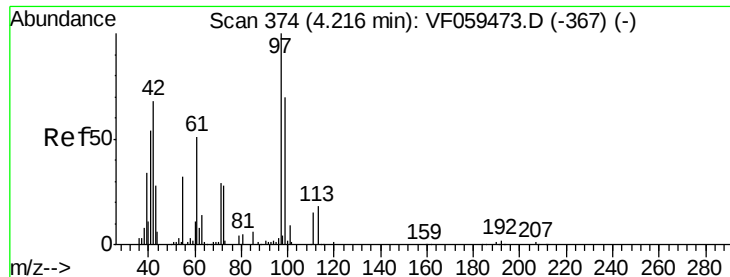


#28

Bromochloromethane
Concen: 11.73 ug/l
RT: 3.85 min Scan# 336
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	6.2
130	82.1	71.4	107.0





#29

Tetrahydrofuran

Concen: 44.63 ug/l

RT: 4.22 min Scan# 374

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

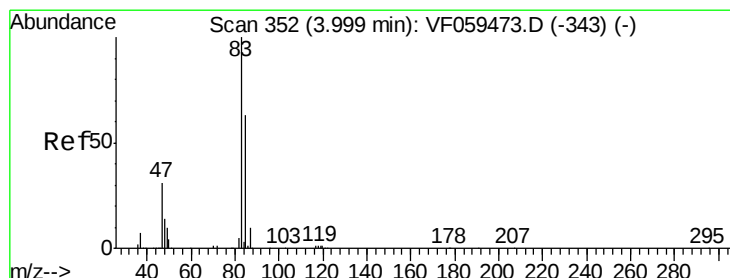
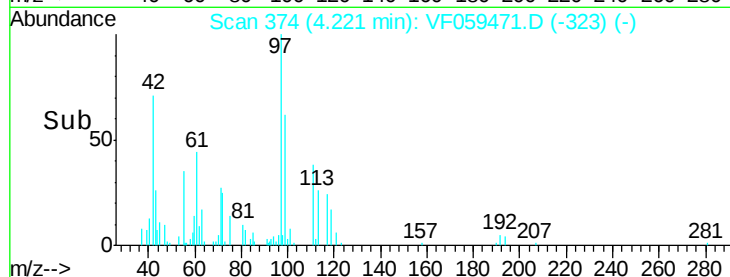
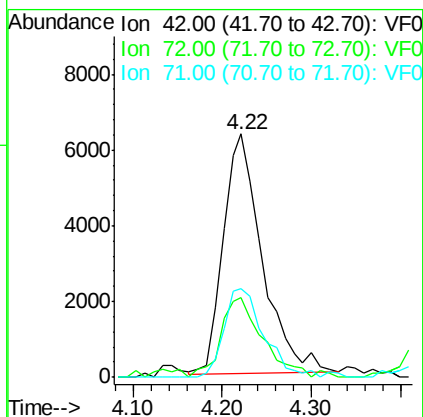
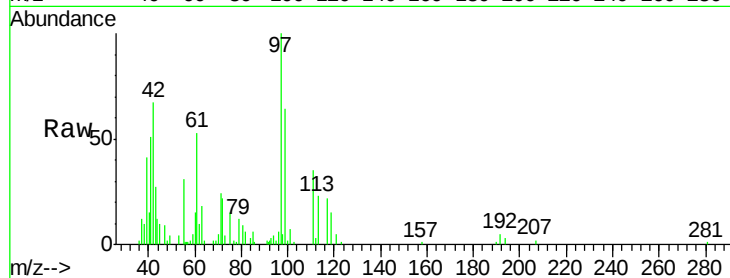
ClientSampleId :

VSTDIC010

Tot Ion:	42	Resp:	19393
Ion Ratio	Lower	Upper	
42	100		
72	35.2	29.2	43.8
71	37.7	30.1	45.1

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#30

Chloroform

Concen: 11.04 ug/l

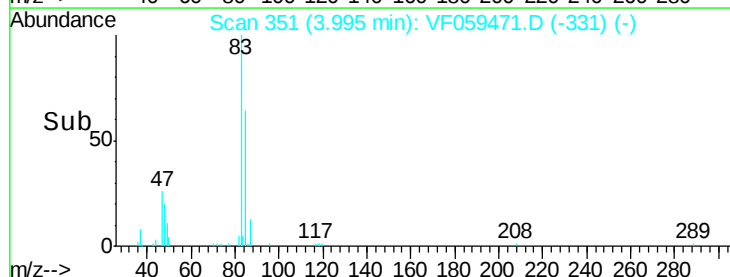
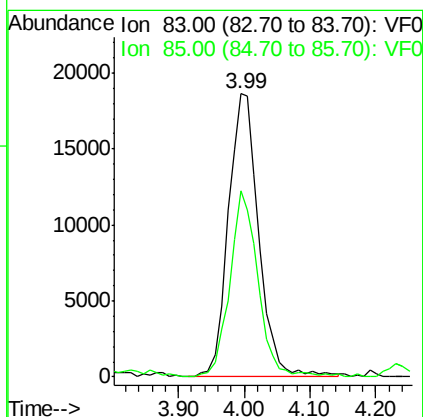
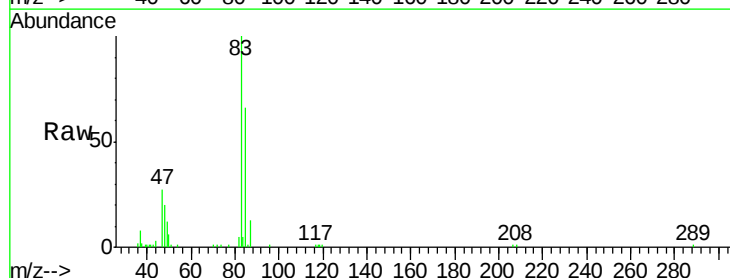
RT: 3.99 min Scan# 351

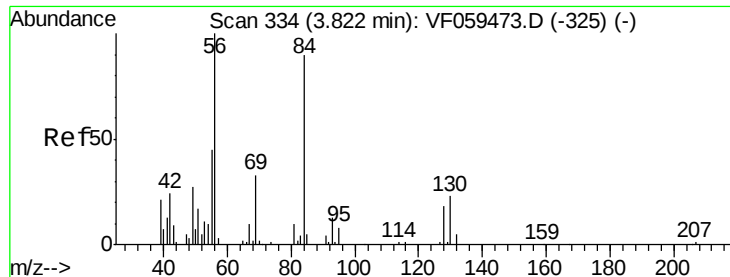
Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	83	Resp:	60173
Ion Ratio	Lower	Upper	
83	100		
85	65.6	50.3	75.5





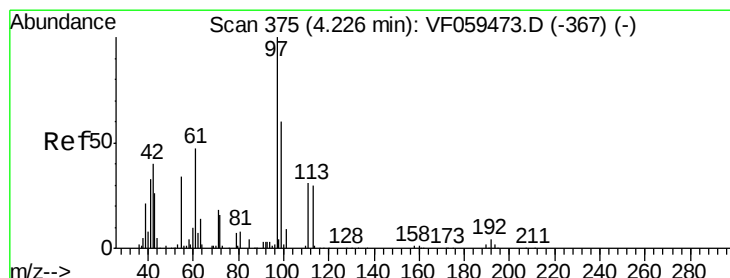
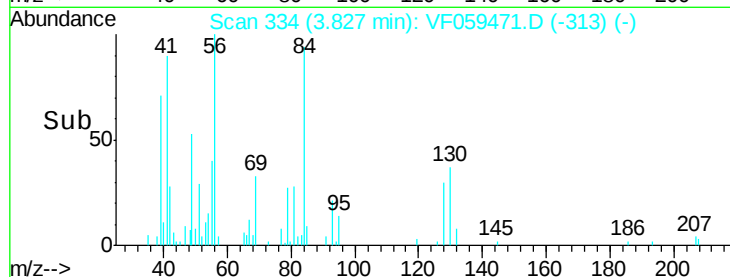
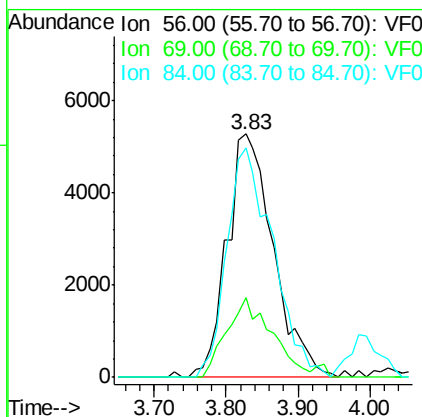
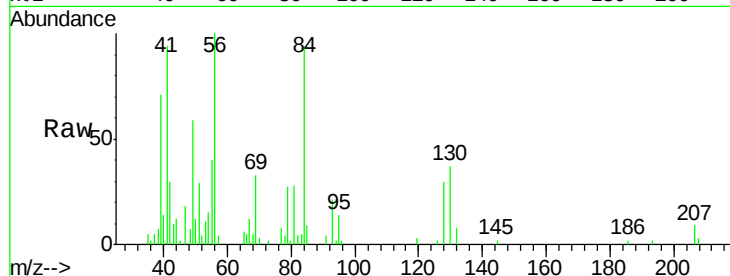
#31
Cyclohexane
Concen: 9.72 ug/l
RT: 3.83 min Scan# 334
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	26.2	39.2
84	94.3	72.3	108.5

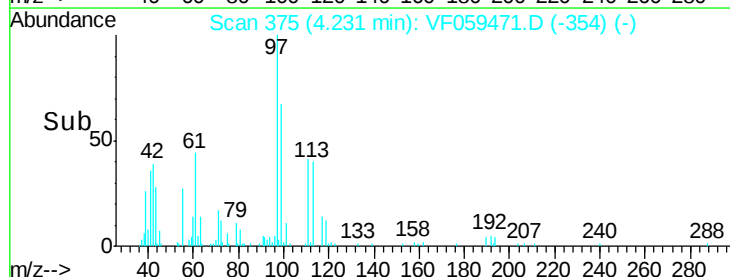
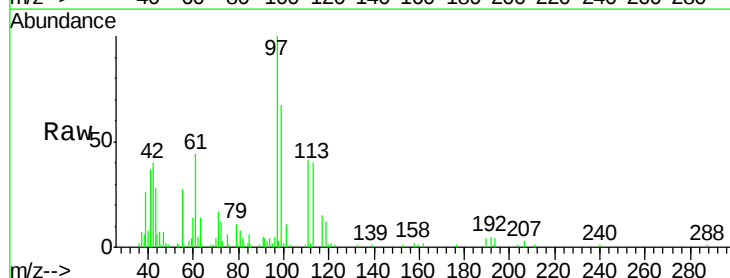
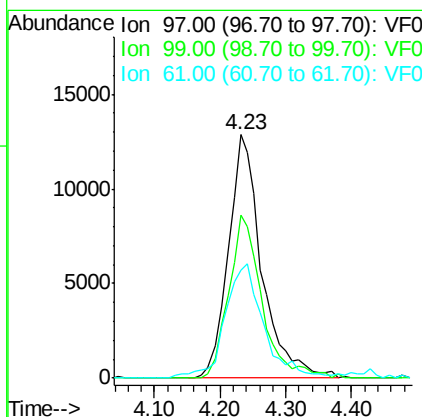
Manual Integrations
APPROVED

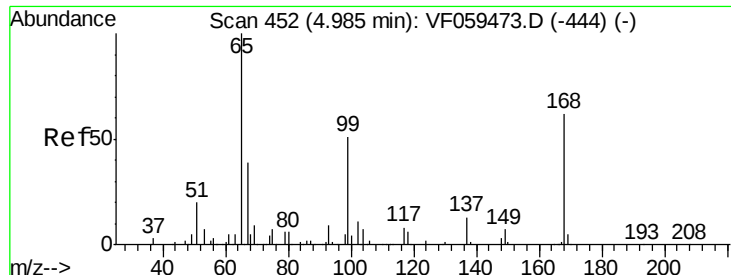
apatel
7/9/2018 9:34:12 AM



#32
1,1,1-Trichloroethane
Concen: 11.38 ug/l
RT: 4.23 min Scan# 375
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.0	47.8	71.6
61	44.4	37.9	56.9





#33

1,2-Dichloroethane-d4

Concen: 11.95 ug/l

RT: 4.98 min Scan# 451

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 65 Resp: 39719

Ion Ratio Lower Upper

65 100

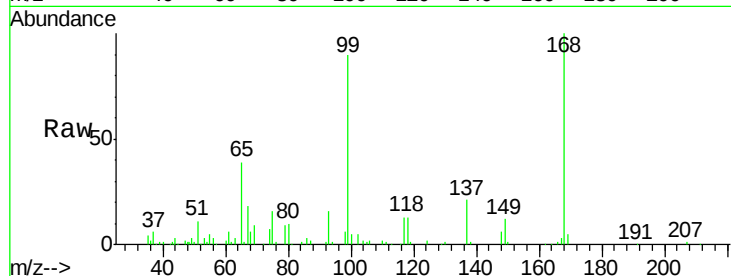
67 45.1 0.0 88.6

Manual Integrations

APPROVED

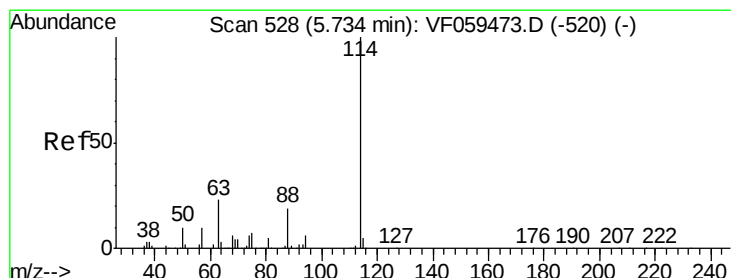
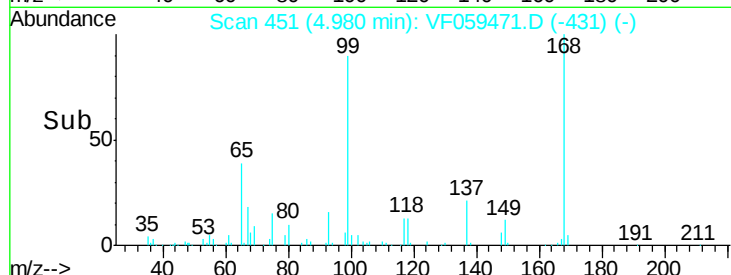
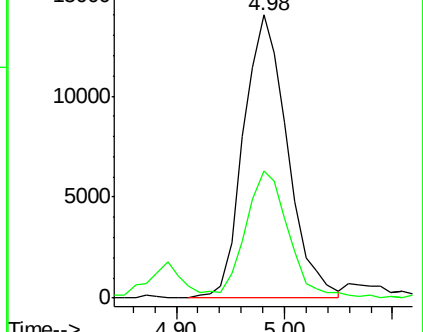
apatel

7/9/2018 9:34:12 AM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.73 min Scan# 527

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

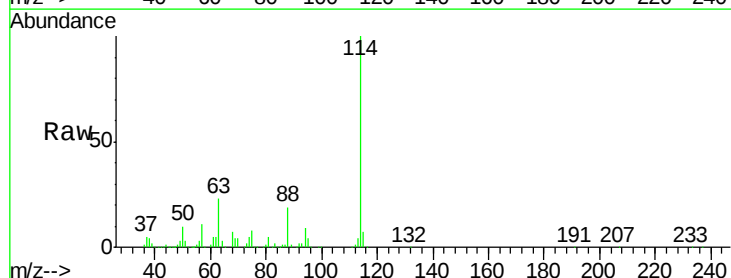
Tgt Ion: 114 Resp: 334598

Ion Ratio Lower Upper

114 100

63 22.7 0.0 47.2

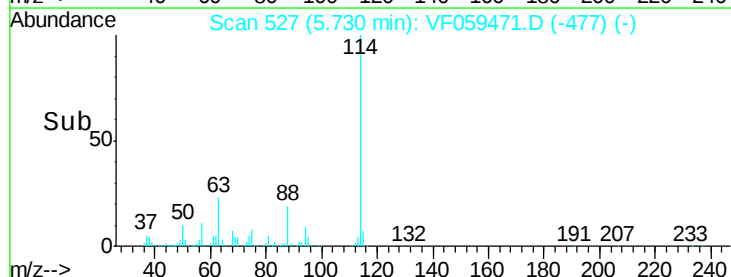
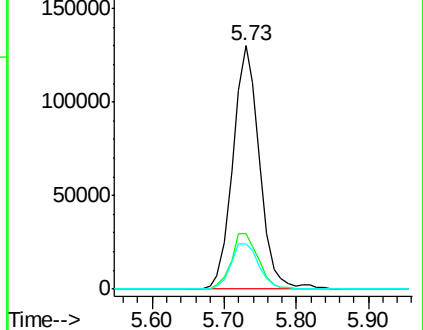
88 18.5 0.0 38.0

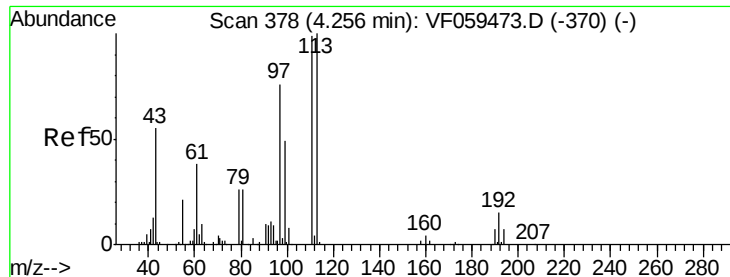


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 12.55 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

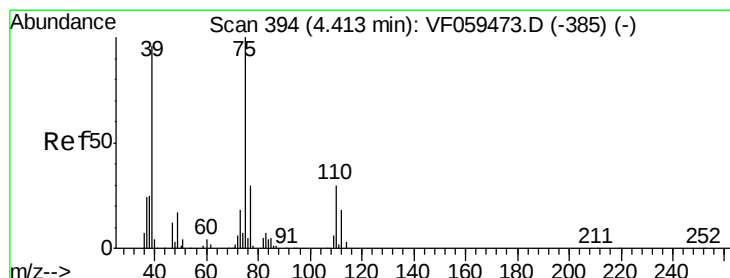
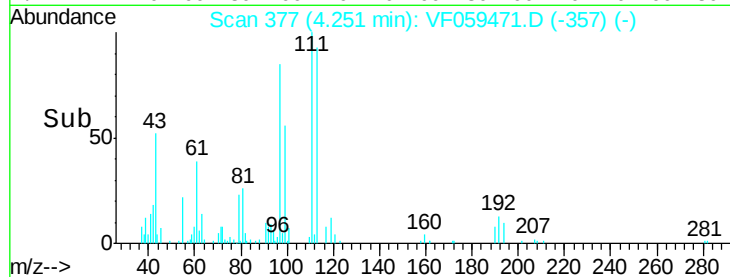
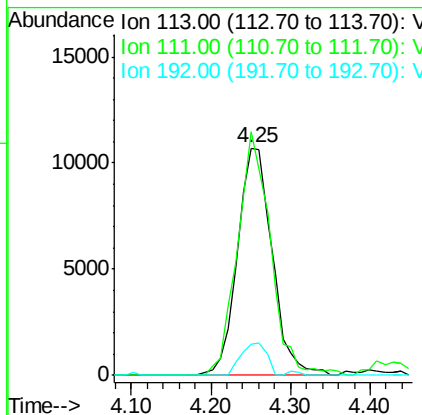
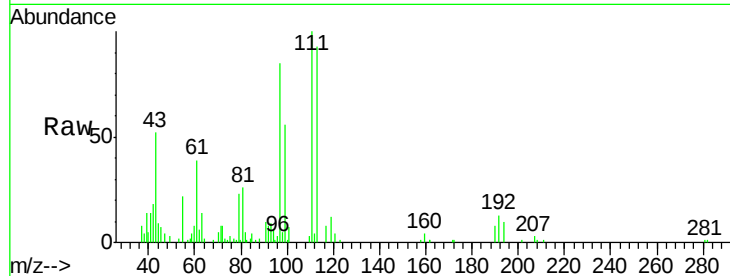
ClientSampleId :

VSTDIC010

Tot Ion:	113	Resp:	32375
Ion	Ratio	Lower	Upper
113	100		
111	107.0	79.3	118.9
192	13.9	12.0	18.0

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#36

1,1-Dichloropropene

Concen: 11.00 ug/l

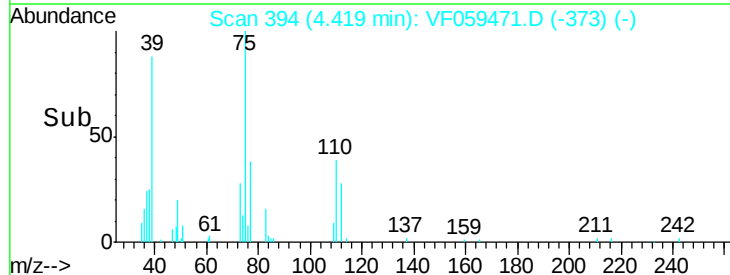
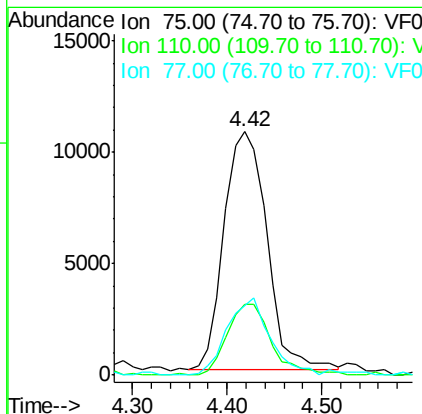
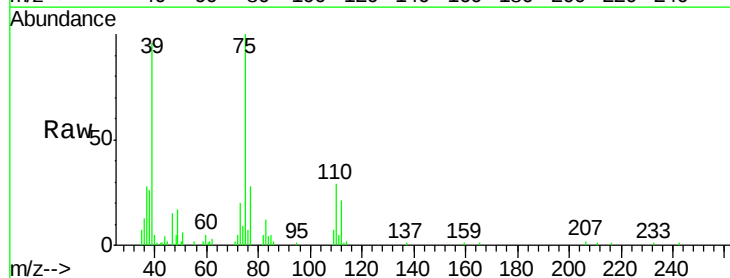
RT: 4.42 min Scan# 394

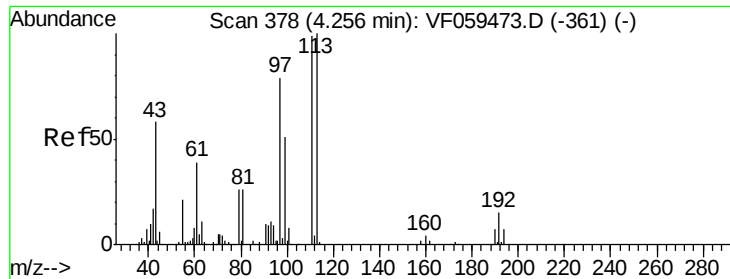
Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	75	Resp:	33584
Ion	Ratio	Lower	Upper
75	100		
110	29.2	15.2	45.5
77	28.3	24.2	36.2





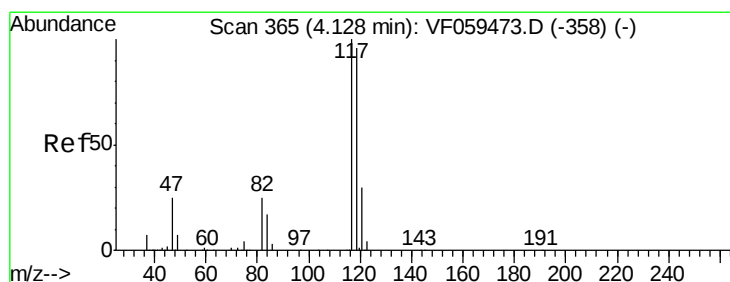
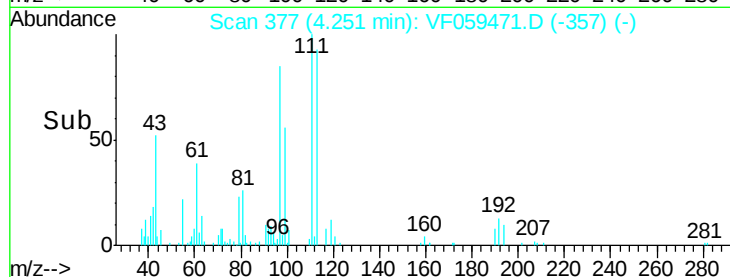
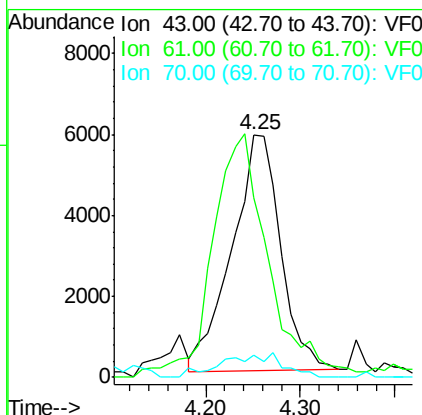
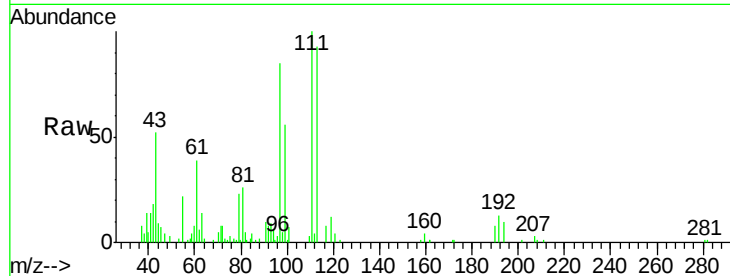
#37
Ethyl Acetate
Concen: 10.07 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	73.9	54.2	81.4
70	9.2	7.0	10.6

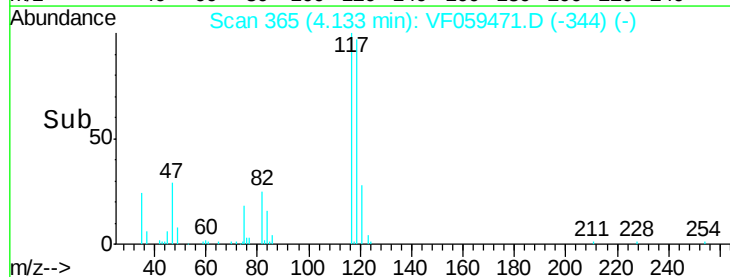
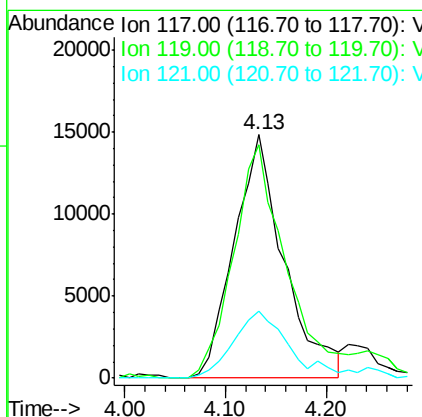
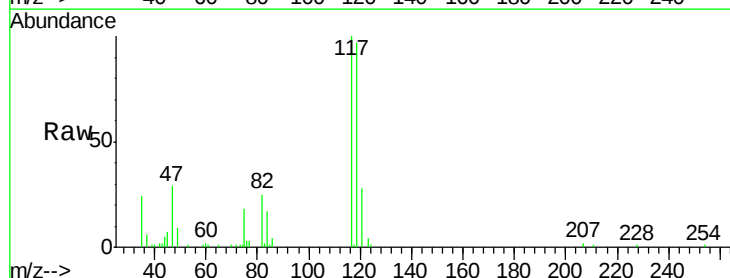
Manual Integrations
APPROVED

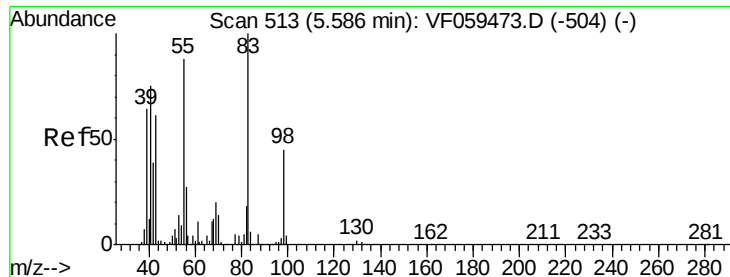
apatel
7/9/2018 9:34:12 AM



#38
Carbon Tetrachloride
Concen: 13.05 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.5	114.7
121	27.4	23.6	35.4





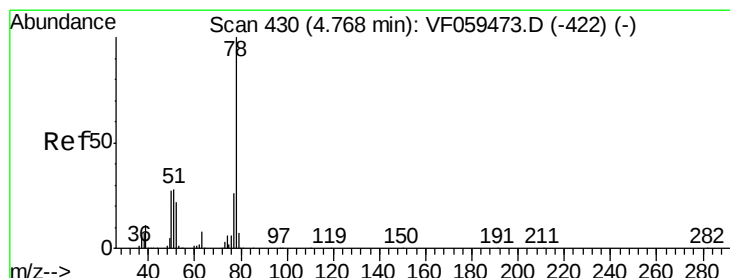
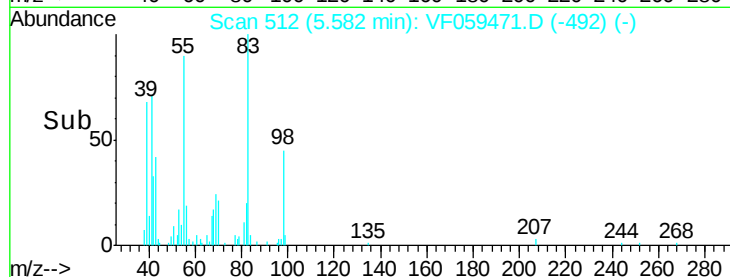
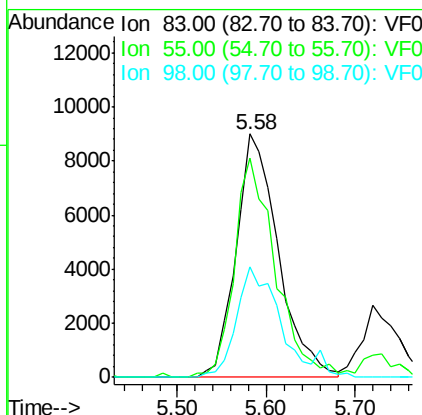
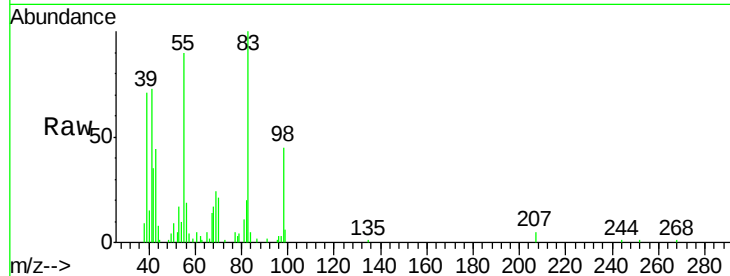
#39
Methvlcvclohexane
Concen: 10.94 ug/l
RT: 5.58 min Scan# 512
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.2	70.6	105.8
98	45.3	36.3	54.5

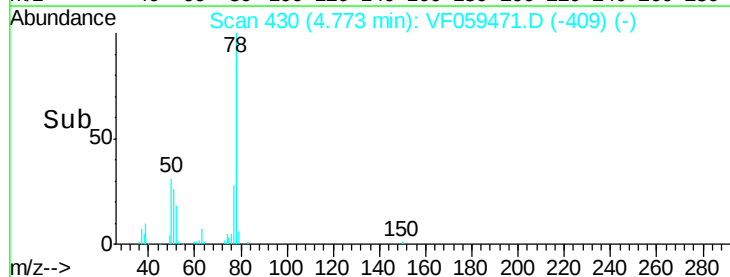
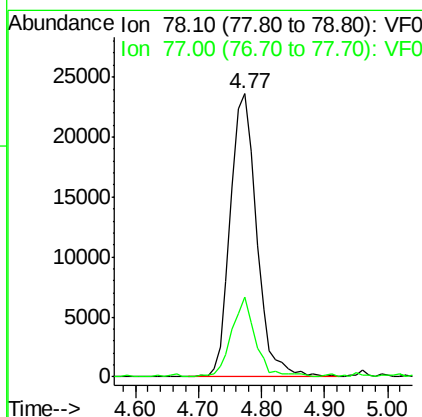
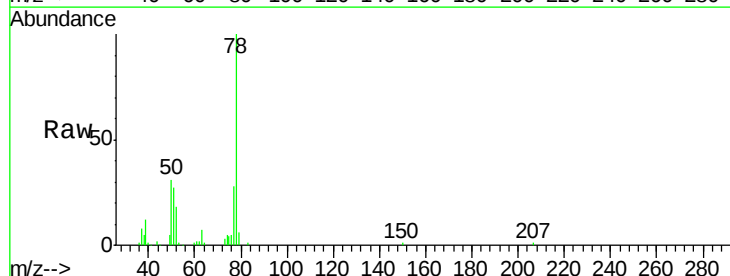
Manual Integrations
APPROVED

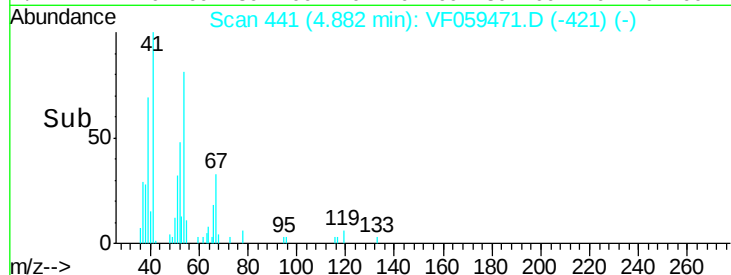
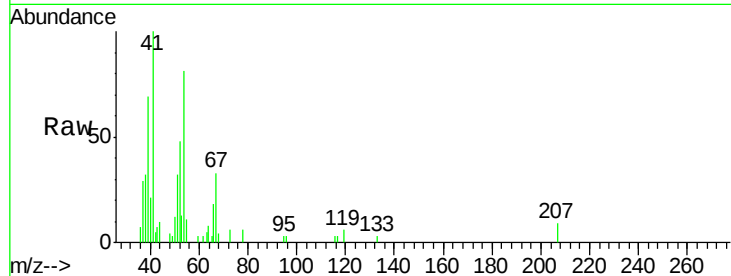
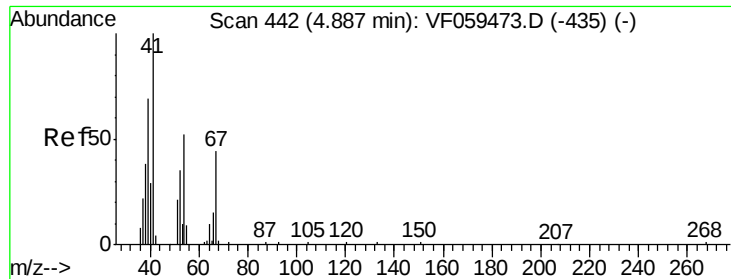
apatel
7/9/2018 9:34:12 AM



#40
Benzene
Concen: 10.38 ug/l
RT: 4.77 min Scan# 430
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.4	20.8	31.2





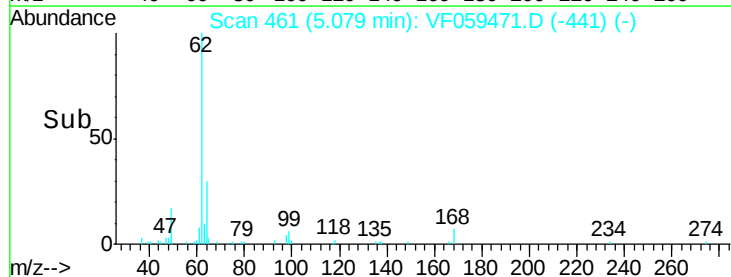
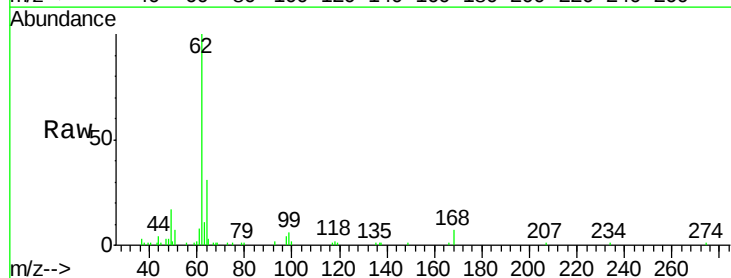
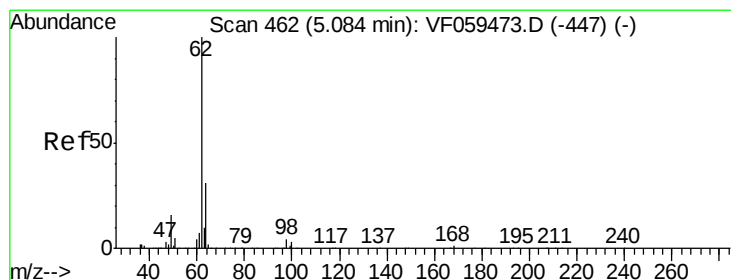
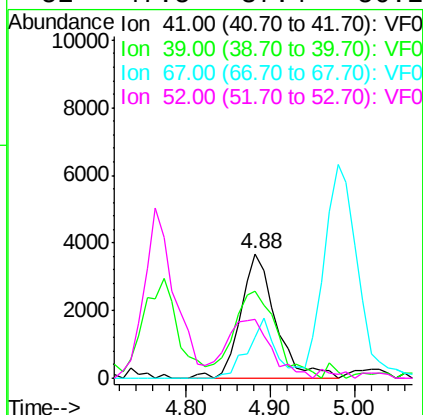
#41
Methacrylonitrile
Concen: 10.68 ug/l
RT: 4.88 min Scan# 441
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tot Ion	Ratio	Lower	Upper
41	100		
39	69.4	61.7	92.5
67	32.6	35.4	53.2
52	47.5	37.4	56.2

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

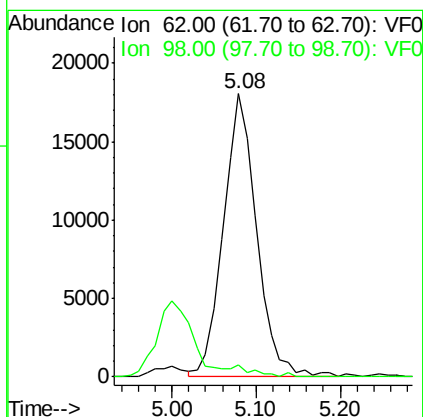
Manual Integrations
APPROVED

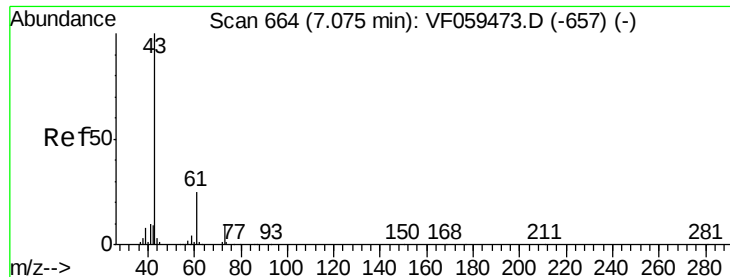
apatel
7/9/2018 9:34:12 AM



#42
1,2-Dichloroethane
Concen: 12.36 ug/l
RT: 5.08 min Scan# 461
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.1	0.0	7.6





#43

Isopropyl Acetate

Concen: 9.68 ug/l

RT: 7.08 min Scan# 664

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

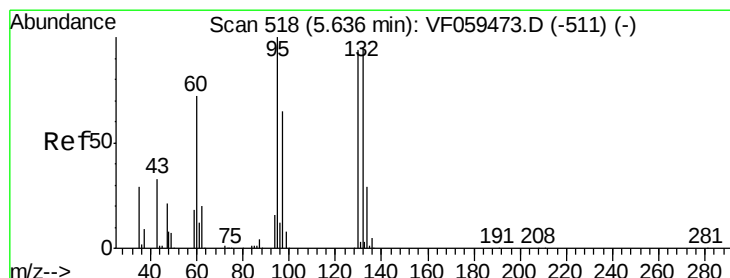
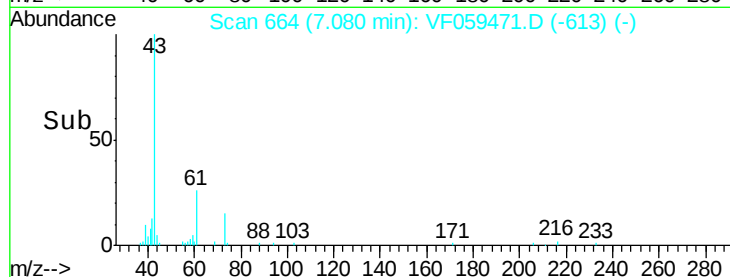
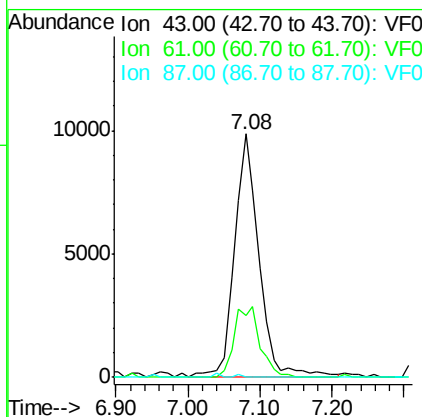
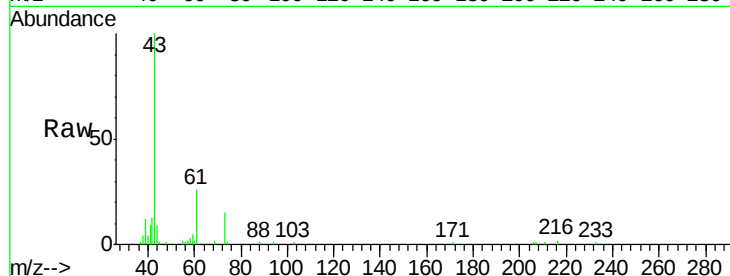
ClientSampleId :

VSTDIC010

Tot Ion:	43	Resp:	23484
Ion	Ratio	Lower	Upper
43	100		
61	25.6	20.3	30.5
87	0.0	0.3	0.5#

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#44

Trichloroethene

Concen: 11.53 ug/l

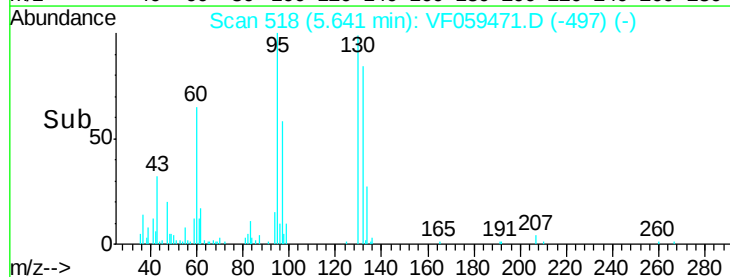
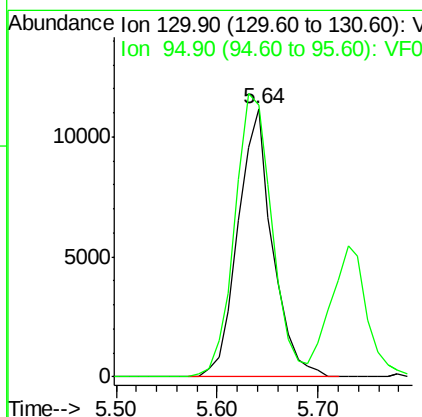
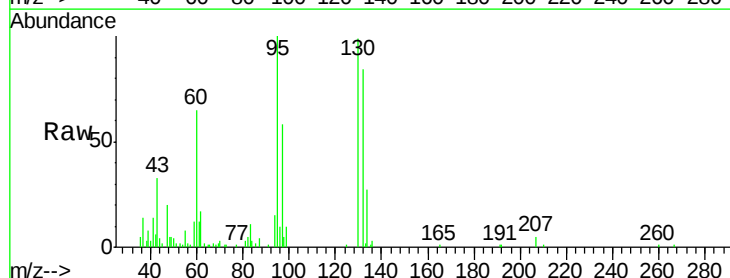
RT: 5.64 min Scan# 518

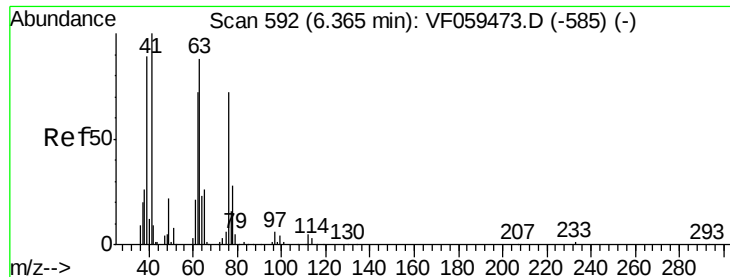
Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	130	Resp:	26557
Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	214.6





#45

1,2-Dichloropropane

Concen: 10.34 ug/l

RT: 6.36 min Scan# 591

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 63 Resp: 19341

Ion Ratio Lower Upper

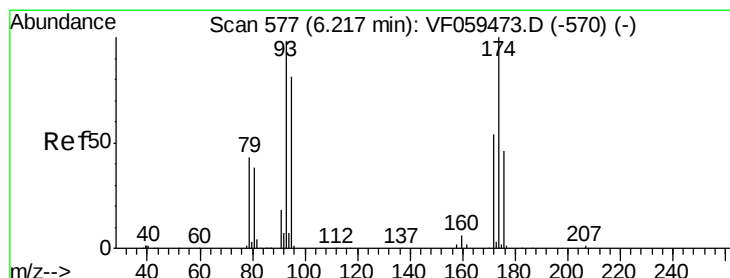
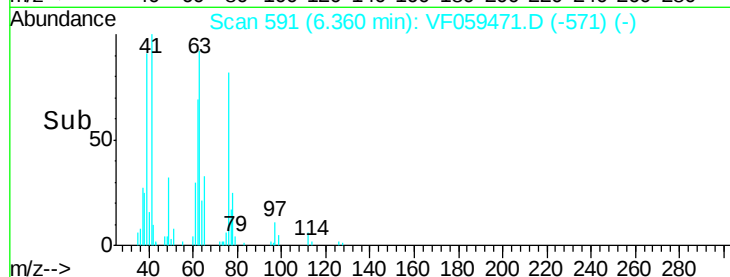
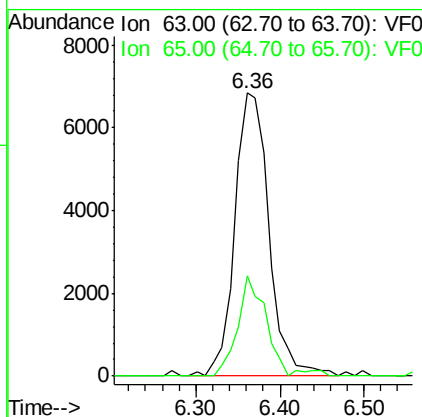
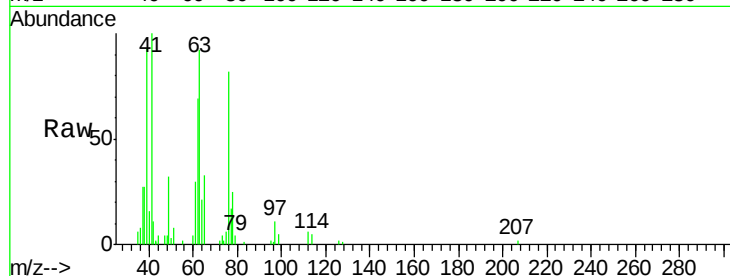
63 100

65 35.5 23.5 35.3#

Manual Integrations
APPROVED

apatel

7/9/2018 9:34:12 AM



#46

Dibromomethane

Concen: 10.56 ug/l

RT: 6.22 min Scan# 577

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

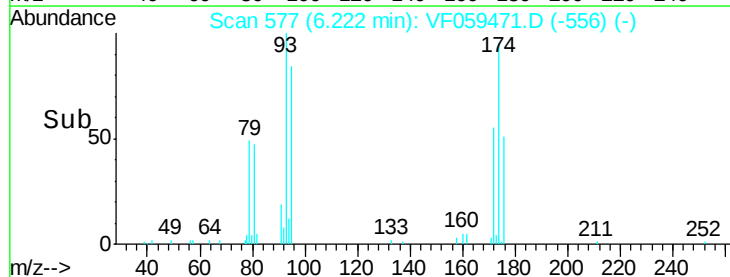
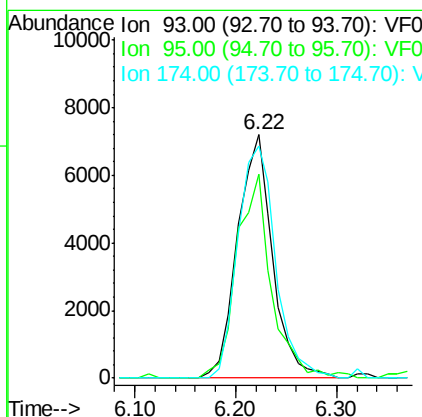
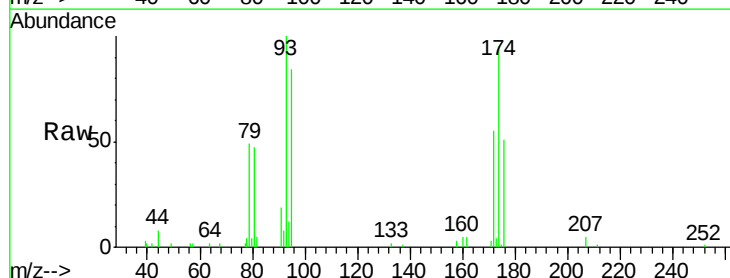
Tgt Ion: 93 Resp: 17415

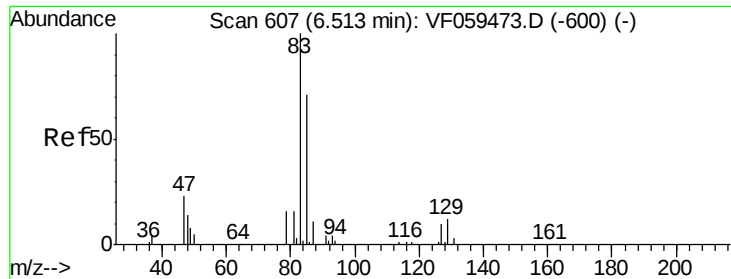
Ion Ratio Lower Upper

93 100

95 84.0 65.9 98.9

174 95.1 83.2 124.8





#47

Bromodichloromethane

Concen: 11.78 ug/l

RT: 6.51 min Scan# 606

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

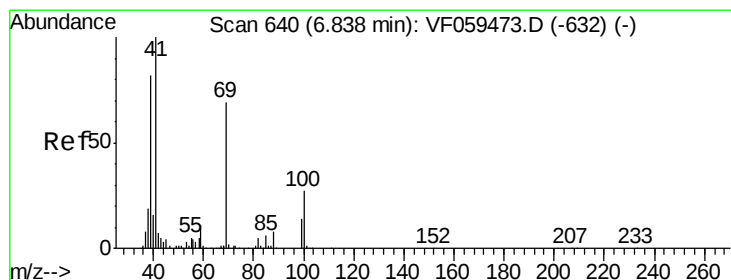
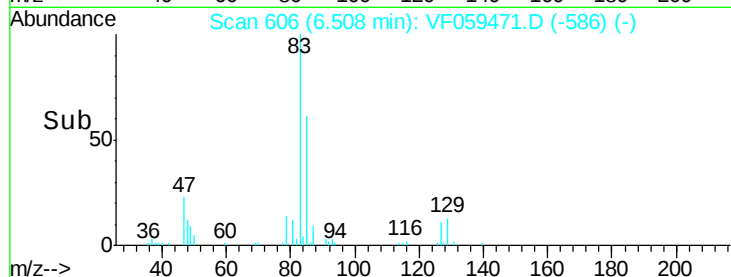
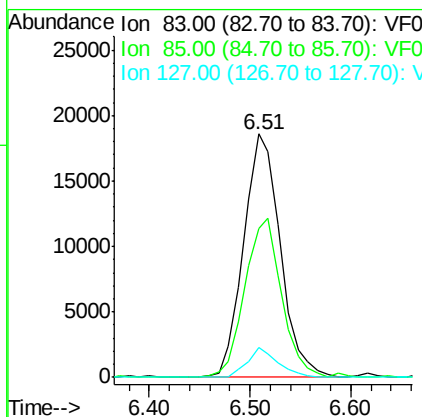
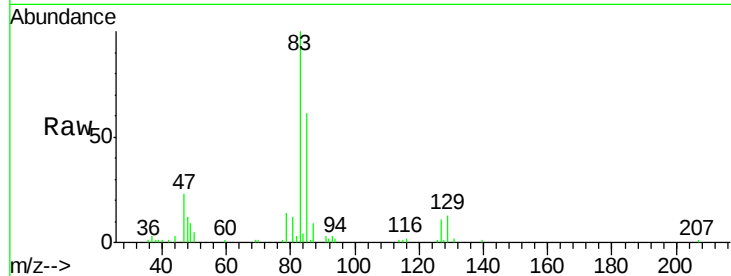
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	47273
Ion	Ratio	Lower	Upper
83	100		
85	61.1	56.6	84.8
127	12.0	8.1	12.1

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#48

Methyl methacrylate

Concen: 8.91 ug/l

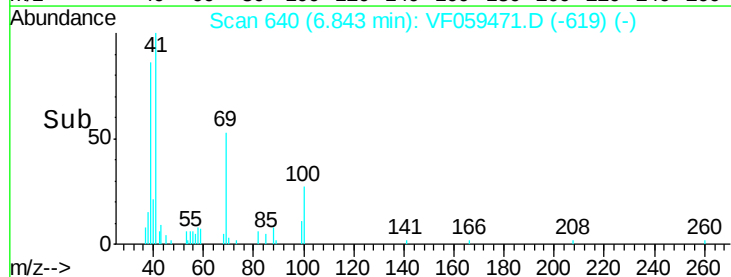
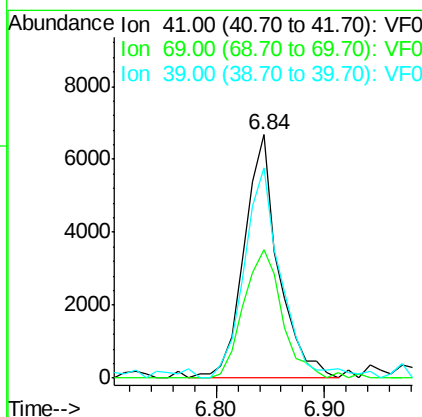
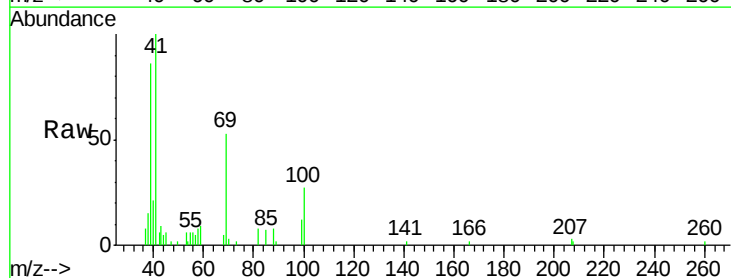
RT: 6.84 min Scan# 640

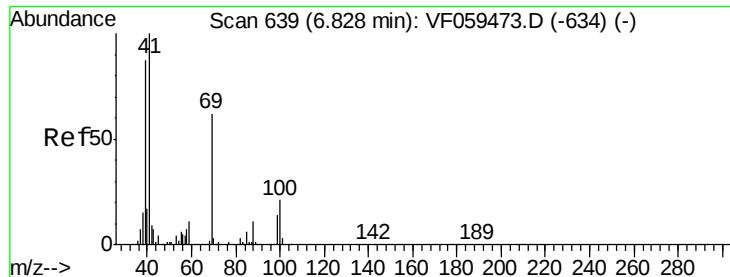
Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	41	Resp:	14709
Ion	Ratio	Lower	Upper
41	100		
69	52.7	55.6	83.4#
39	86.4	66.0	99.0





#49

1,4-Dioxane

Concen: 122.48 ug/l

RT: 6.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

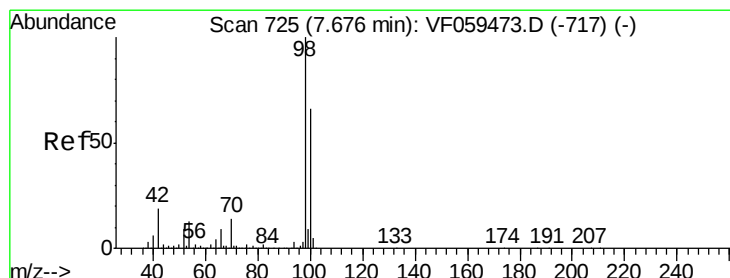
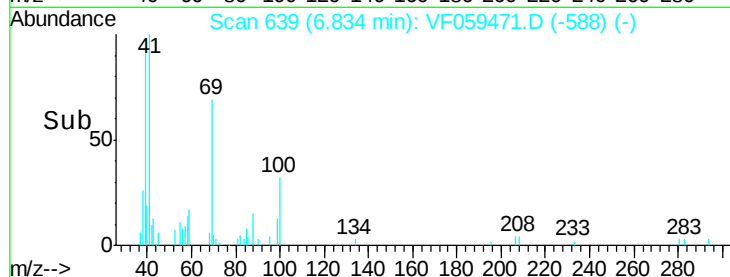
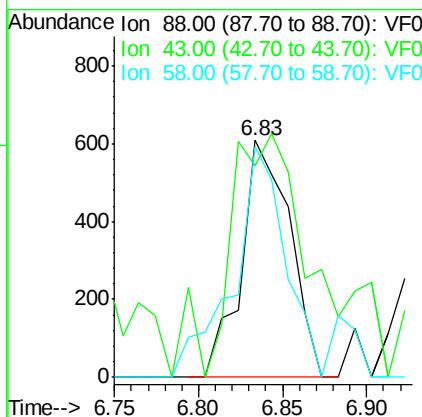
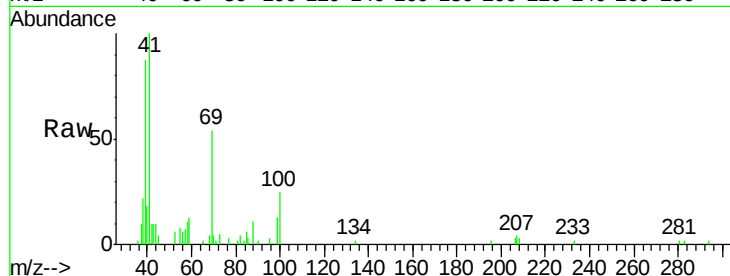
ClientSampleId :

VSTDIC010

Tot Ion:	88	Resp:	1219
Ion	Ratio	Lower	Upper
88	100		
43	89.5	57.3	85.9#
58	97.4	54.6	81.8#

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#50

Toluene-d8

Concen: 11.52 ug/l

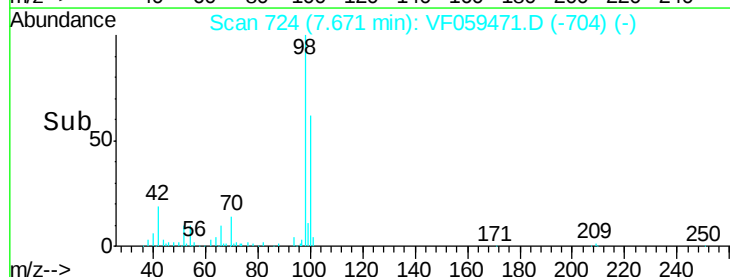
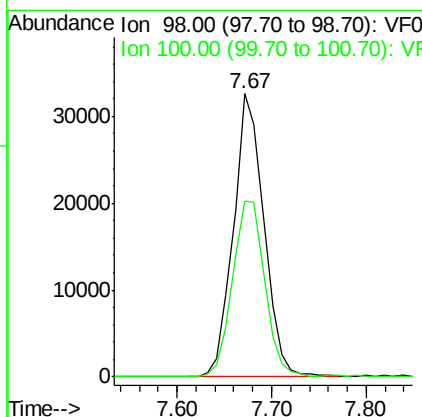
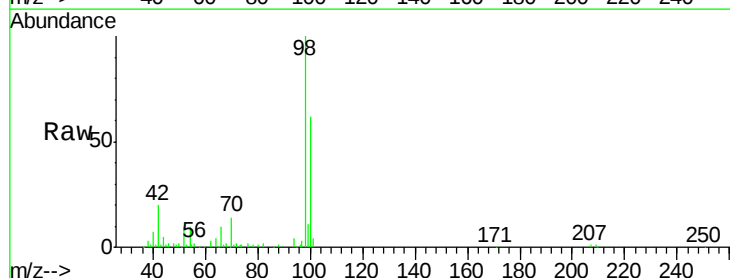
RT: 7.67 min Scan# 724

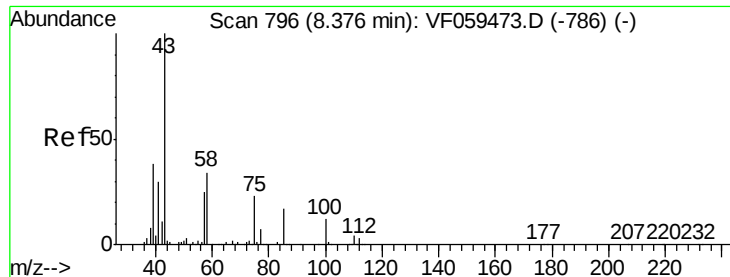
Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	98	Resp:	73053
Ion	Ratio	Lower	Upper
98	100		
100	62.2	52.6	78.8





#51

4-Methyl-2-Pentanone

Concen: 55.03 ug/l

RT: 8.37 min Scan# 795

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 99494

Ion Ratio Lower Upper

43 100

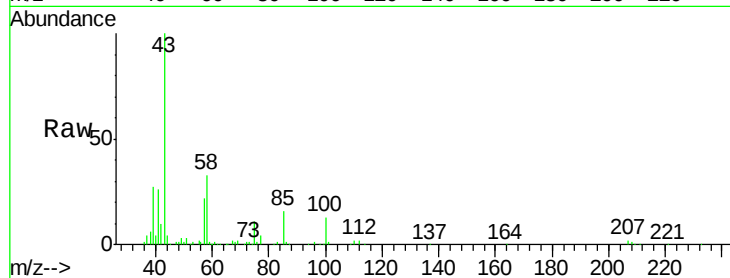
58 32.8 27.4 41.2

Manual Integrations

APPROVED

apatel

7/9/2018 9:34:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.37

40000

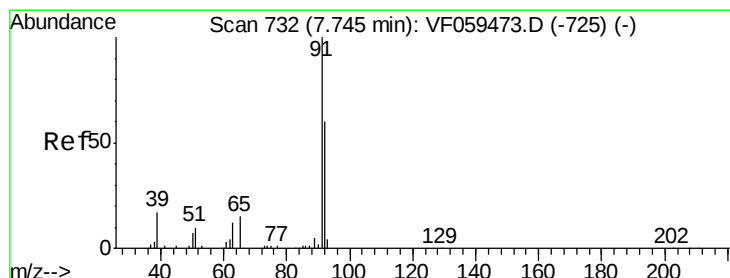
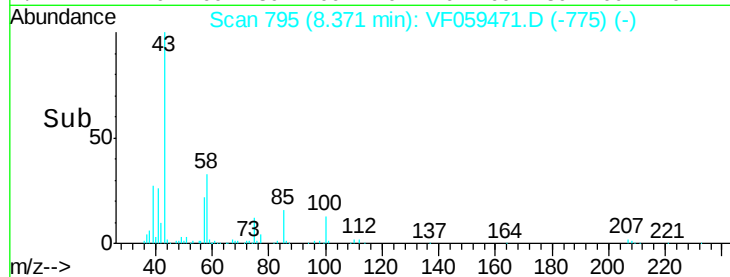
30000

20000

10000

0

Time--> 8.20 8.30 8.40 8.50



#52

Toluene

Concen: 10.77 ug/l

RT: 7.74 min Scan# 731

Delta R.T. -0.00 min

Lab File: VF059471.D

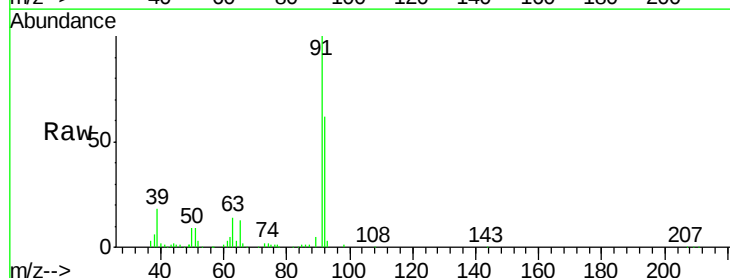
Acq: 7 Jul 2018 2:32

Tgt Ion: 92 Resp: 53323

Ion Ratio Lower Upper

92 100

91 161.0 134.3 201.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.74

40000

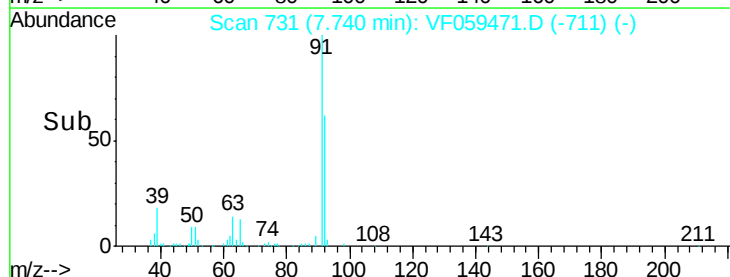
30000

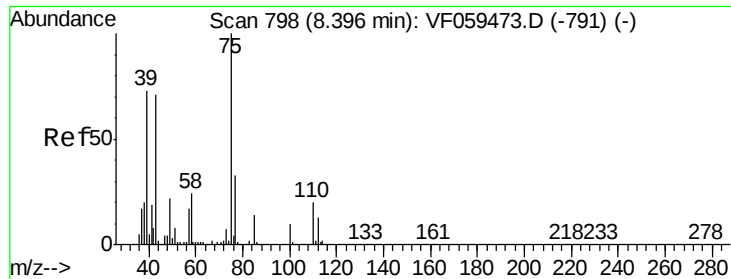
20000

10000

0

Time--> 7.60 7.70 7.80 7.90





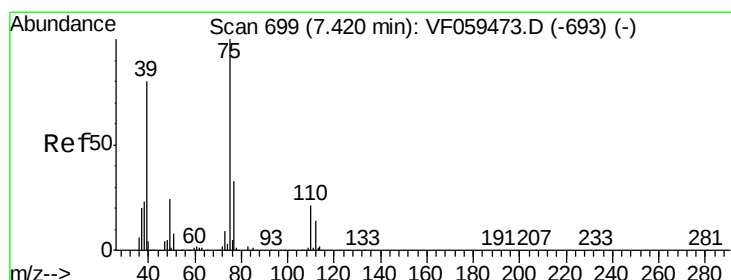
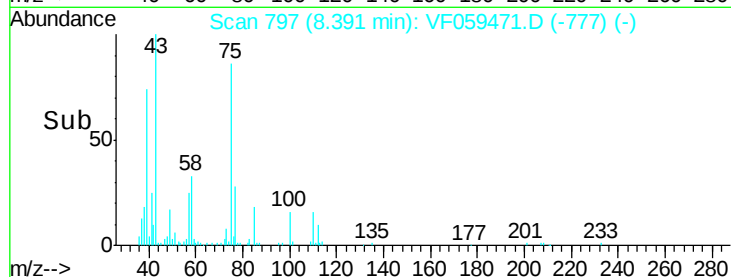
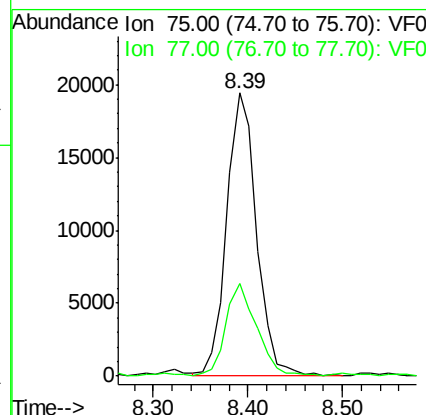
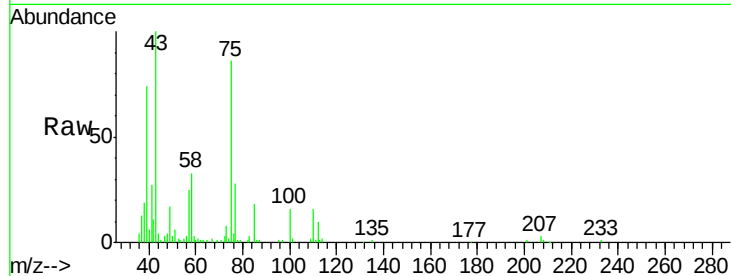
#53
 t-1,3-Dichloropropene
 Concen: 11.71 ug/l
 RT: 8.39 min Scan# 797
 Delta R.T. -0.00 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6

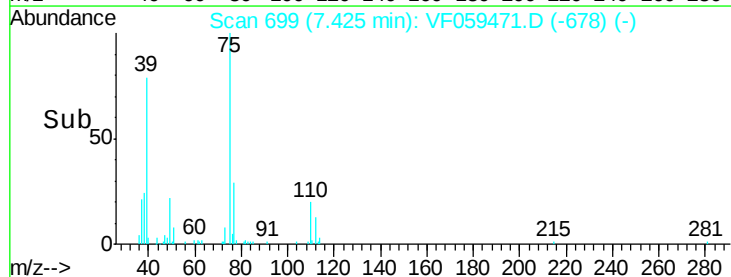
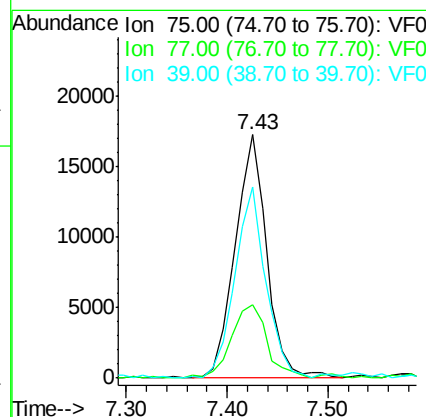
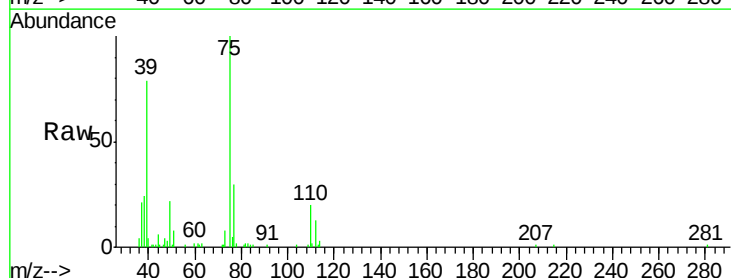
Manual Integrations
 APPROVED

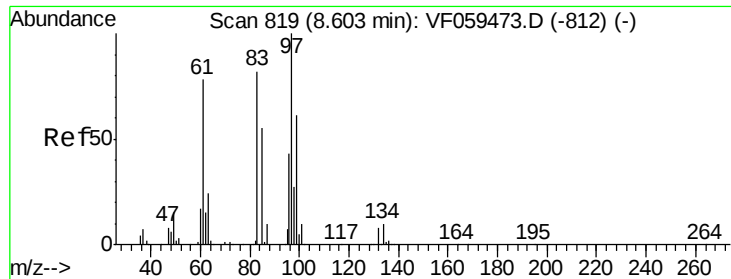
apatel
 7/9/2018 9:34:12 AM



#54
 cis-1,3-Dichloropropene
 Concen: 9.66 ug/l
 RT: 7.43 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.2	39.4
39	78.7	64.5	96.7





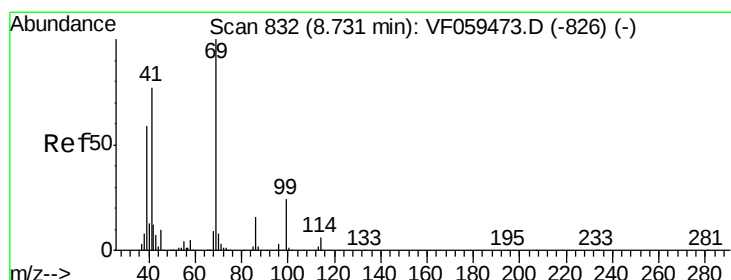
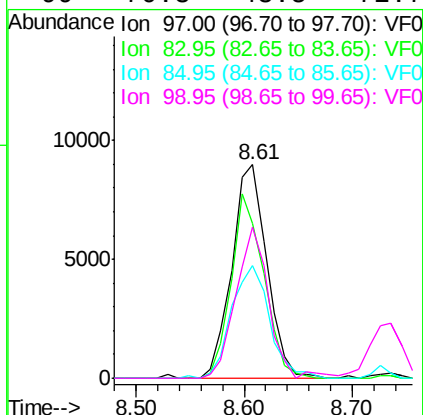
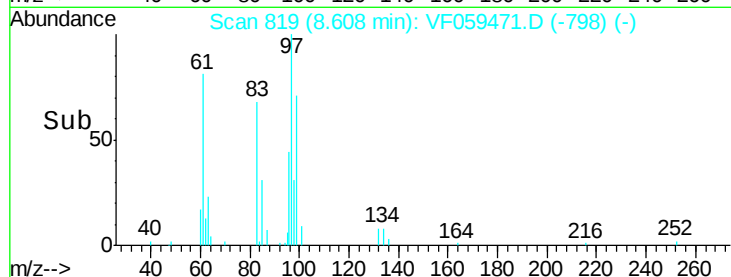
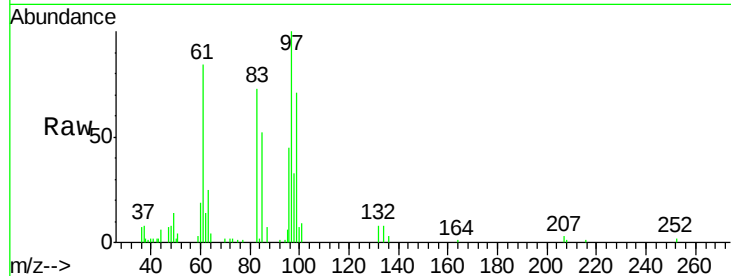
#55
1,1,2-Trichloroethane
Concen: 10.60 ug/l
RT: 8.61 min Scan# 819
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		20251		
83	72.5	65.7	98.5		
85	52.5	43.8	65.6		
99	70.8	48.5	72.7		

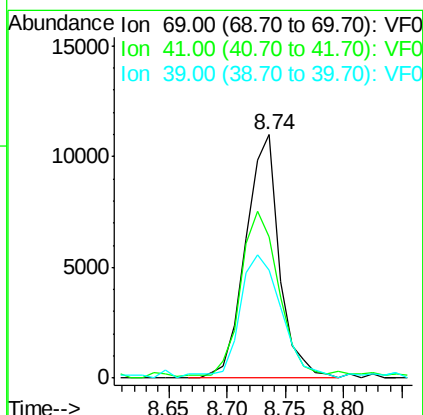
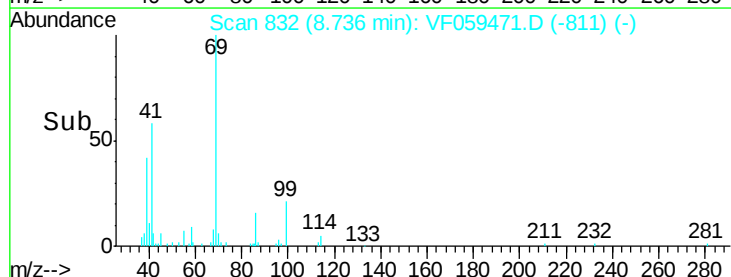
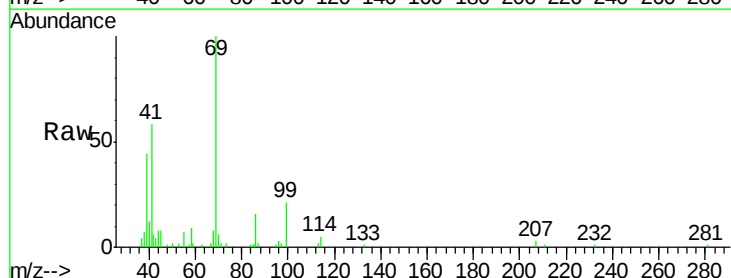
Manual Integrations
APPROVED

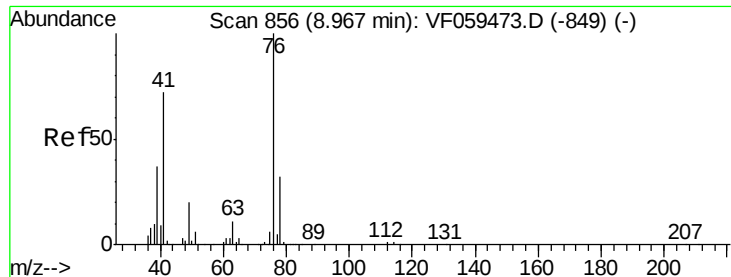
apatel
7/9/2018 9:34:12 AM



#56
Ethyl methacrylate
Concen: 9.50 ug/l
RT: 8.74 min Scan# 832
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		22101		
41	58.1	62.2	93.4#		
39	44.3	47.7	71.5#		





#57

1,3-Dichloropropane

Concen: 10.46 ug/l

RT: 8.96 min Scan# 855

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 76 Resp: 34299

Ion Ratio Lower Upper

76 100

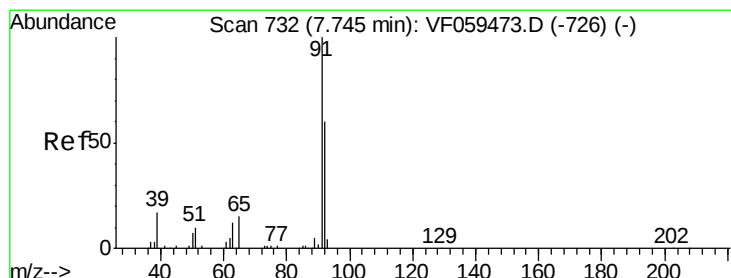
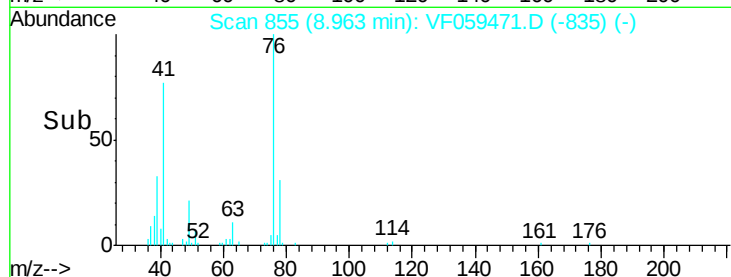
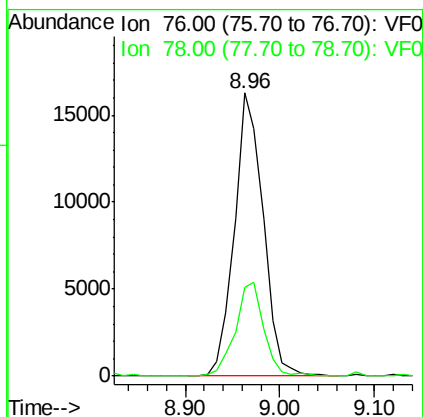
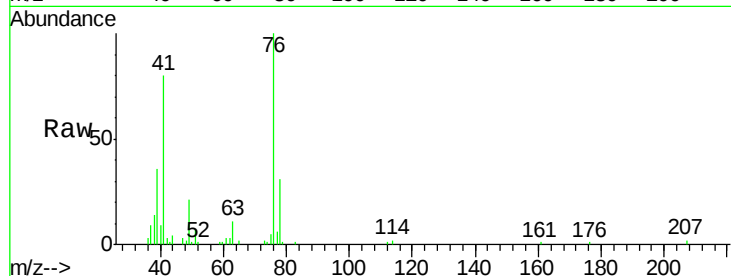
78 31.2 25.2 37.8

Manual Integrations

APPROVED

apatel

7/9/2018 9:34:12 AM



#58

2-Chloroethyl Vinyl ether

Concen: 62.13 ug/l

RT: 7.74 min Scan# 731

Delta R.T. -0.00 min

Lab File: VF059471.D

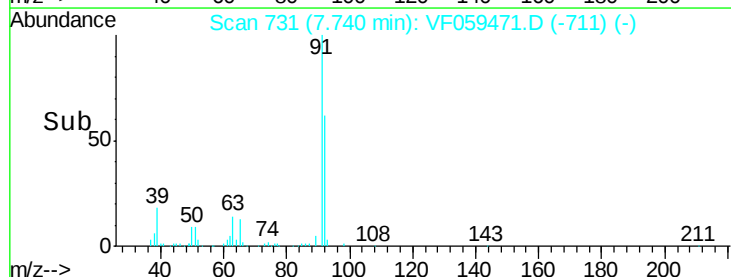
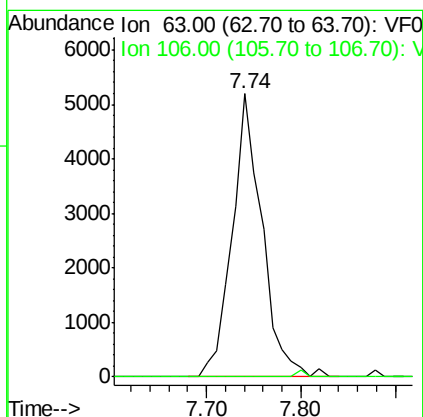
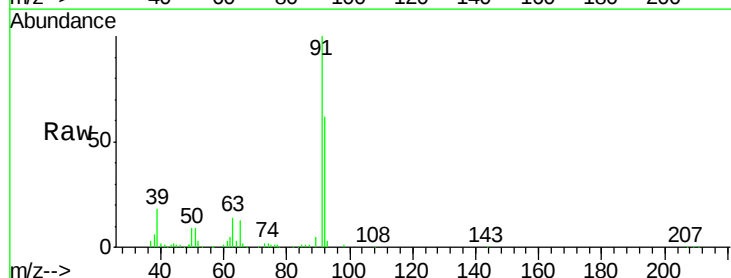
Acq: 7 Jul 2018 2:32

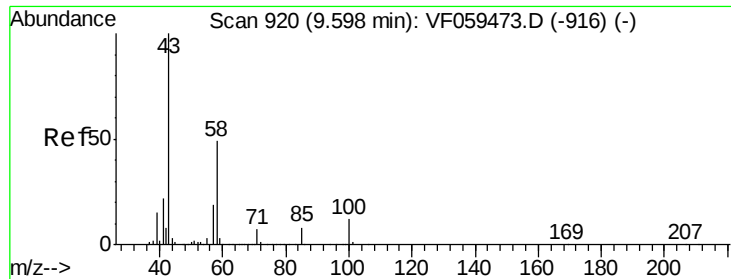
Tgt Ion: 63 Resp: 11399

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





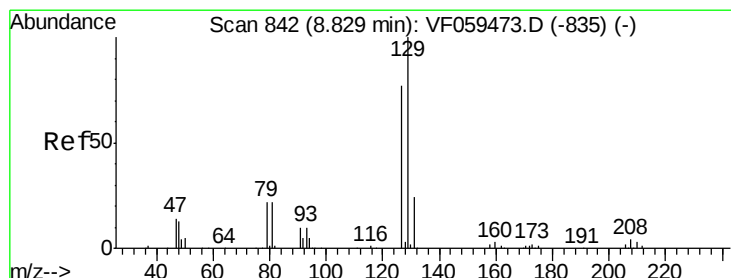
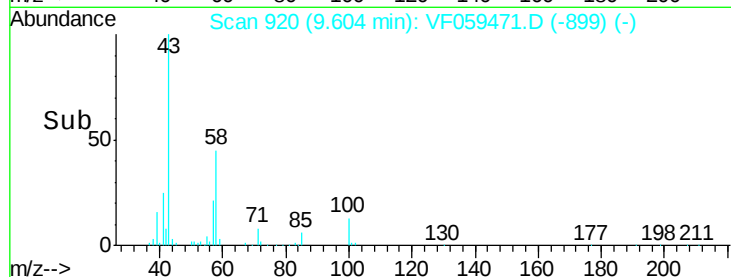
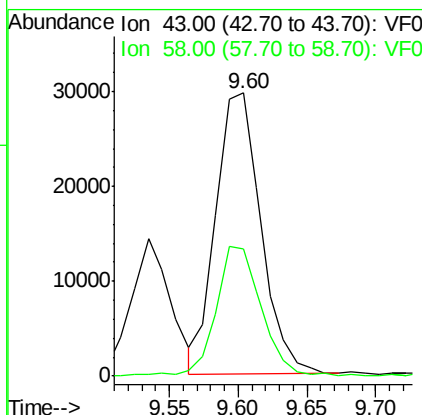
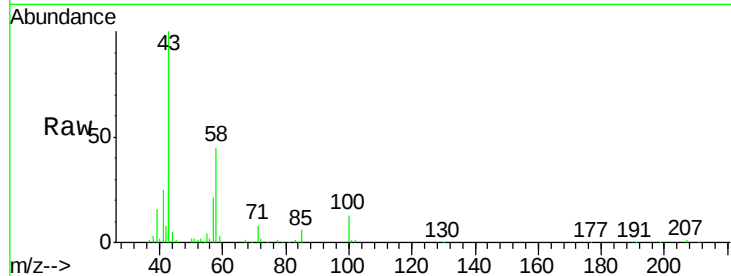
#59
2-Hexanone
Concen: 45.18 ug/l
RT: 9.60 min Scan# 920
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 43 Resp: 67359
Ion Ratio Lower Upper
43 100
58 45.1 22.4 67.2

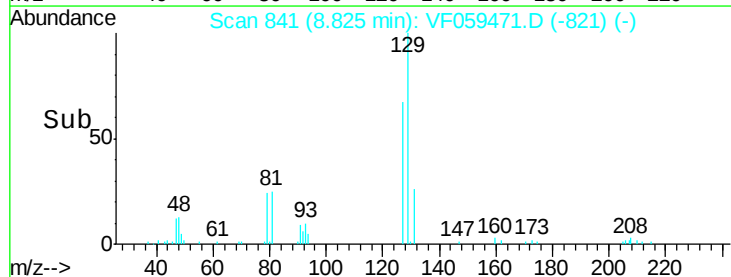
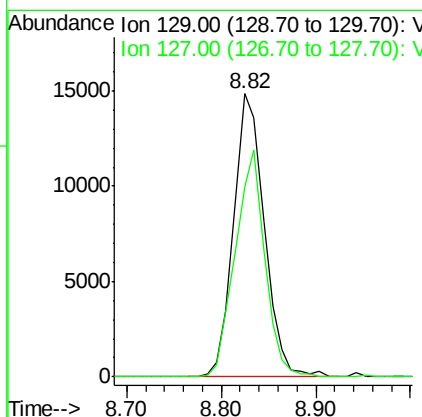
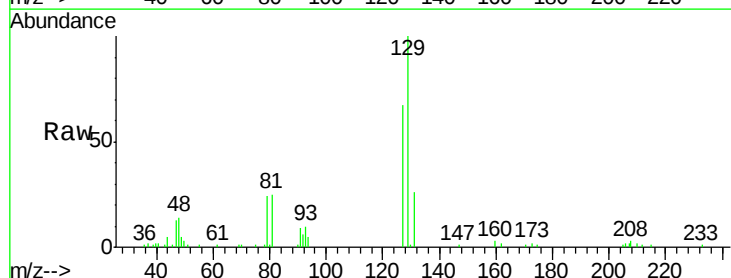
Manual Integrations
APPROVED

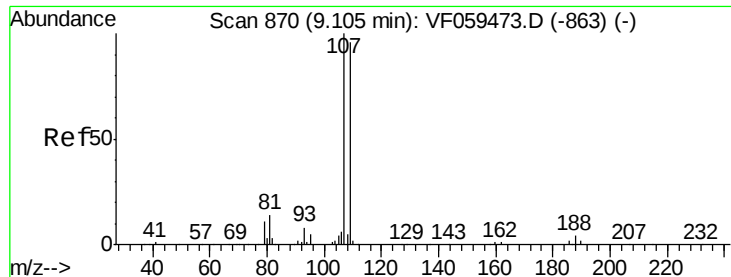
apatel
7/9/2018 9:34:12 AM



#60
Dibromochloromethane
Concen: 11.25 ug/l
RT: 8.82 min Scan# 841
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion: 129 Resp: 33507
Ion Ratio Lower Upper
129 100
127 67.2 38.8 116.3





#61

1,2-Dibromoethane

Concen: 11.16 ug/l

RT: 9.10 min Scan# 869

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:107 Resp: 25945

Ion Ratio Lower Upper

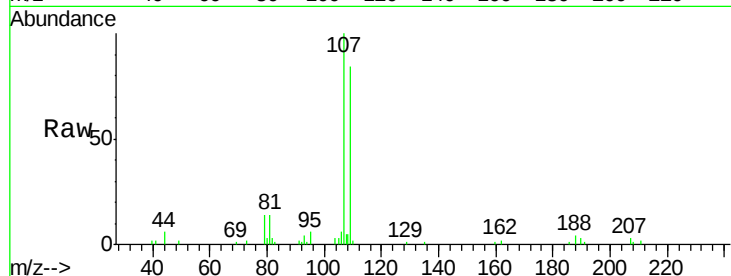
107 100

109 84.1 76.7 115.1

Manual Integrations
APPROVED

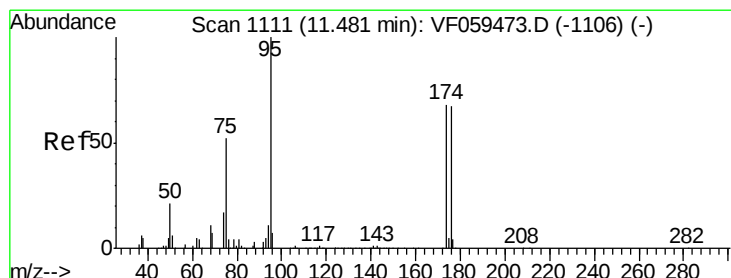
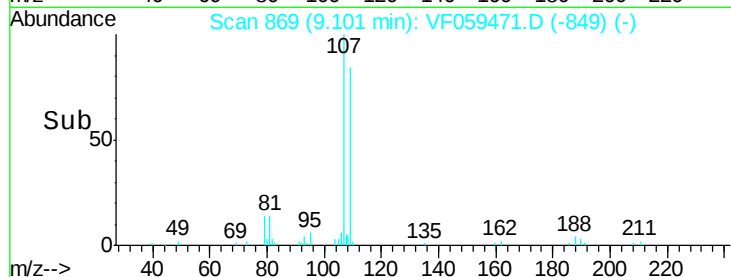
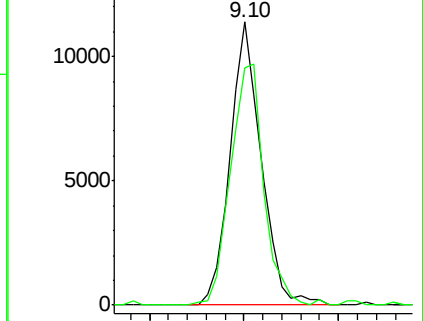
apatel

7/9/2018 9:34:12 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 12.06 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

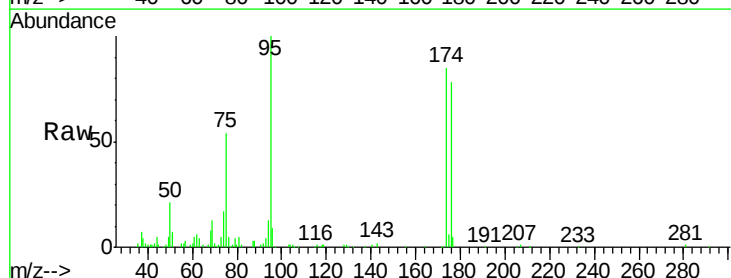
Tgt Ion: 95 Resp: 43253

Ion Ratio Lower Upper

95 100

174 84.7 0.0 137.0

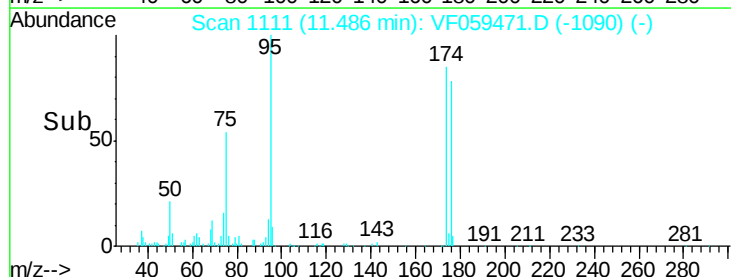
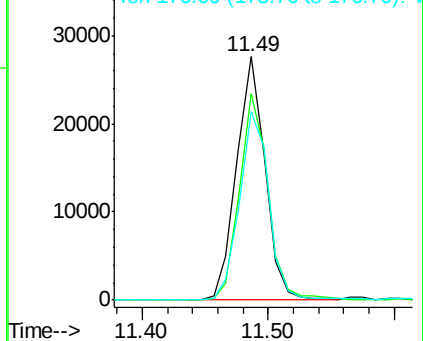
176 77.6 0.0 133.8

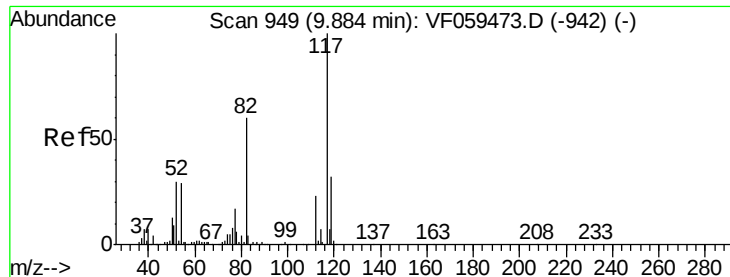


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





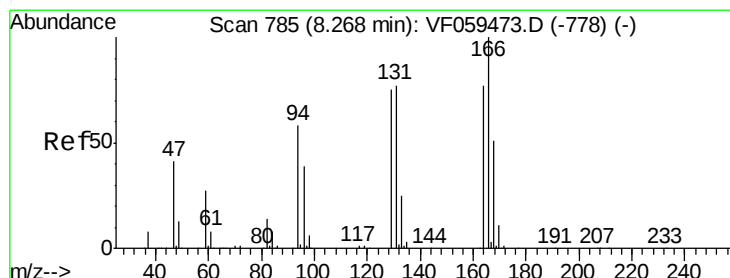
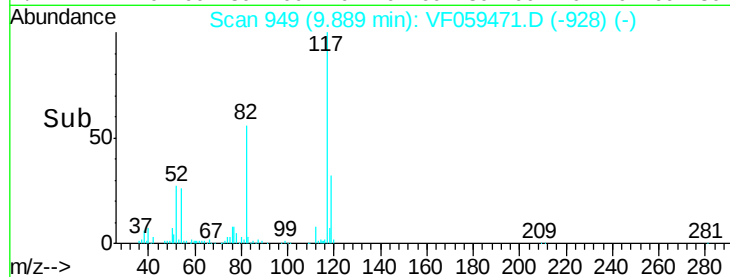
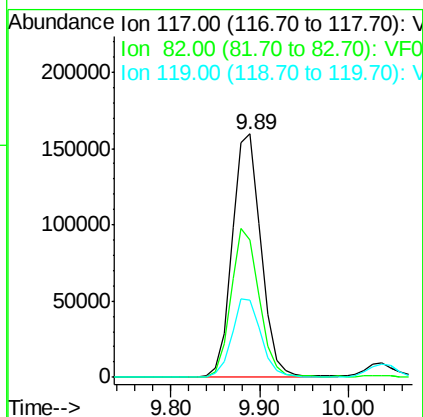
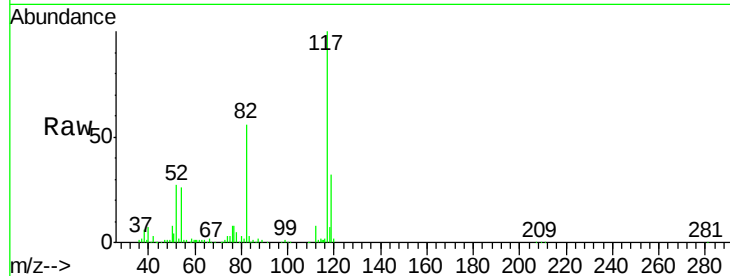
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.89 min Scan# 949
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
117	100	362527		
82	56.3		48.2	72.4
119	31.8		25.7	38.5

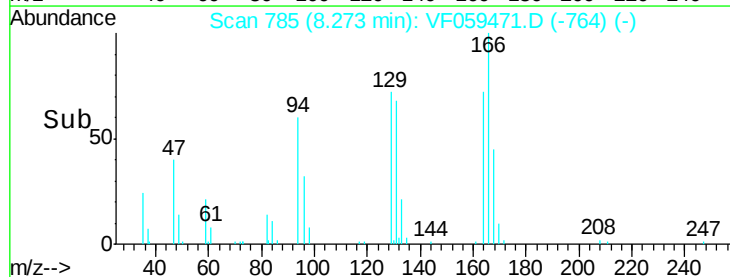
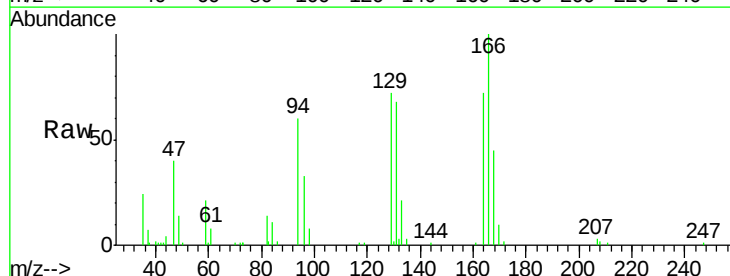
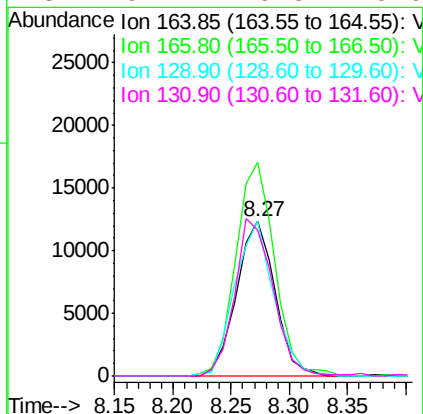
Manual Integrations
APPROVED

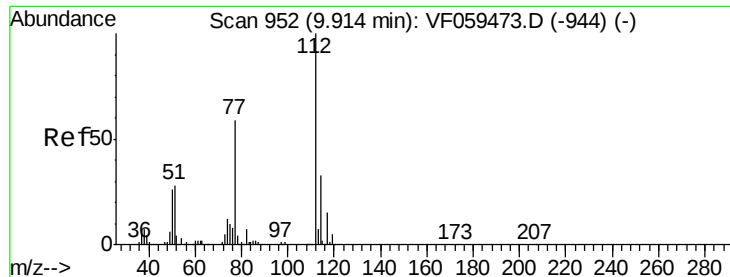
apatel
7/9/2018 9:34:12 AM



#64
Tetrachloroethene
Concen: 11.36 ug/l
RT: 8.27 min Scan# 785
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	28265		
166	138.1		103.5	155.3
129	99.8		77.6	116.4
131	94.1		79.8	119.6





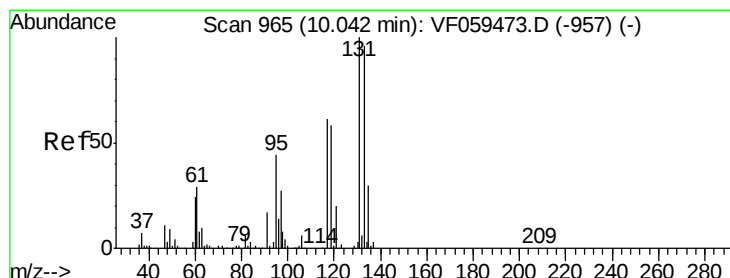
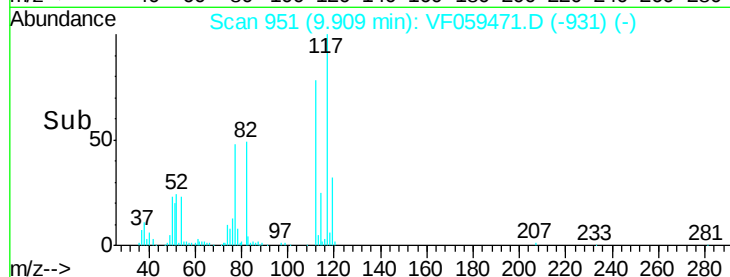
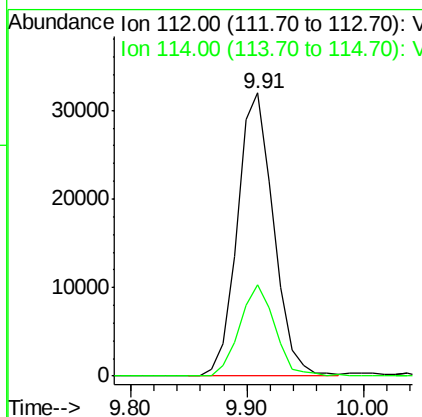
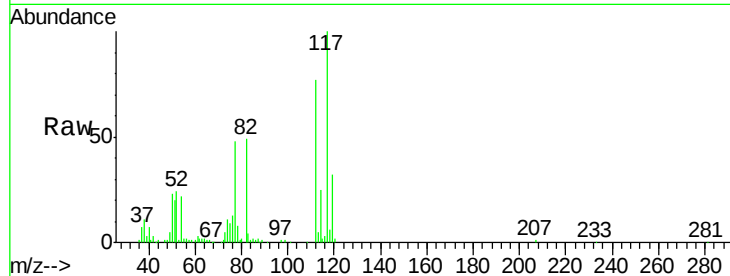
#65
Chlorobenzene
Concen: 10.00 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	26.2	39.2

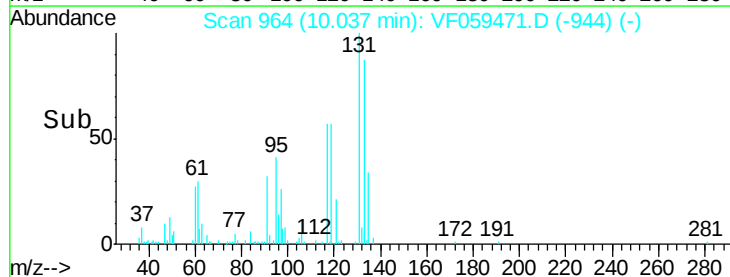
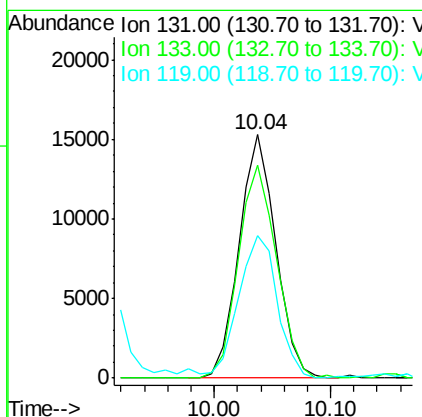
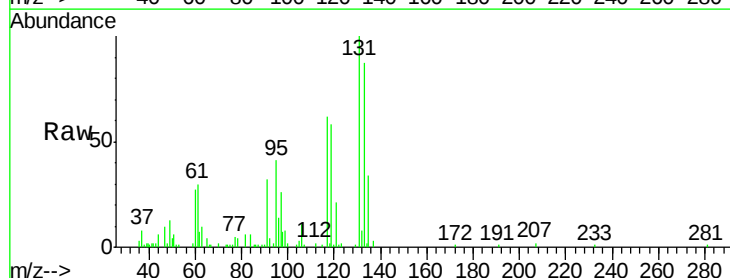
Manual Integrations
APPROVED

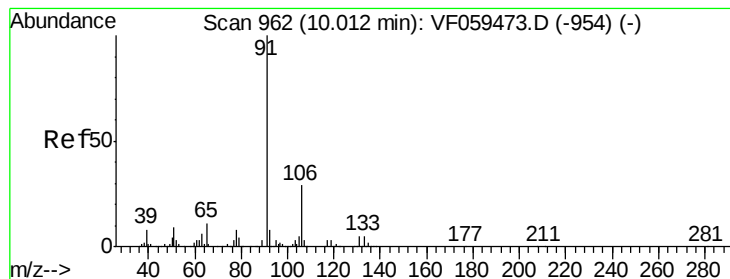
apatel
7/9/2018 9:34:12 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 11.12 ug/l
RT: 10.04 min Scan# 964
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
131	100		
133	87.3	48.1	144.3
119	58.5	29.3	87.8





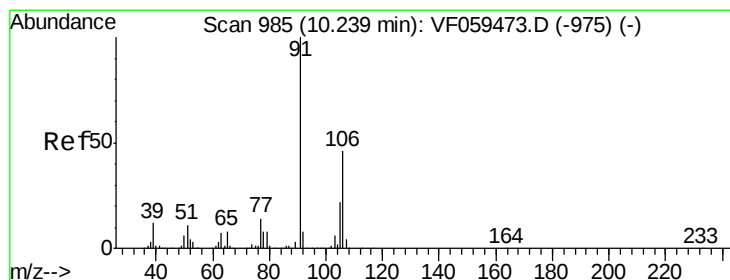
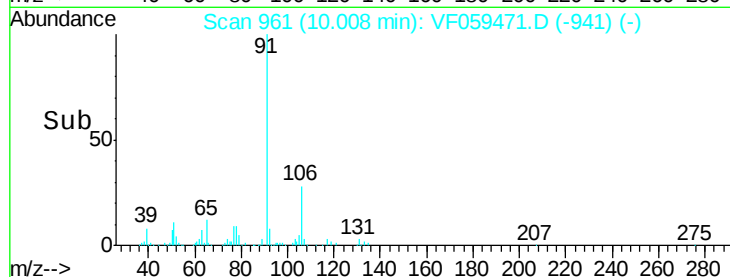
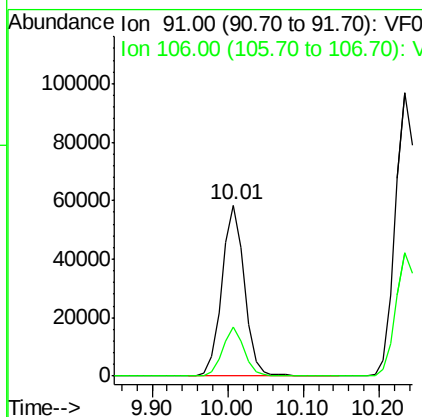
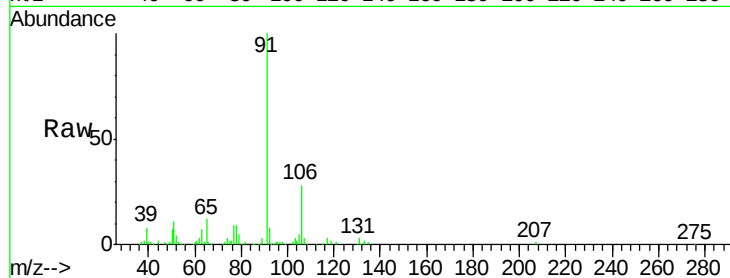
#67
Ethyl Benzene
Concen: 10.36 ug/l
RT: 10.01 min Scan# 961
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.0	34.6

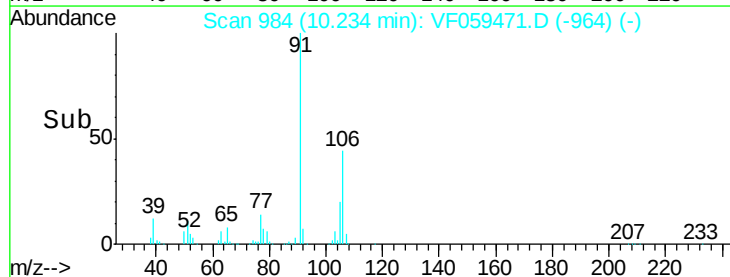
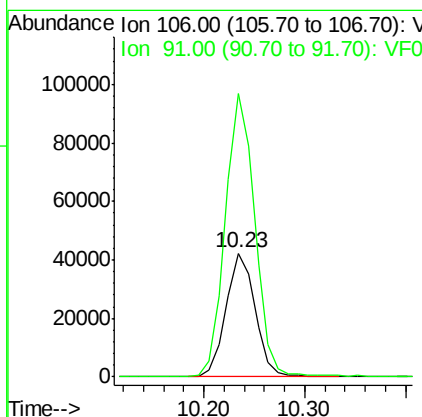
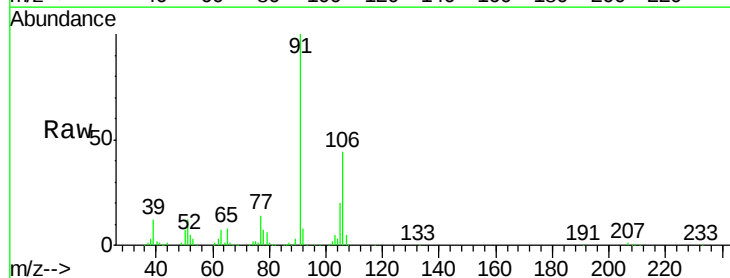
Manual Integrations
APPROVED

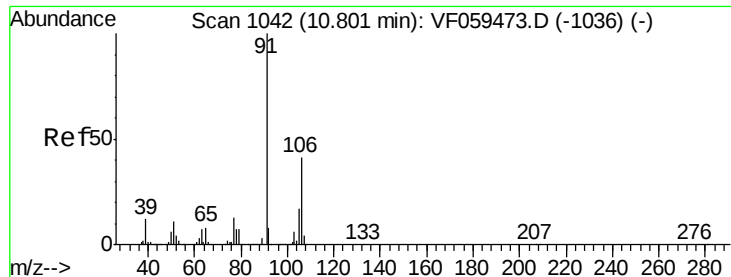
apatel
7/9/2018 9:34:12 AM



#68
m/p-Xylenes
Concen: 20.73 ug/l
RT: 10.23 min Scan# 984
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
106	100		
91	228.8	173.5	260.3





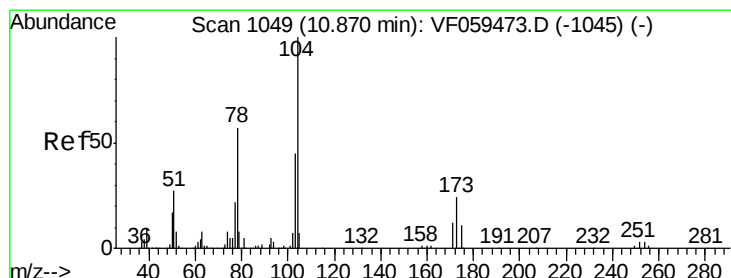
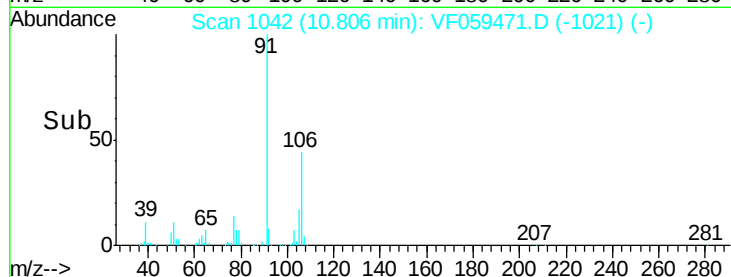
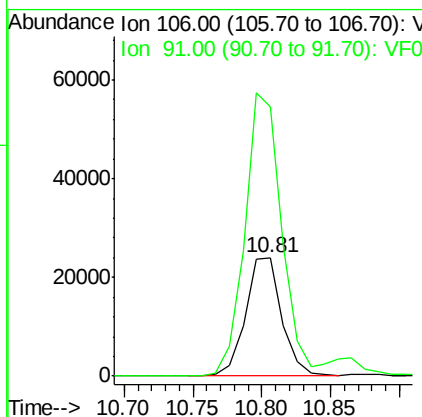
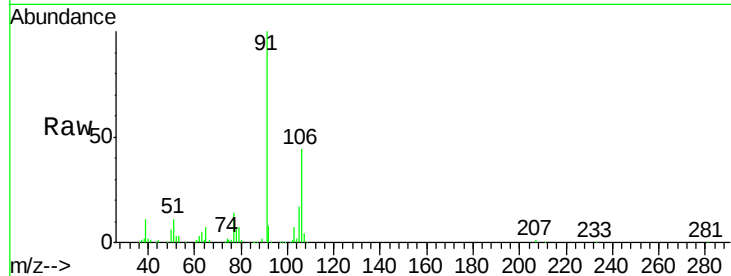
#69
o-Xylene
Concen: 9.57 ug/l
RT: 10.81 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
106	100		
91	227.7	121.8	365.3

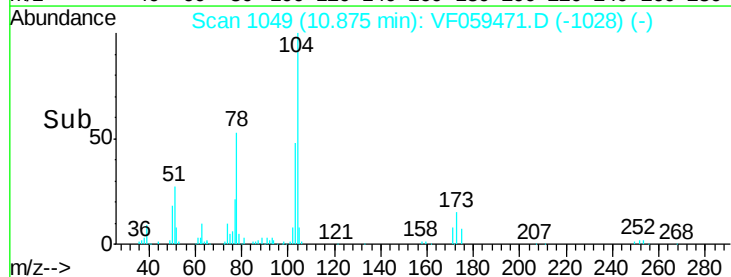
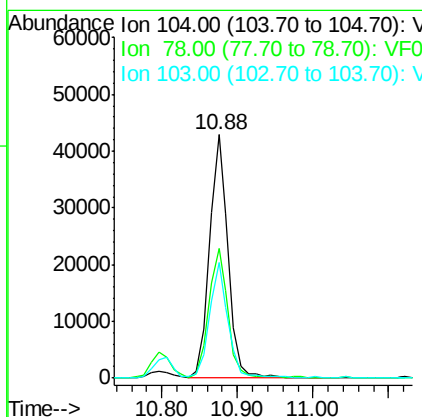
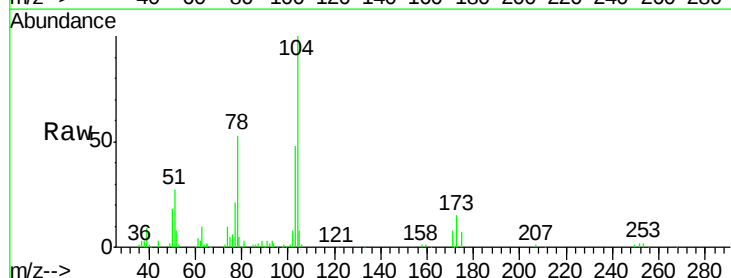
Manual Integrations
APPROVED

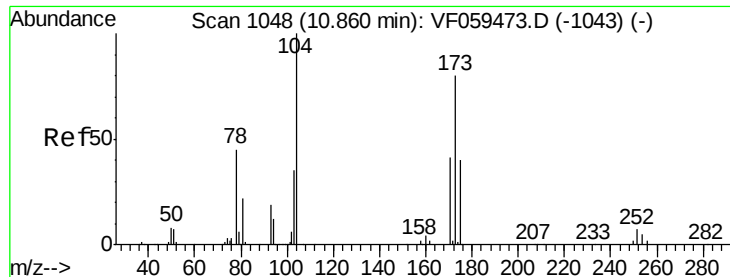
apatel
7/9/2018 9:34:12 AM



#70
Styrene
Concen: 10.52 ug/l
RT: 10.88 min Scan# 1049
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
104	100		
78	53.5	46.2	69.2
103	47.6	36.8	55.2





#71

Bromoform

Concen: 10.55 ug/l

RT: 10.87 min Scan# 1048

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

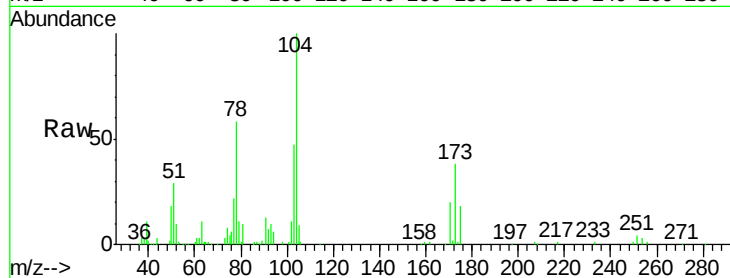
ClientSampleId :

VSTDIC010

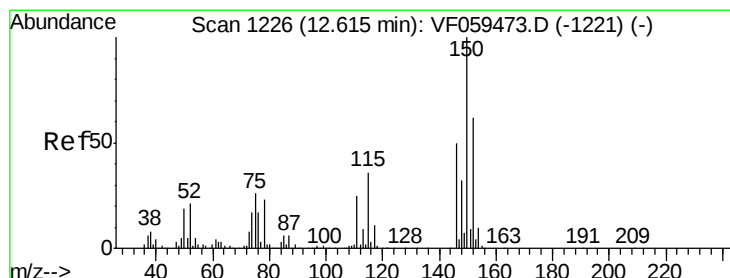
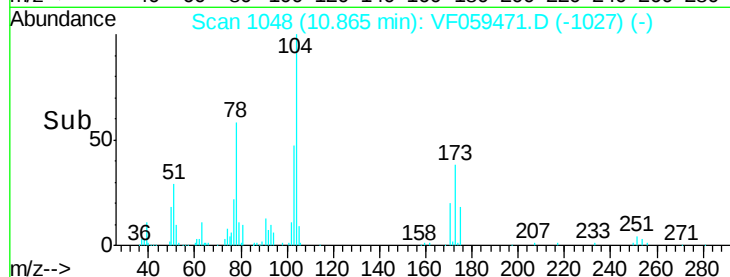
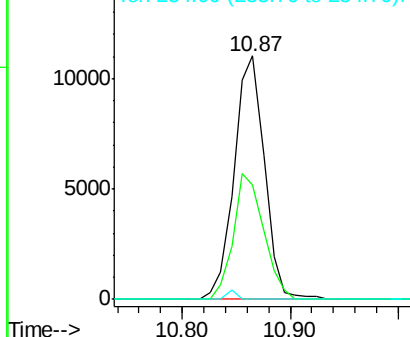
Tot Ion:	173	Resp:	21521
Ion Ratio	Lower	Upper	
173	100		
175	47.1	24.9	74.8
254	0.0	0.0	0.0

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.61 min Scan# 1225

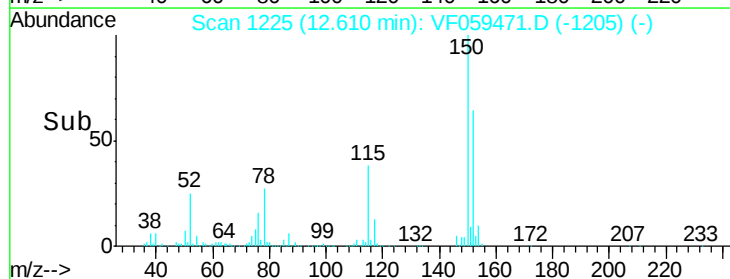
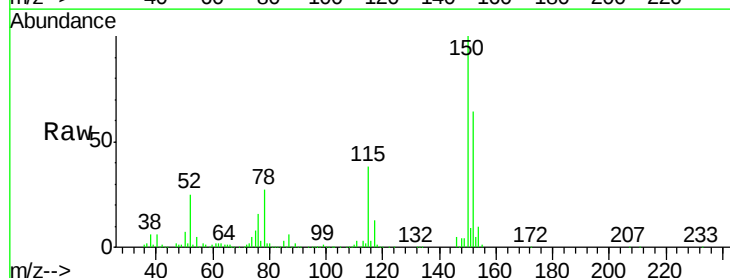
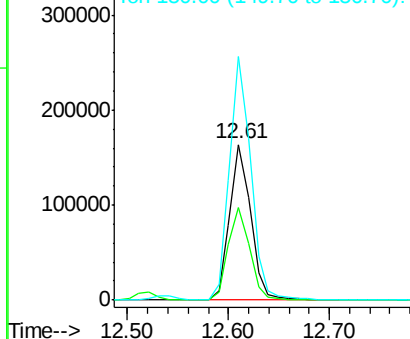
Delta R.T. -0.00 min

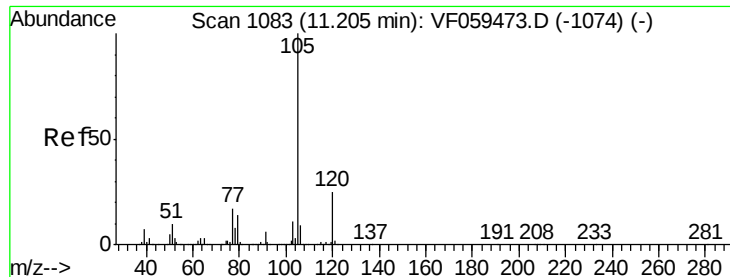
Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion:	152	Resp:	238362
Ion Ratio	Lower	Upper	
152	100		
115	59.4	28.7	86.3
150	156.7	0.0	323.8

Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 10.13 ug/l

RT: 11.20 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 143778

Ion Ratio Lower Upper

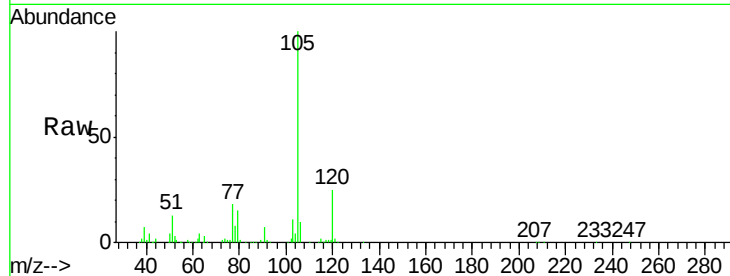
105 100

120 25.3 12.4 37.2

Manual Integrations
APPROVED

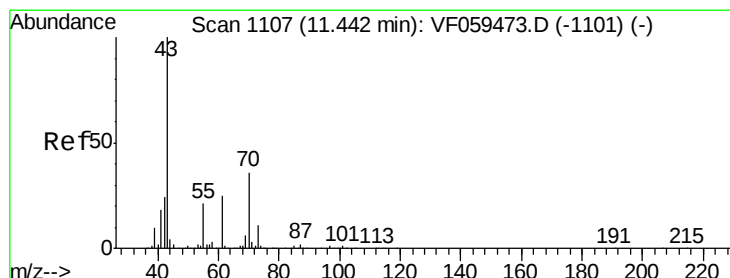
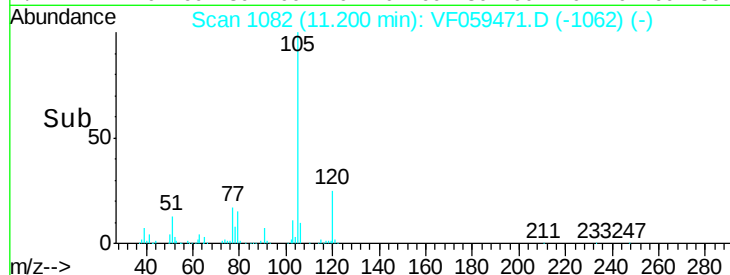
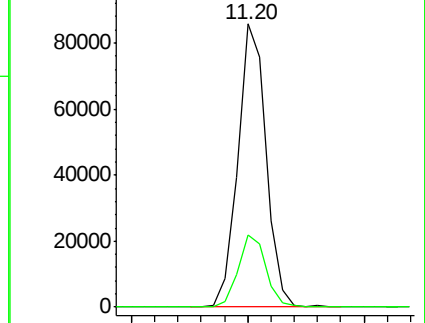
apatel

7/9/2018 9:34:12 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 8.17 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion: 43 Resp: 40956

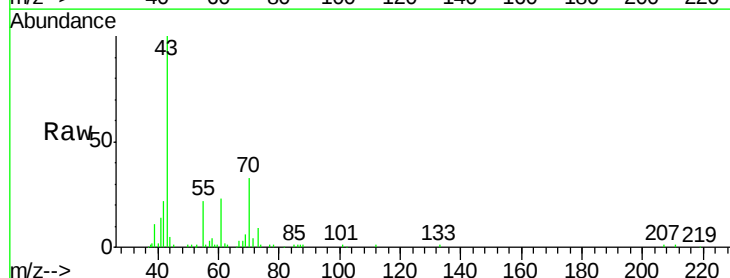
Ion Ratio Lower Upper

43 100

70 33.3 28.7 43.1

55 21.8 16.6 24.8

61 23.2 20.1 30.1

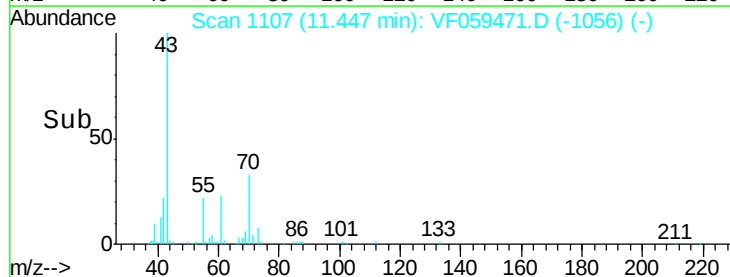
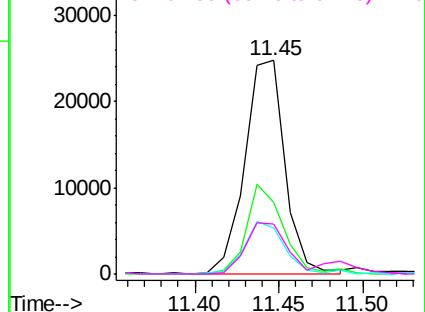


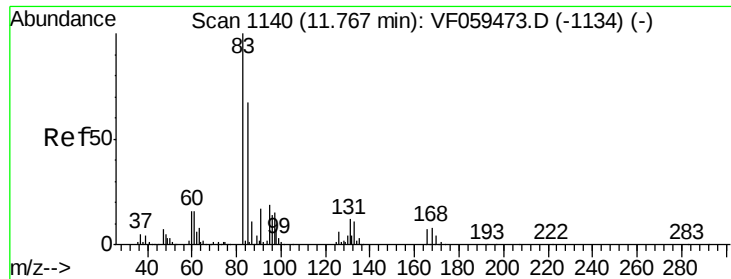
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 9.39 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

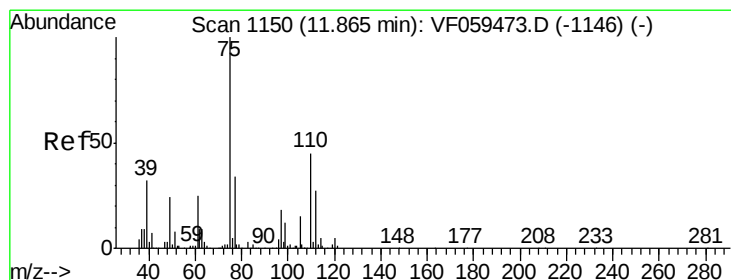
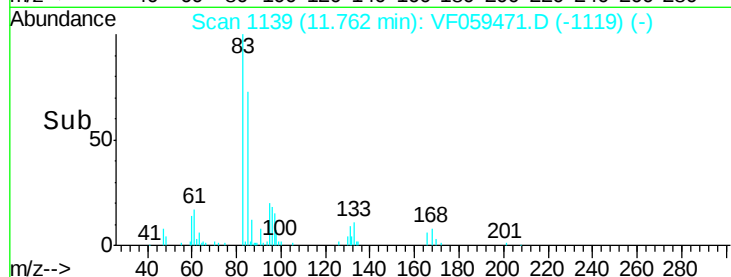
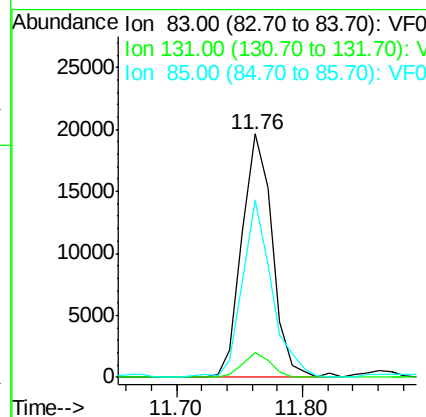
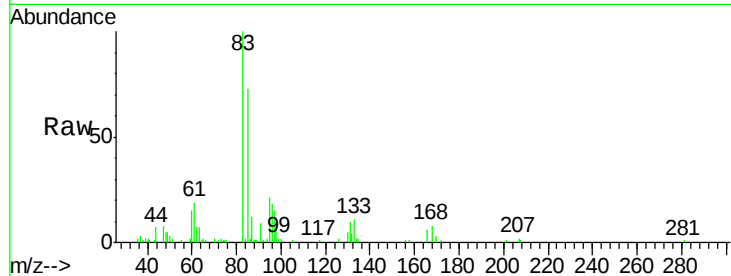
ClientSampleId :

VSTDIC010

Tot Ion	83	Resp	32805
Ion Ratio	100	Lower	Upper
83	100		
131	9.9	6.0	18.0
85	72.6	33.7	101.1

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#76

1,2,3-Trichloropropane

Concen: 10.78 ug/l

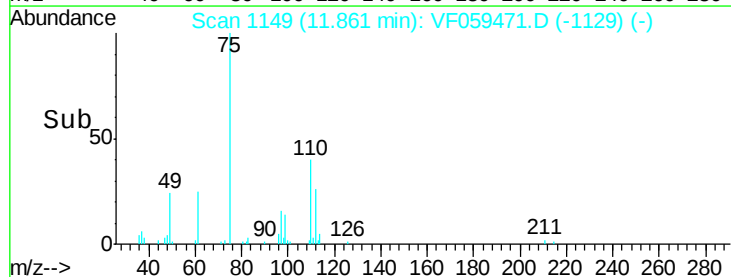
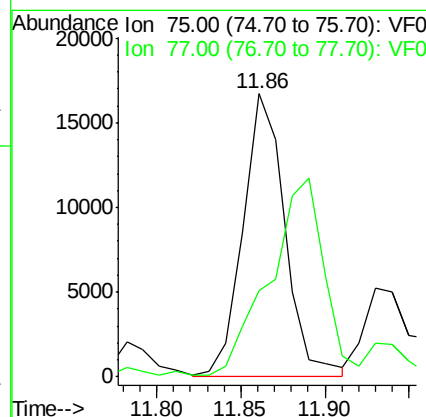
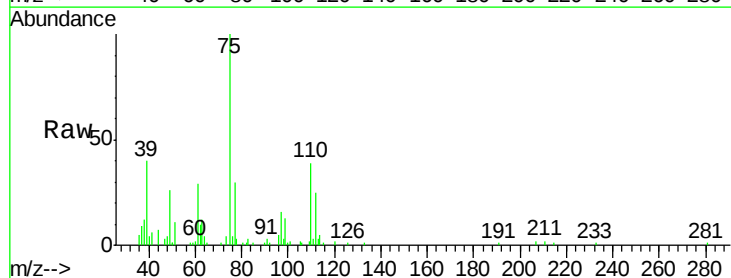
RT: 11.86 min Scan# 1149

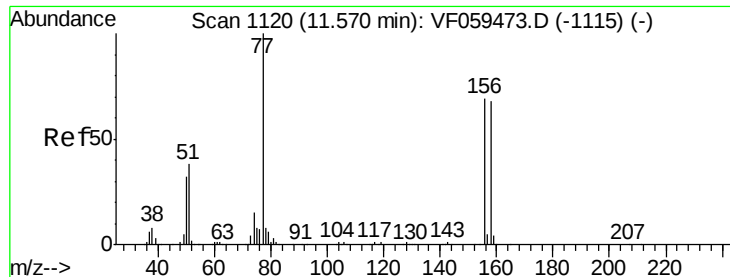
Delta R.T. -0.00 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Tgt Ion	75	Resp	28893
Ion Ratio	100	Lower	Upper
75	100		
77	30.3	16.9	50.6





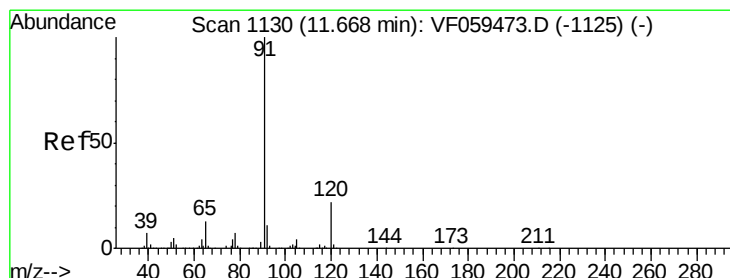
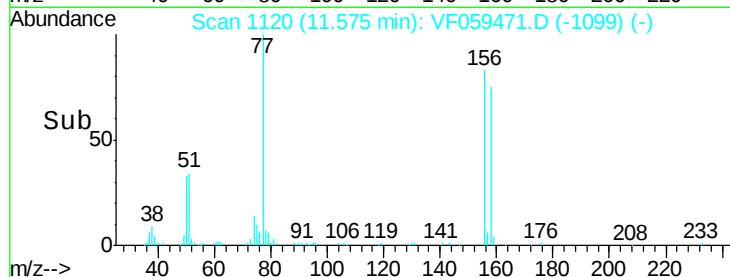
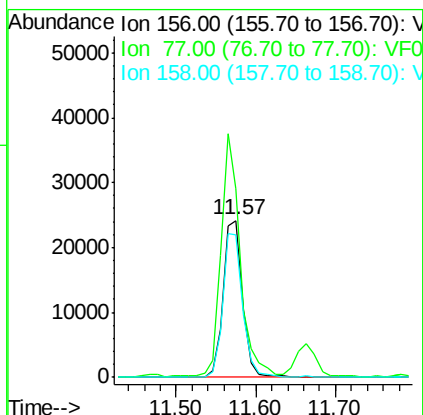
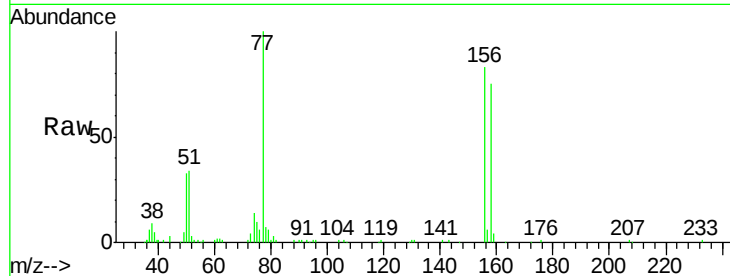
#77
Bromobenzene
Concen: 10.64 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
156	100		
77	120.6	72.4	217.2
158	90.8	49.5	148.3

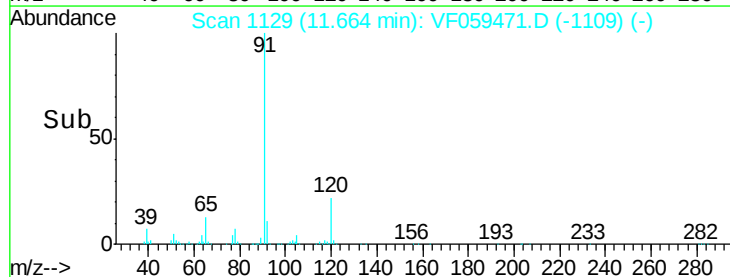
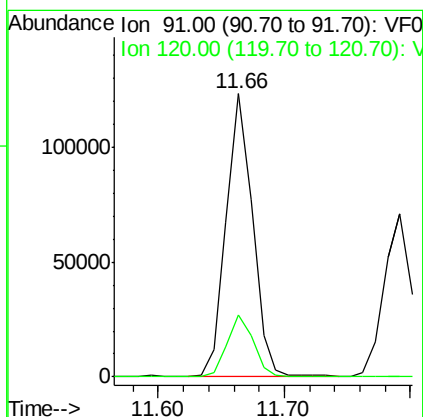
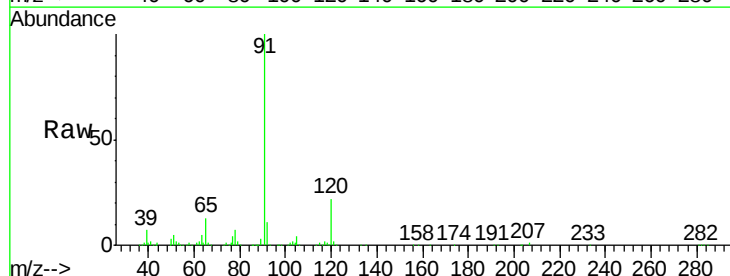
Manual Integrations
APPROVED

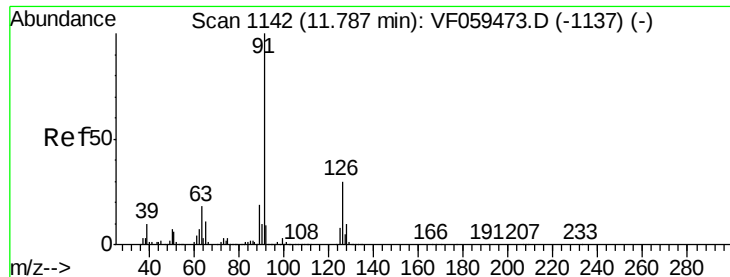
apatel
7/9/2018 9:34:12 AM



#78
n-propylbenzene
Concen: 10.51 ug/l
RT: 11.66 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.1





#79

2-Chlorotoluene

Concen: 10.34 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VF059471.D

Acq: 7 Jul 2018 2:32

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 107988

Ion Ratio Lower Upper

91 100

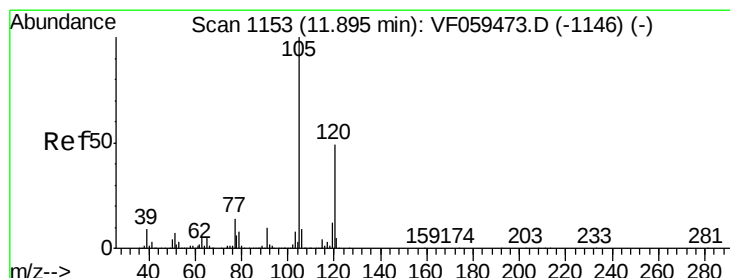
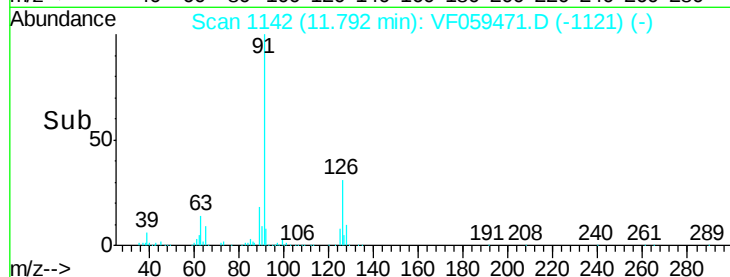
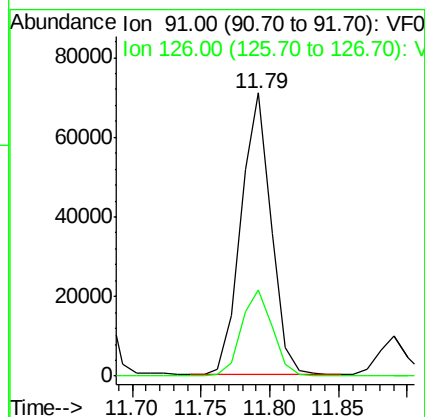
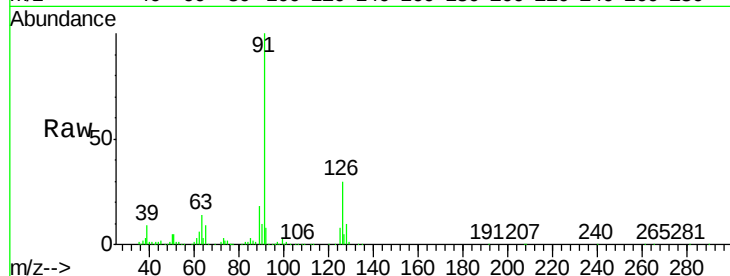
126 30.4 15.2 45.5

Manual Integrations

APPROVED

apatel

7/9/2018 9:34:12 AM



#80

1,3,5-Trimethylbenzene

Concen: 10.15 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF059471.D

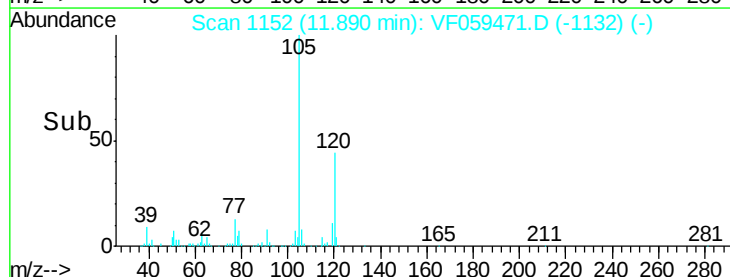
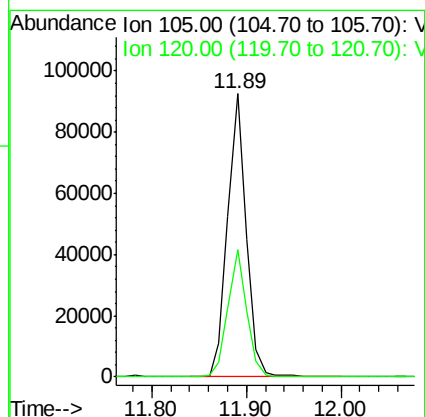
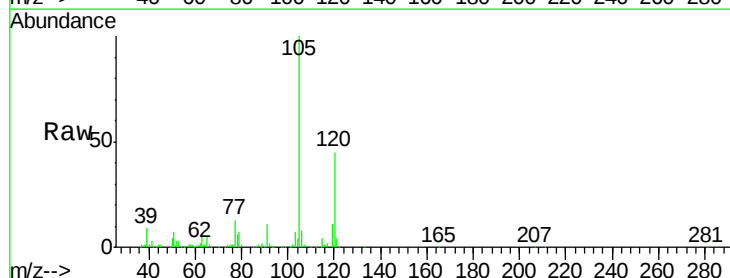
Acq: 7 Jul 2018 2:32

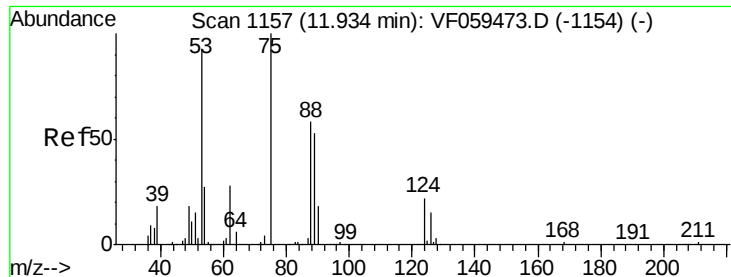
Tgt Ion: 105 Resp: 126969

Ion Ratio Lower Upper

105 100

120 45.0 24.4 73.2





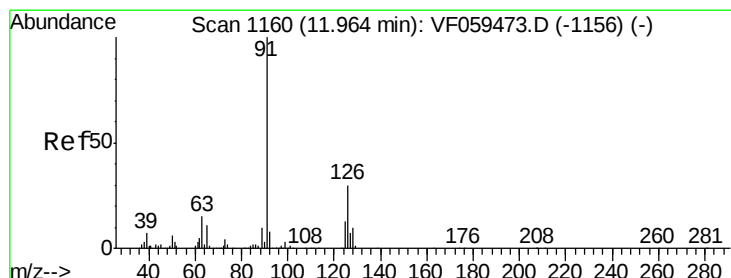
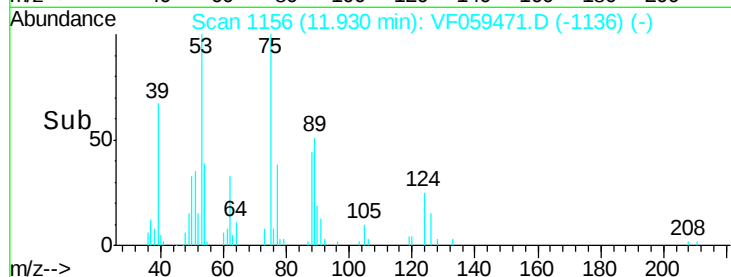
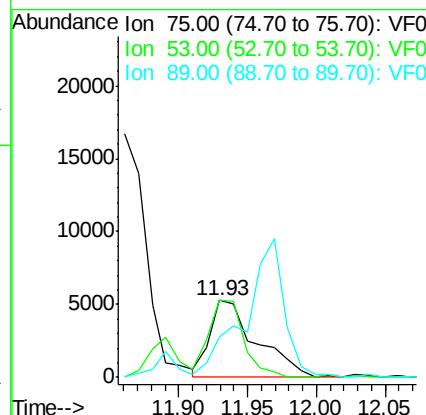
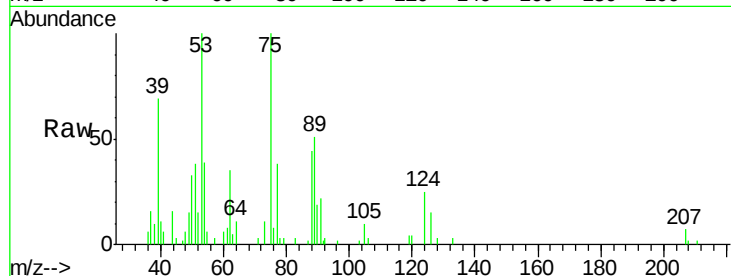
#81
trans-1,4-Dichloro-2-butene
Concen: 7.97 ug/l
RT: 11.93 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.1	79.0	118.6
89	51.4	45.9	68.9

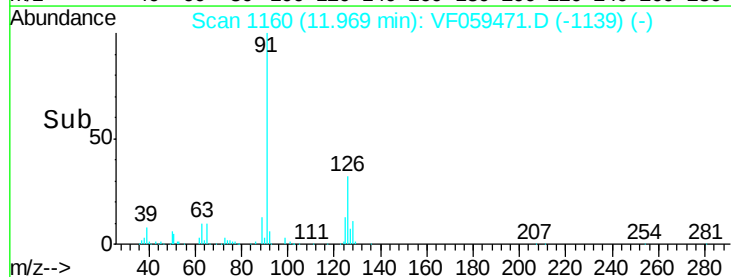
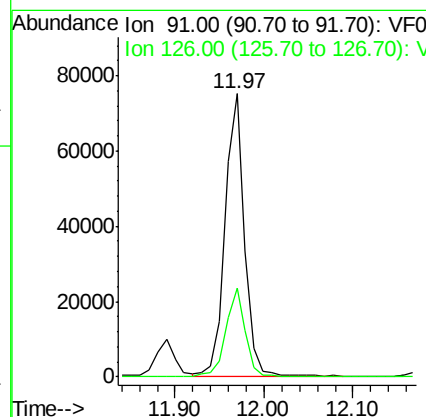
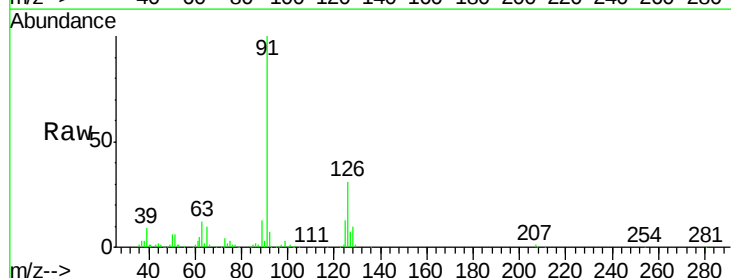
Manual Integrations
APPROVED

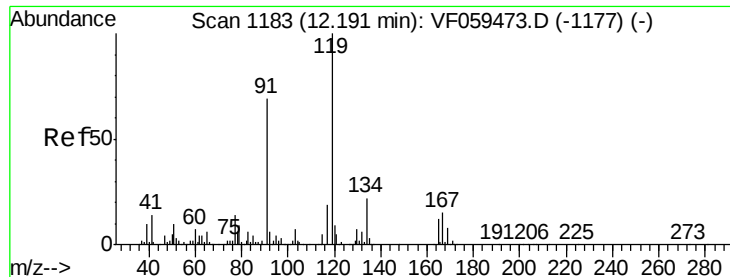
apatel
7/9/2018 9:34:12 AM



#82
4-Chlorotoluene
Concen: 10.50 ug/l
RT: 11.97 min Scan# 1160
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	14.9	44.5





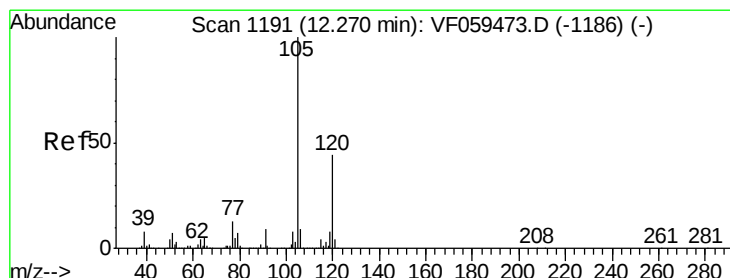
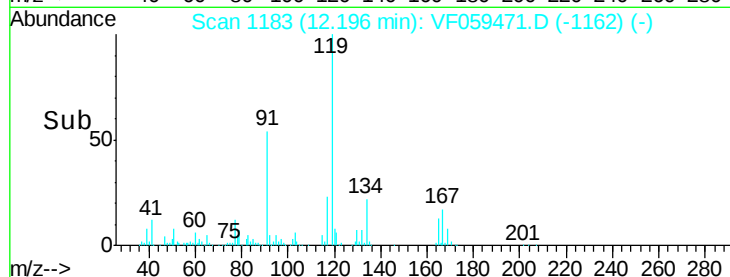
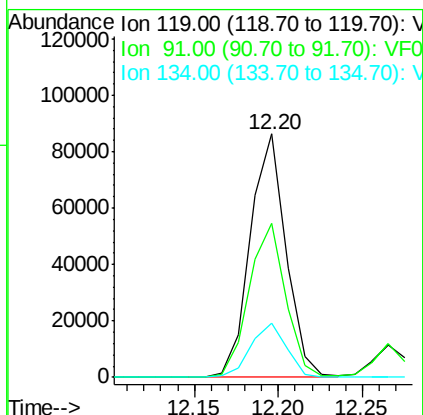
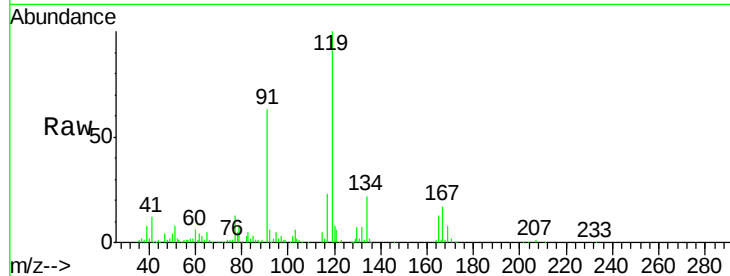
#83
tert-Butylbenzene
Concen: 10.31 ug/l
RT: 12.20 min Scan# 1183
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.0	34.4	103.3
134	22.1	10.8	32.4

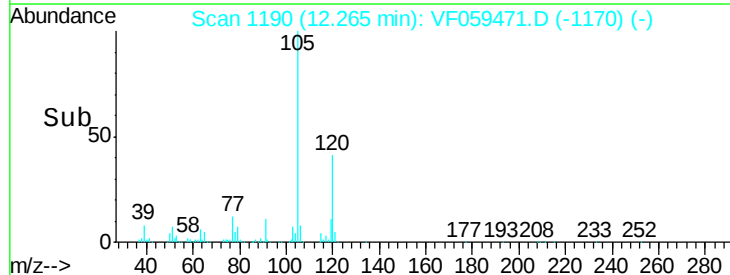
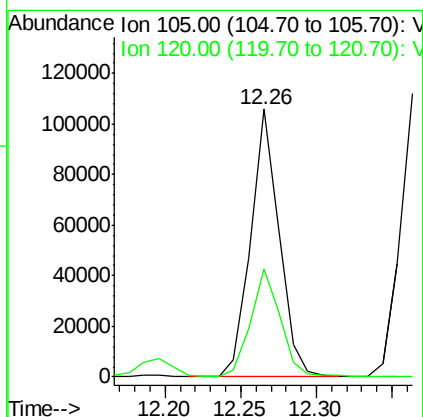
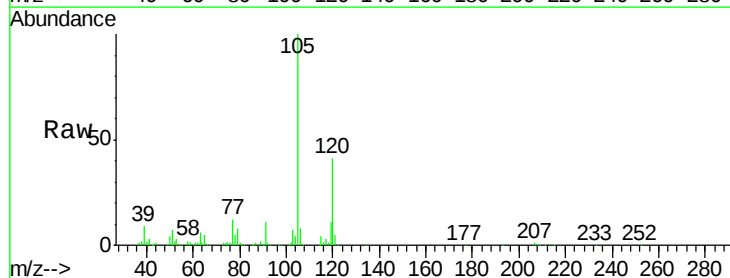
Manual Integrations
APPROVED

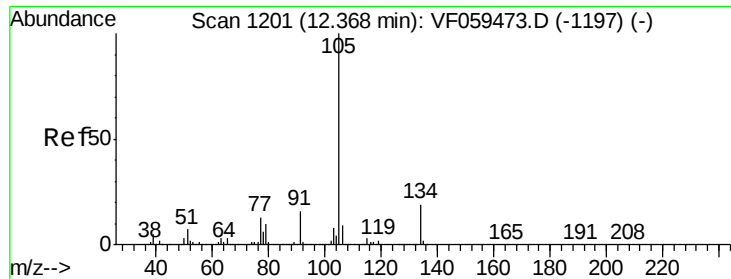
apatel
7/9/2018 9:34:12 AM



#84
1,2,4-Trimethylbenzene
Concen: 10.74 ug/l
RT: 12.26 min Scan# 1190
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.5	22.1	66.1





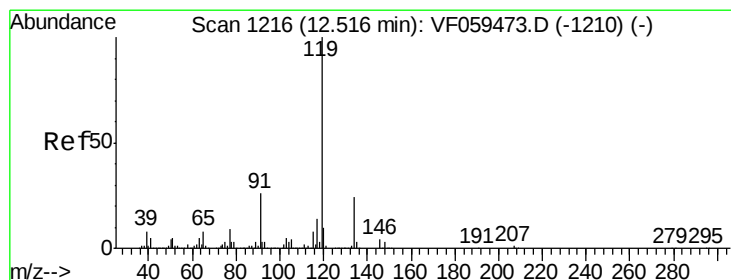
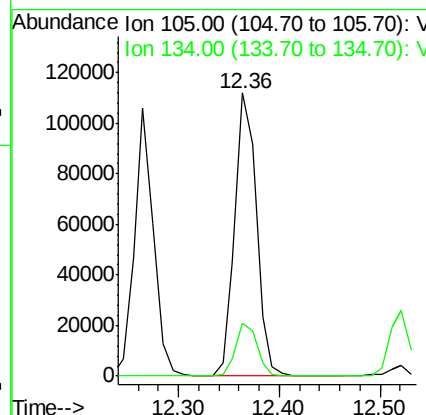
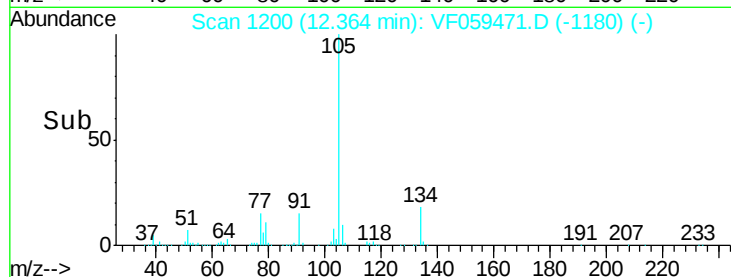
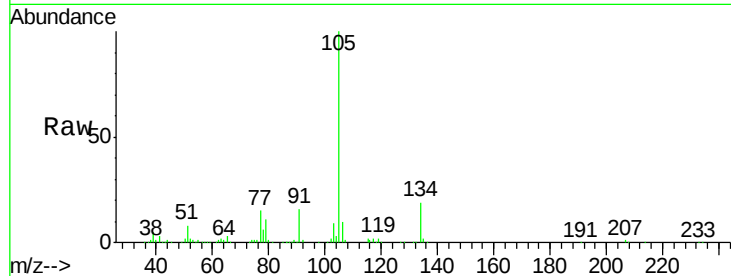
#85
 sec-Butylbenzene
 Concen: 10.20 ug/l
 RT: 12.36 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.6	28.6

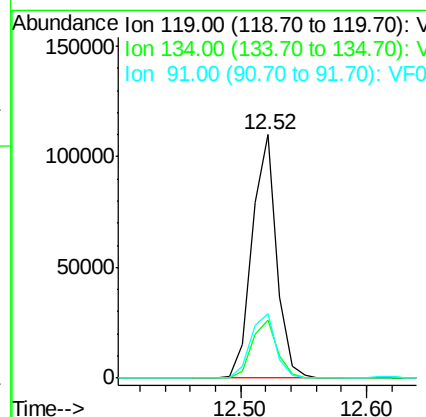
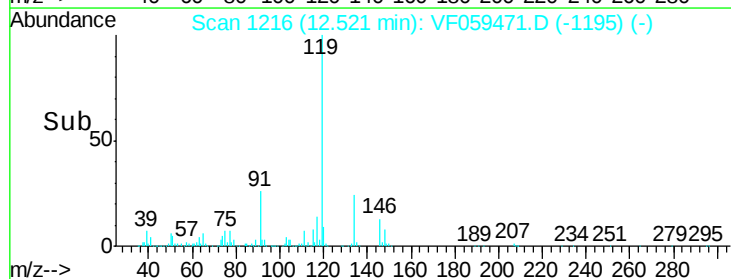
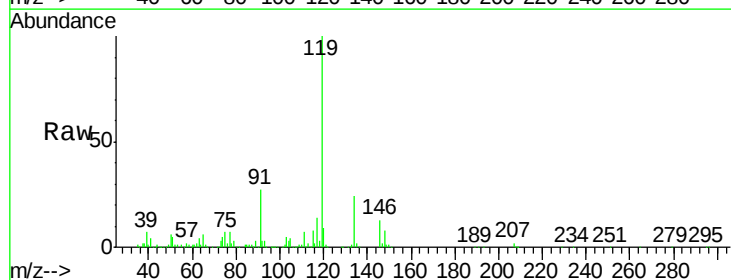
Manual Integrations
 APPROVED

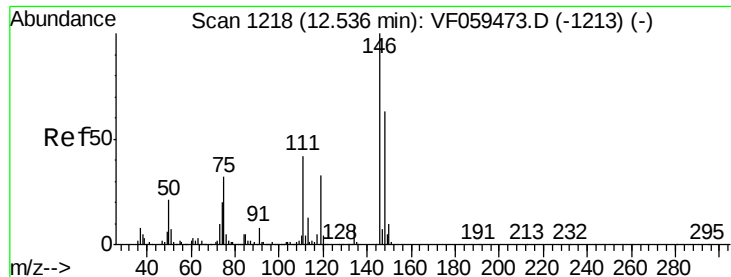
apatel
 7/9/2018 9:34:12 AM



#86
 p-Isopropyltoluene
 Concen: 10.63 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. 0.01 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.7	12.2	36.4
91	26.7	13.1	39.3





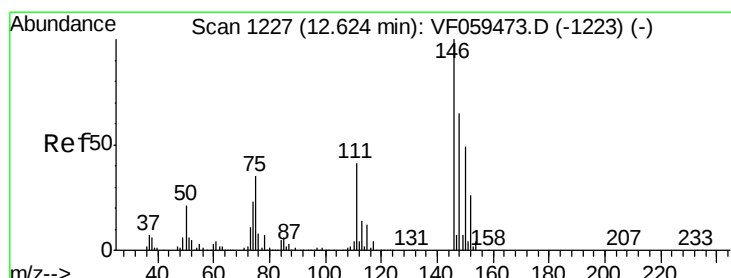
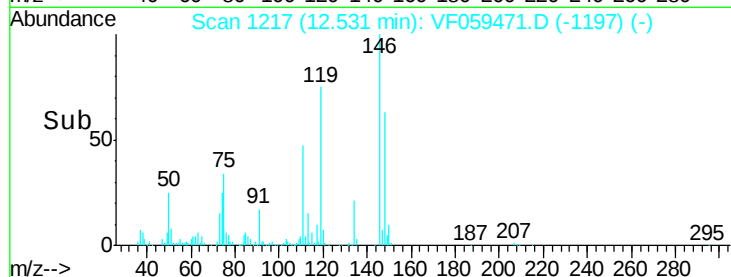
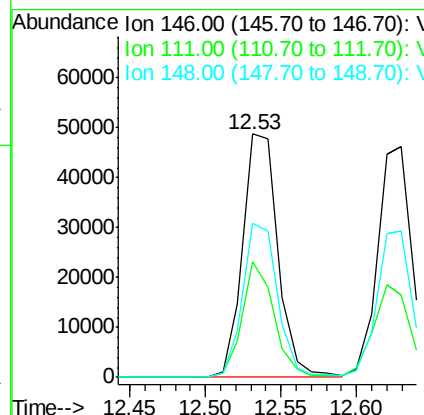
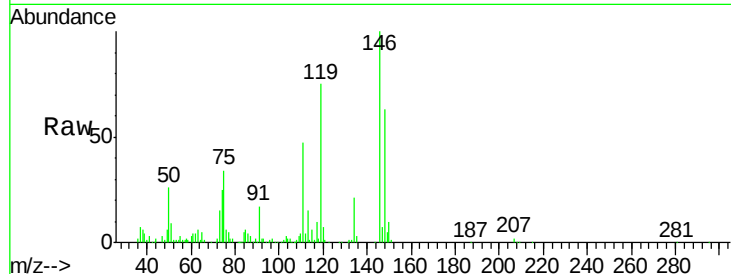
#87
 1,3-Dichlorobenzene
 Concen: 10.90 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.00 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	21.0	63.0
148	63.3	31.6	94.8

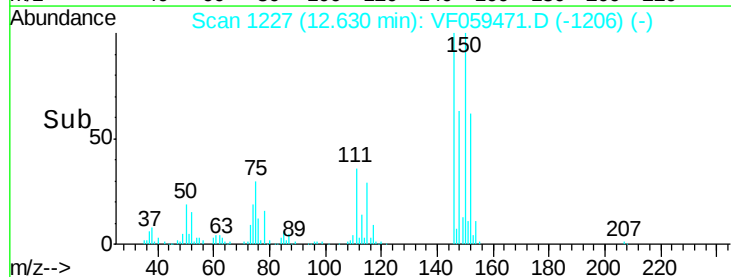
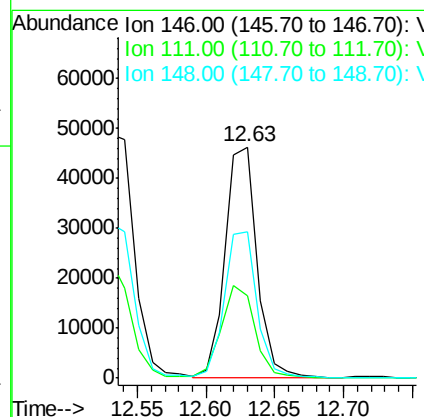
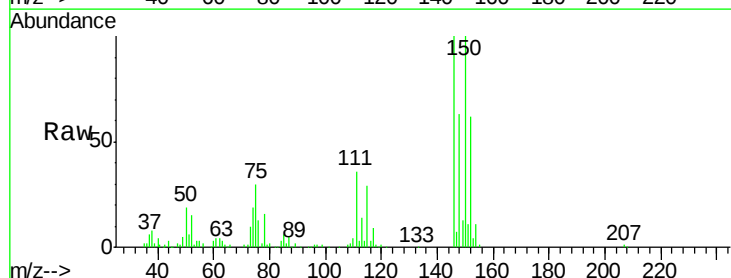
Manual Integrations
 APPROVED

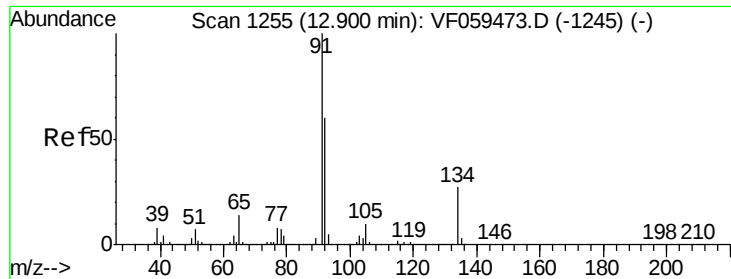
apatel
 7/9/2018 9:34:12 AM



#88
 1,4-Dichlorobenzene
 Concen: 10.51 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.6	20.8	62.2
148	63.2	32.6	97.8





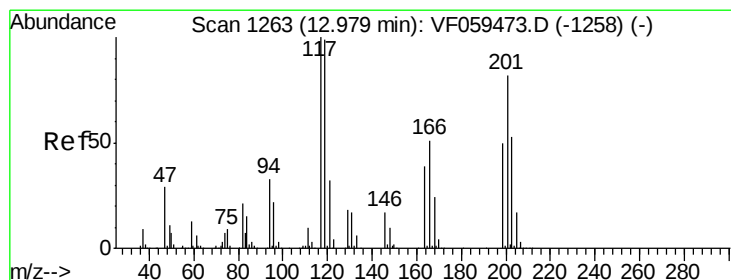
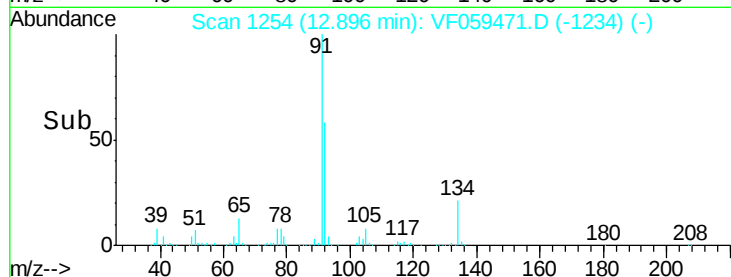
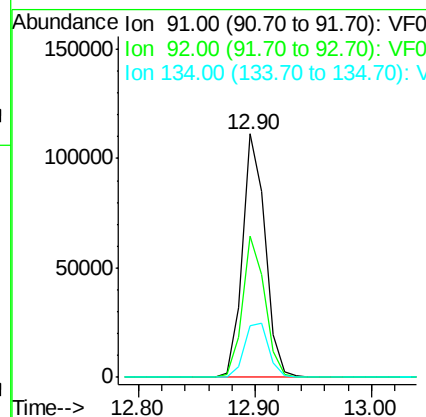
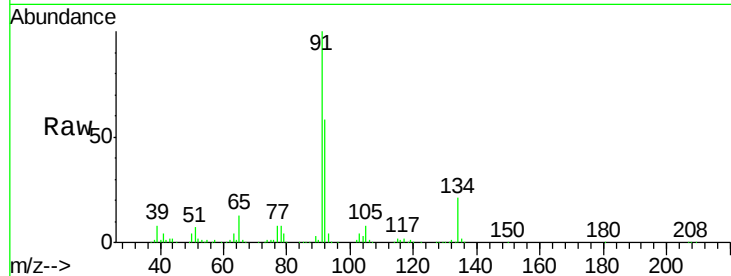
#89
n-Butylbenzene
Concen: 10.66 ug/l
RT: 12.90 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
91	100	150370		
92	57.8	30.0	90.1	
134	21.2	13.3	39.9	

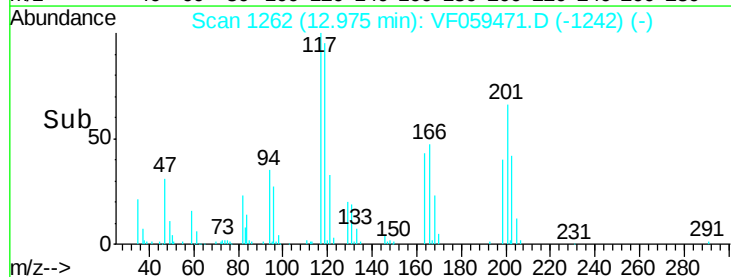
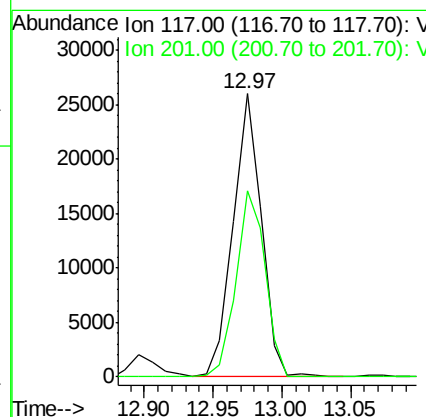
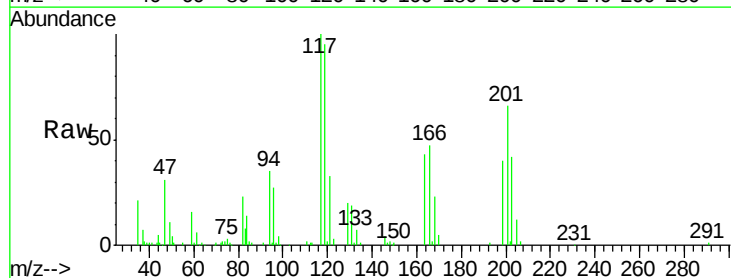
Manual Integrations
APPROVED

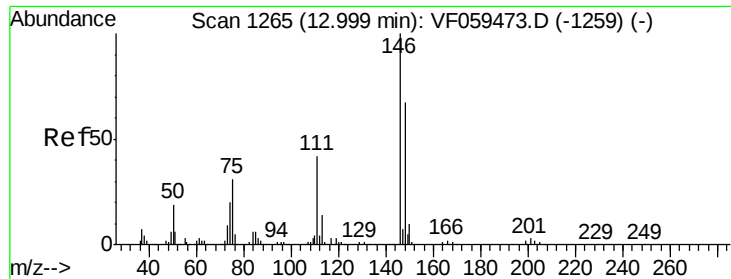
apatel
7/9/2018 9:34:12 AM



#90
Hexachloroethane
Concen: 10.76 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	37340		
201	68.1	40.6	121.8	





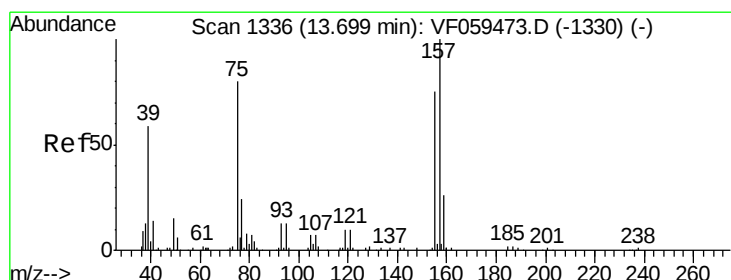
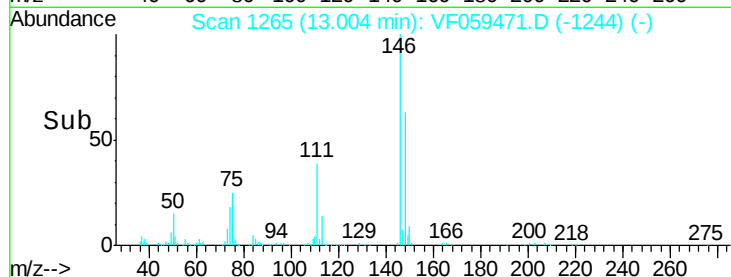
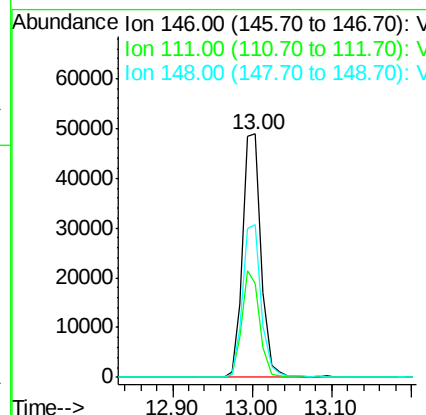
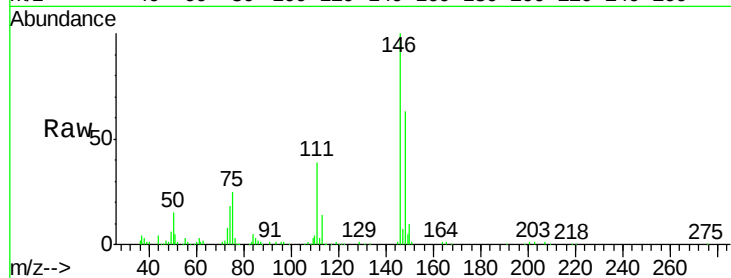
#91
 1,2-Dichlorobenzene
 Concen: 11.23 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	21.2	63.6
148	62.8	33.3	99.9

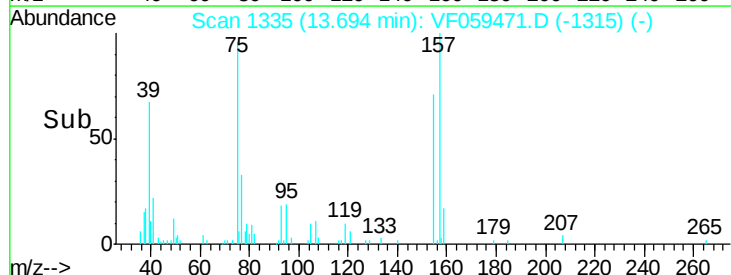
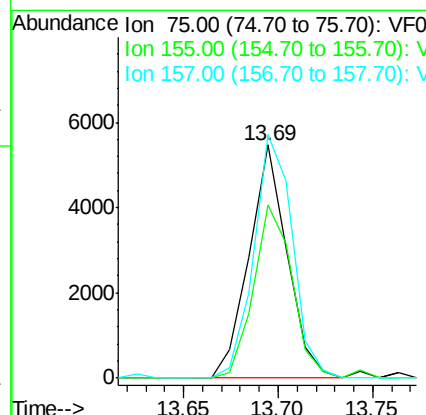
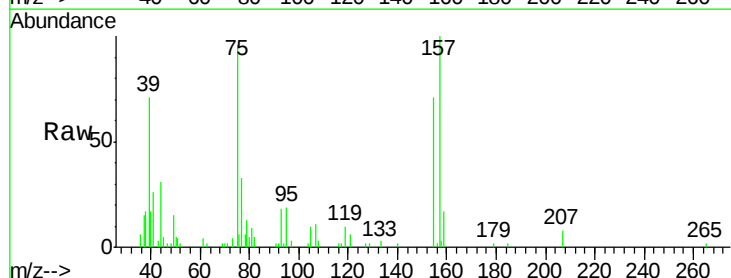
Manual Integrations
 APPROVED

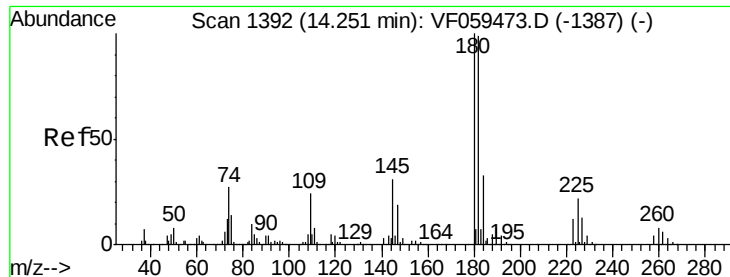
apatel
 7/9/2018 9:34:12 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.66 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. -0.00 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	74.5	47.3	141.8
157	107.9	62.6	187.8





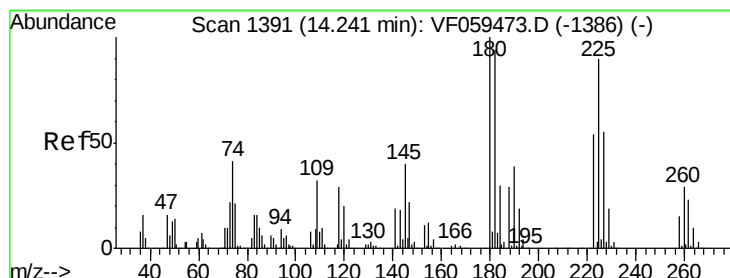
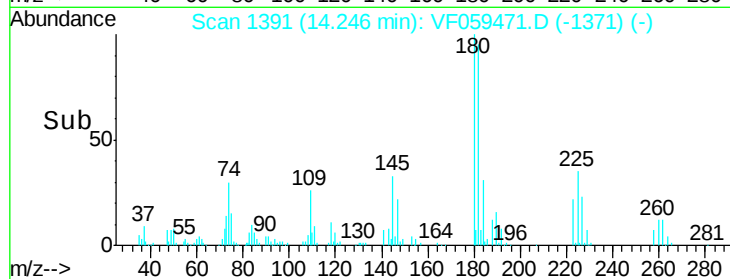
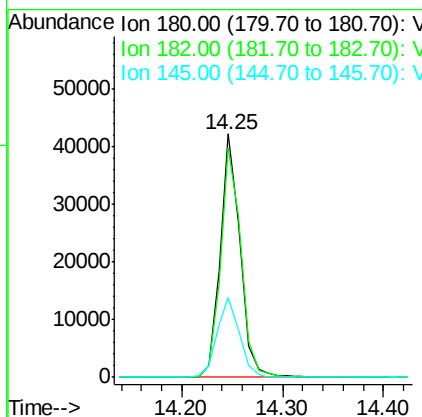
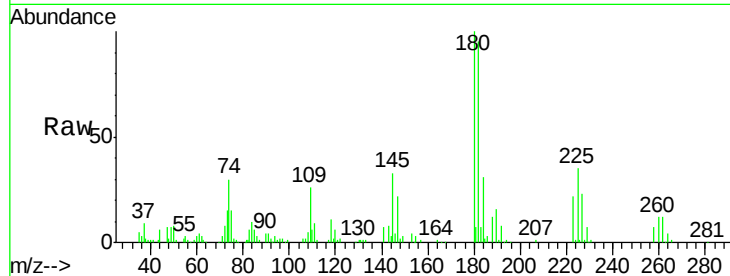
#93
 1,2,4-Trichlorobenzene
 Concen: 10.98 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	49.5	148.7
145	33.0	15.4	46.2

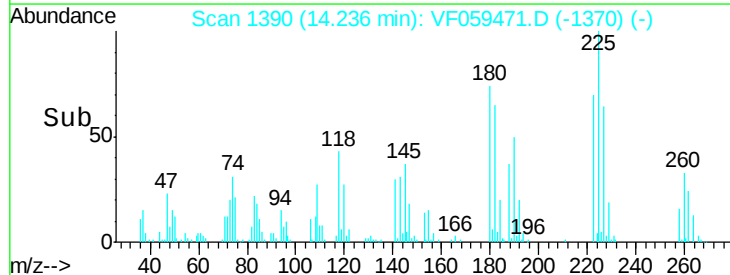
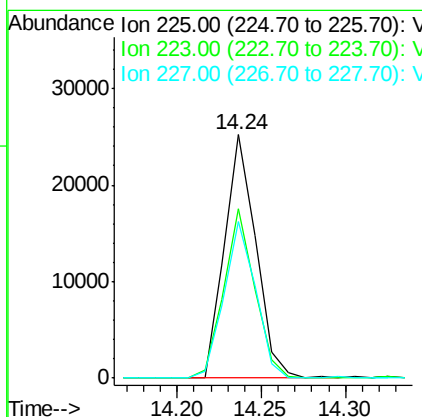
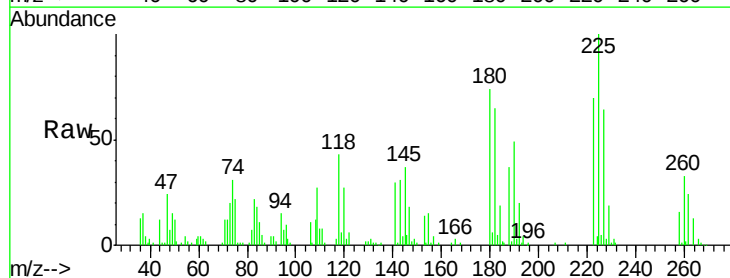
Manual Integrations
 APPROVED

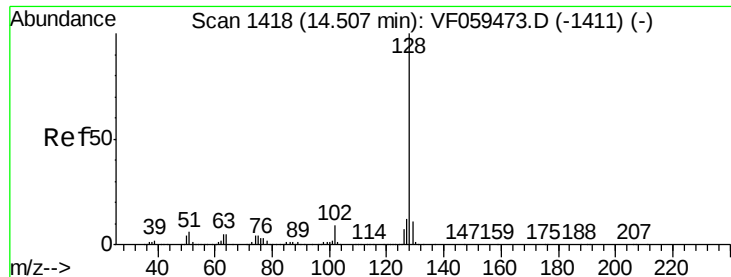
apatel
 7/9/2018 9:34:12 AM



#94
 Hexachlorobutadiene
 Concen: 10.78 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF059471.D
 Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	69.6	30.1	90.5
227	64.1	30.8	92.4





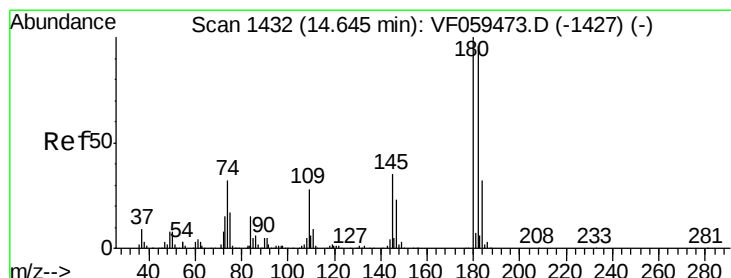
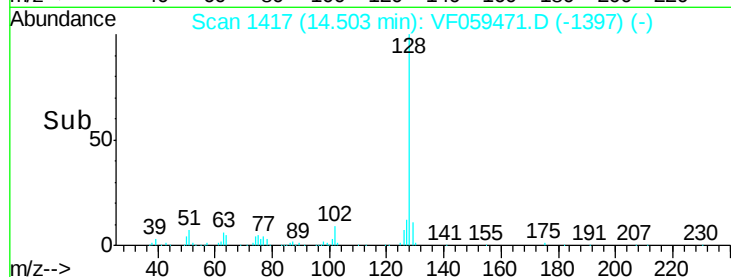
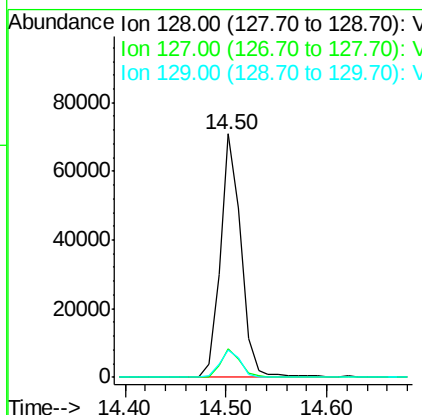
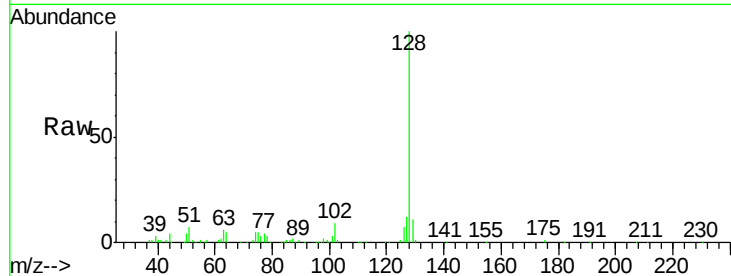
#95
Naphthalene
Concen: 9.16 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
128	100	101360		
127	11.7	9.9	14.9	
129	11.4	9.0	13.6	

Manual Integrations
APPROVED

apatel
7/9/2018 9:34:12 AM



#96
1,2,3-Trichlorobenzene
Concen: 11.83 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VF059471.D
Acq: 7 Jul 2018 2:32

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	59499		
182	90.1	47.9	143.7	
145	29.2	17.5	52.5	

