

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059567.D
 Acq On : 19 Jul 2018 20:57
 Operator : VA/AP
 Sample : VF0719SBS02
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS02

Manual Integrations
 APPROVED

apatel
 7/20/2018 11:49:00 AM

Quant Time: Jul 20 05:41:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	232419	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	335680	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.91	117	345505	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.63	152	229954	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	184790	51.12	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	102.24%	
35) Dibromofluoromethane	4.28	113	151849	52.23	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	104.46%	
50) Toluene-d8	7.70	98	353217	48.23	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	96.46%	
62) 4-Bromofluorobenzene	11.51	95	205107	53.39	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	106.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	62776	22.05	ug/l	95
3) Chloromethane	1.09	50	32888	20.99	ug/l	98
4) Vinyl Chloride	1.15	62	36179	22.88	ug/l #	84
5) Bromomethane	1.33	94	30984	28.28	ug/l	96
6) Chloroethane	1.42	64	20994	26.34	ug/l	93
7) Trichlorofluoromethane	1.48	101	83426m	21.56	ug/l	
8) Diethyl Ether	1.70	74	14568	19.57	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.90	101	51751	31.67	ug/l	94
10) Methyl Iodide	1.95	142	85976	30.06	ug/l	93
11) Tert butyl alcohol	2.67	59	16310	98.64	ug/l #	82
12) 1,1-Dichloroethene	1.85	96	37697	21.69	ug/l #	72
13) Acrolein	2.08	56	7839	87.79	ug/l	98
14) Allyl chloride	2.19	41	63886	29.46	ug/l	94
15) Acrylonitrile	3.07	53	27533	90.79	ug/l	94
16) Acetone	2.33	43	65690	105.77	ug/l #	89
17) Carbon Disulfide	1.84	76	103196	23.18	ug/l	100
18) Methyl Acetate	2.44	43	22915	18.87	ug/l	96
19) Methyl tert-butyl Ether	2.53	73	116024	21.28	ug/l	99
20) Methylene Chloride	2.27	84	45255	25.51	ug/l #	82
21) trans-1,2-Dichloroethene	2.41	96	39416	24.53	ug/l	99
22) Diisopropyl ether	2.92	45	122444	20.09	ug/l	98
23) Vinyl Acetate	3.32	43	361109	101.39	ug/l #	96
24) 1,1-Dichloroethane	3.00	63	91308	24.26	ug/l	98
25) 2-Butanone	4.50	43	77541	92.40	ug/l	97
26) 2,2-Dichloropropane	3.76	77	70099	28.15	ug/l	96
27) cis-1,2-Dichloroethene	3.63	96	46390	24.81	ug/l	100
28) Bromochloromethane	3.89	49	33851	20.43	ug/l #	100
29) Tetrahydrofuran	4.25	42	33497	83.87	ug/l	95
30) Chloroform	4.03	83	124858	22.96	ug/l	98
31) Cyclohexane	3.86	56	51722	26.53	ug/l #	79
32) 1,1,1-Trichloroethane	4.27	97	105954	29.99	ug/l	96
36) 1,1-Dichloropropene	4.46	75	75819	22.57	ug/l	97
37) Ethyl Acetate	4.28	43	34879	15.29	ug/l #	1
38) Carbon Tetrachloride	4.17	117	113188m	29.40	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059567.D
 Acq On : 19 Jul 2018 20:57
 Operator : VA/AP
 Sample : VF0719SBS02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0719SBS02

Manual Integrations
 APPROVED

apatel
 7/20/2018 11:49:00 AM

Quant Time: Jul 20 05:41:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	65124	25.54	ug/l	96
40) Benzene	4.80	78	140554	21.56	ug/l	100
41) Methacrylonitrile	4.92	41	18047	18.73	ug/l	93
42) 1,2-Dichloroethane	5.11	62	94911	22.17	ug/l	98
43) Isopropyl Acetate	7.11	43	41115	17.03	ug/l #	94
44) Trichloroethene	5.67	130	54746	22.69	ug/l	95
45) 1,2-Dichloropropane	6.40	63	38676	21.38	ug/l	97
46) Dibromomethane	6.24	93	35250	21.39	ug/l	89
47) Bromodichloromethane	6.55	83	92364	21.78	ug/l	99
48) Methyl methacrylate	6.87	41	30631	17.76	ug/l	98
49) 1,4-Dioxane	6.86	88	3796	448.33	ug/l #	83
51) 4-Methyl-2-Pentanone	8.40	43	158780	92.78	ug/l	99
52) Toluene	7.78	92	107860	22.82	ug/l	99
53) t-1,3-Dichloropropene	8.42	75	82233	21.08	ug/l	98
54) cis-1,3-Dichloropropene	7.45	75	82654	21.28	ug/l	93
55) 1,1,2-Trichloroethane	8.64	97	38636	21.09	ug/l	97
56) Ethyl methacrylate	8.76	69	41933	18.46	ug/l	95
57) 1,3-Dichloropropane	8.99	76	69268	21.39	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.77	63	24922	124.27	ug/l	100
59) 2-Hexanone	9.62	43	125758	97.23	ug/l	95
60) Dibromochloromethane	8.86	129	65797	21.31	ug/l	89
61) 1,2-Dibromoethane	9.13	107	48323	21.26	ug/l	92
64) Tetrachloroethene	8.30	164	59271	23.04	ug/l	93
65) Chlorobenzene	9.94	112	144356	22.28	ug/l	94
66) 1,1,1,2-Tetrachloroethane	10.07	131	64095	21.72	ug/l	93
67) Ethyl Benzene	10.04	91	264615	22.94	ug/l	98
68) m/p-Xylenes	10.26	106	184774	45.39	ug/l	98
69) o-Xylene	10.83	106	99209	22.89	ug/l	91
70) Styrene	10.89	104	155376	23.32	ug/l	100
71) Bromoform	10.88	173	40706	19.86	ug/l	98
73) Isopropylbenzene	11.23	105	312338	21.53	ug/l	100
74) N-amyl acetate	11.46	43	68723	14.79	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.78	83	59517	18.81	ug/l	95
76) 1,2,3-Trichloropropane	11.88	75	49778	19.26	ug/l	87
77) Bromobenzene	11.59	156	83629	20.56	ug/l	96
78) n-propylbenzene	11.68	91	379734	22.81	ug/l	93
79) 2-Chlorotoluene	11.81	91	225452	21.99	ug/l	96
80) 1,3,5-Trimethylbenzene	11.91	105	275801	22.68	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.96	75	16744m	14.18	ug/l	
82) 4-Chlorotoluene	11.99	91	245785	21.40	ug/l	90
83) tert-Butylbenzene	12.22	119	273121	23.40	ug/l	92
84) 1,2,4-Trimethylbenzene	12.28	105	280452	22.42	ug/l	98
85) sec-Butylbenzene	12.38	105	345255	23.26	ug/l	94
86) p-Isopropyltoluene	12.53	119	298181	23.09	ug/l	98
87) 1,3-Dichlorobenzene	12.55	146	156577	22.44	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	148064	21.53	ug/l	97
89) n-Butylbenzene	12.92	91	295670	24.47	ug/l	96
90) Hexachloroethane	12.99	117	73105	24.92	ug/l	93
91) 1,2-Dichlorobenzene	13.01	146	147604	22.12	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.71	75	14149	19.73	ug/l	81

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF071918\
Data File : VF059567.D
Acq On : 19 Jul 2018 20:57
Operator : VA/AP
Sample : VF0719SBSD02
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 59 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBSD02

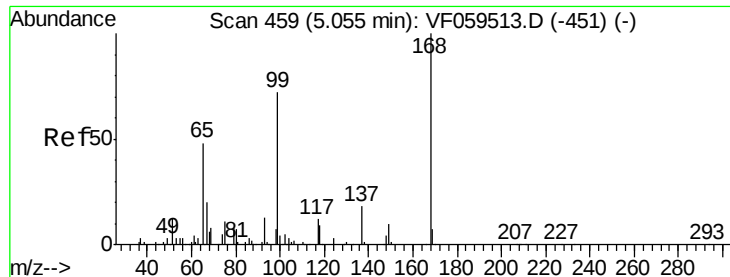
Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM

Quant Time: Jul 20 05:41:45 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 04:09:10 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	107336	26.47	µg/l	96
94) Hexachlorobutadiene	14.26	225	68968	33.20	µg/l	97
95) Naphthalene	14.52	128	194935	23.14	µg/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	102820	28.06	µg/l	98

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



#1

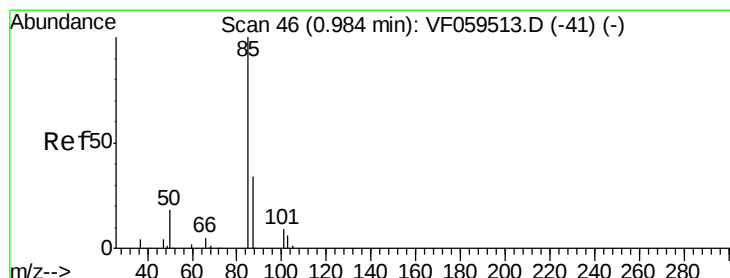
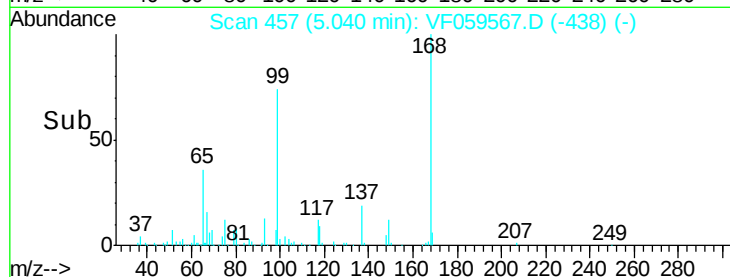
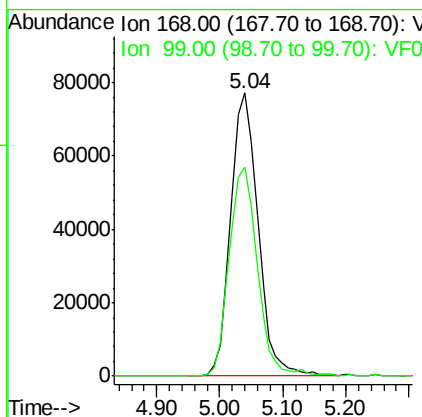
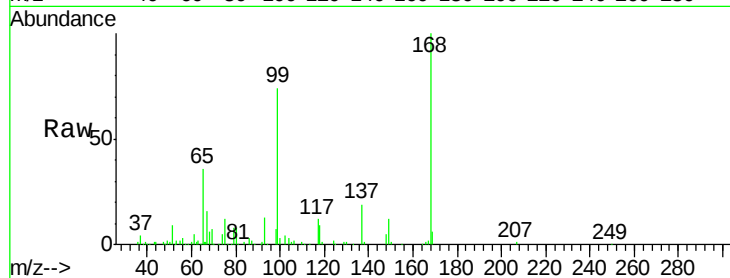
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS02

Tot Ion	Ratio	Lower	Upper
168	100		
99	74.0	57.6	86.4

Manual Integrations
 APPROVED

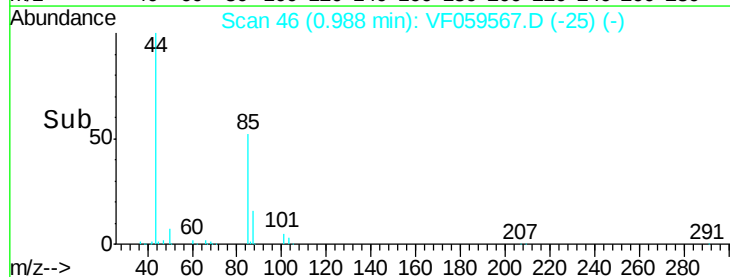
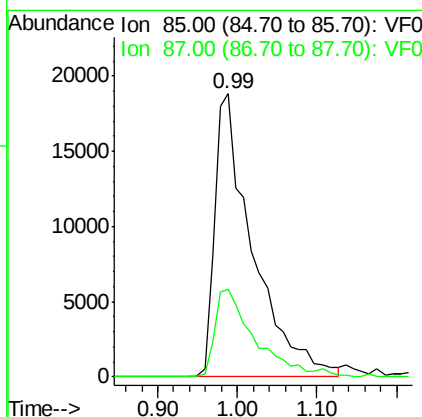
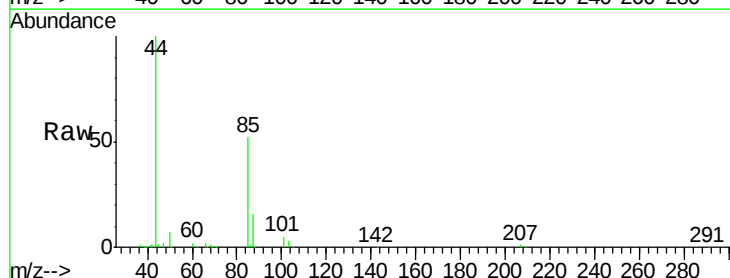
apatel
 7/20/2018 11:49:00 AM

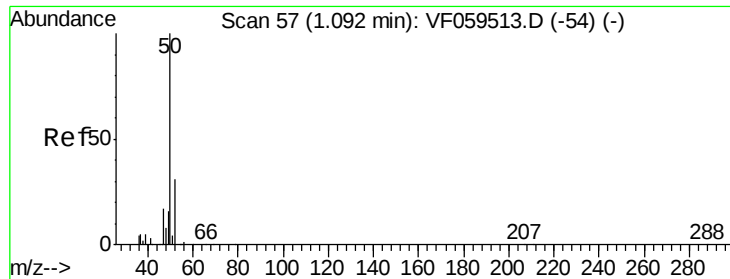


#2

Dichlorodifluoromethane
 Concen: 22.05 ug/l
 RT: 0.99 min Scan# 46
 Delta R.T. 0.00 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.9	16.9	50.6





#3

Chloromethane

Concen: 20.99 ug/l

RT: 1.09 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 50 Resp: 32888

Ion Ratio Lower Upper

50 100

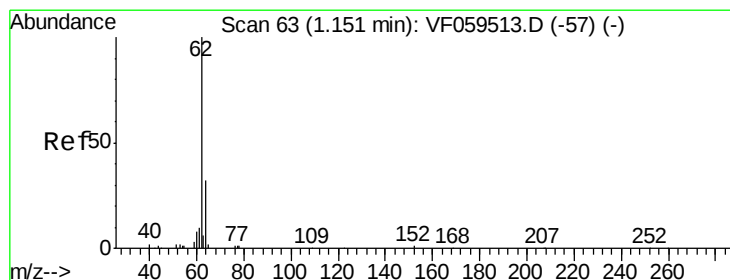
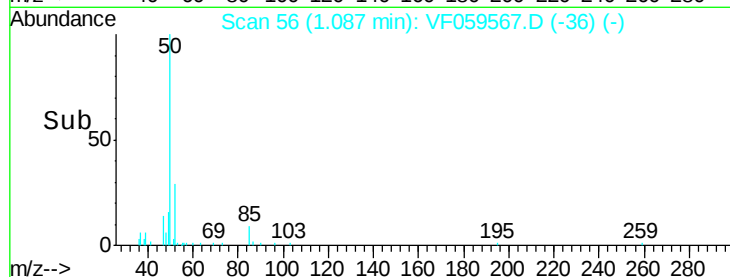
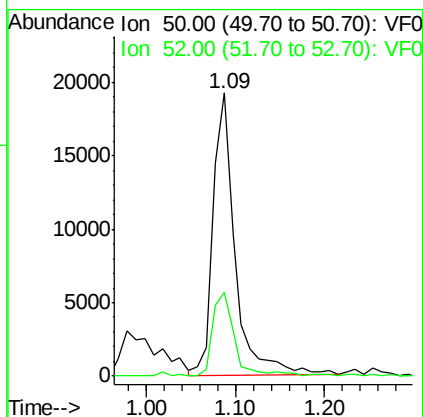
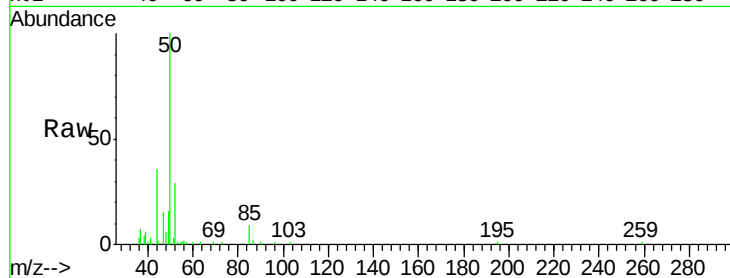
52 29.5 24.6 37.0

Manual Integrations

APPROVED

apatel

7/20/2018 11:49:00 AM



#4

Vinyl Chloride

Concen: 22.88 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF059567.D

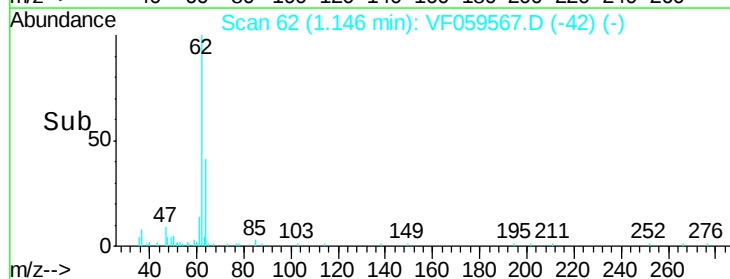
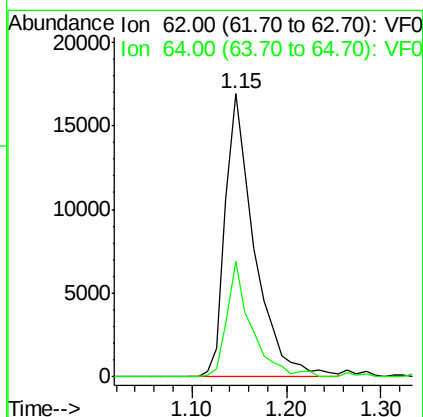
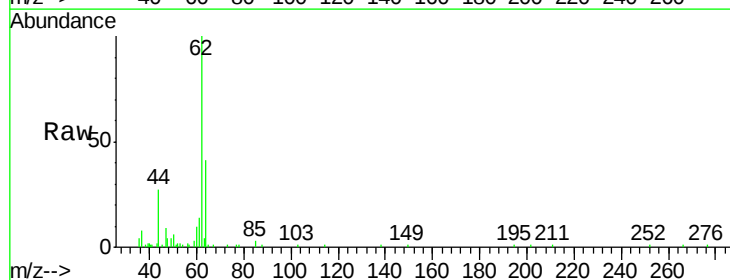
Acq: 19 Jul 2018 20:57

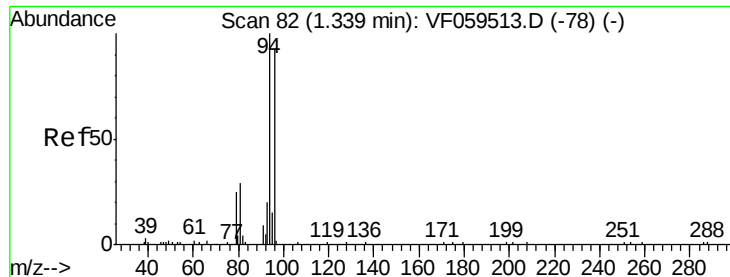
Tgt Ion: 62 Resp: 36179

Ion Ratio Lower Upper

62 100

64 40.9 25.7 38.5#





#5

Bromomethane

Concen: 28.28 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 94 Resp: 30984

Ion Ratio Lower Upper

94 100

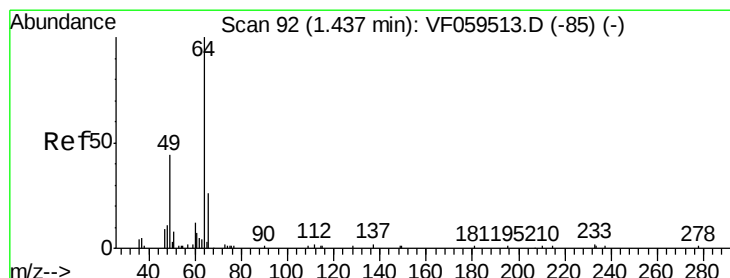
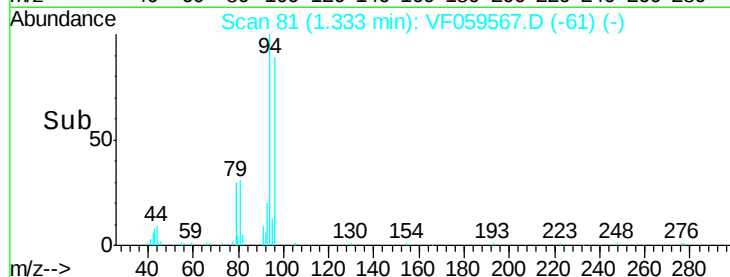
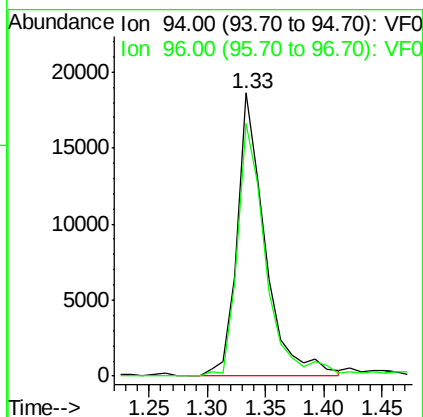
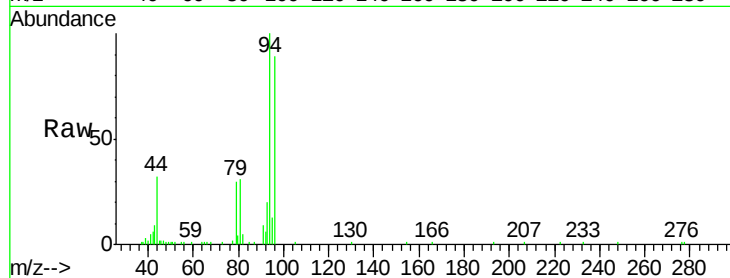
96 89.3 74.2 111.2

Manual Integrations

APPROVED

apatel

7/20/2018 11:49:00 AM



#6

Chloroethane

Concen: 26.34 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.02 min

Lab File: VF059567.D

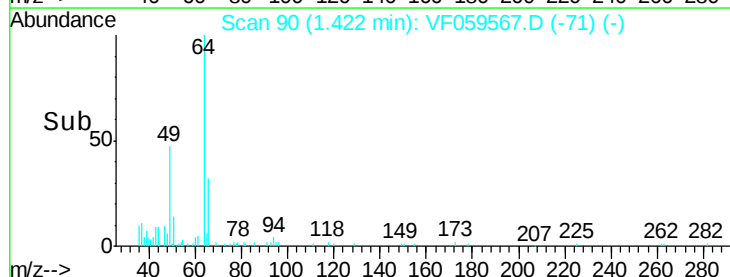
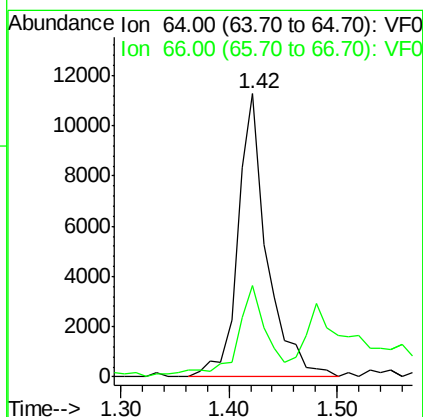
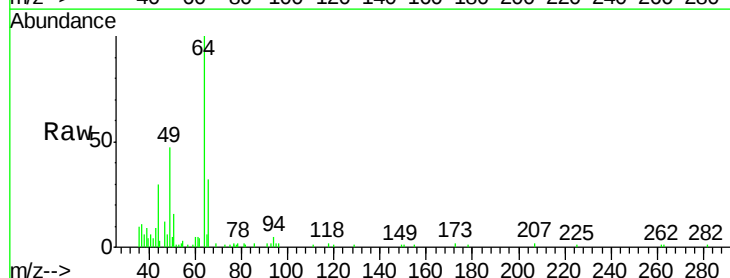
Acq: 19 Jul 2018 20:57

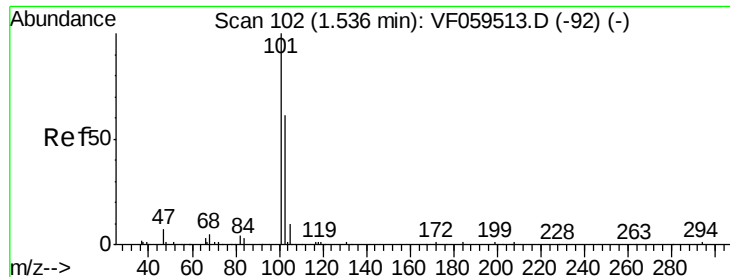
Tgt Ion: 64 Resp: 20994

Ion Ratio Lower Upper

64 100

66 32.2 22.9 34.3





#7

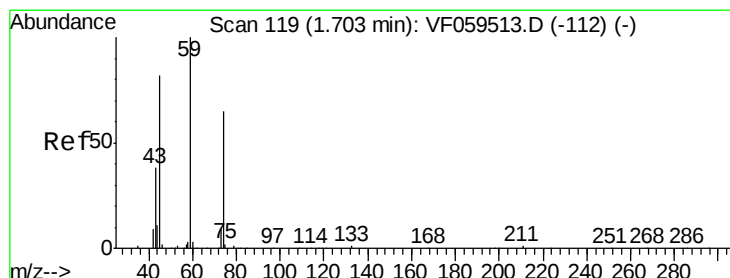
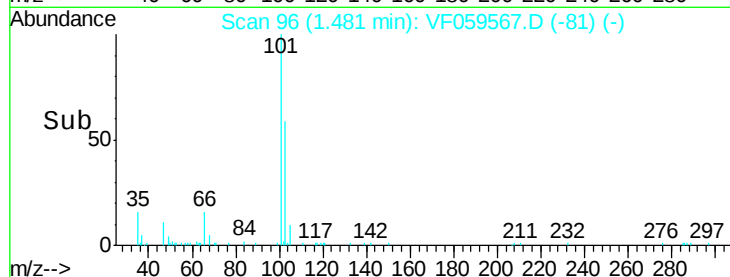
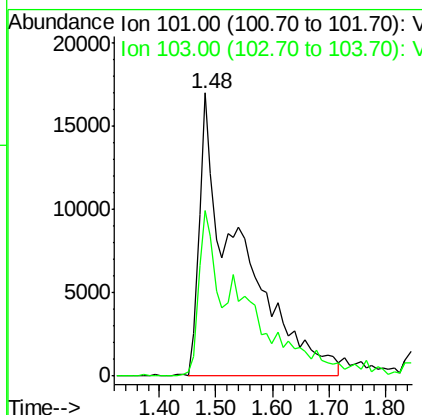
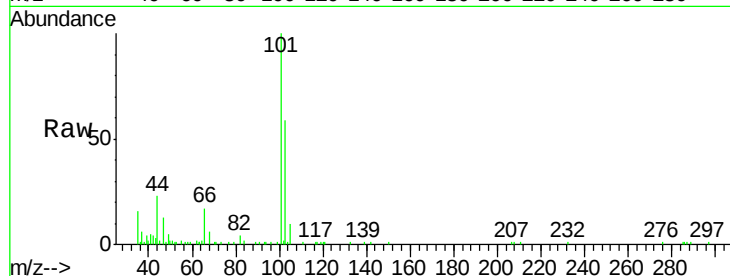
Trichlorofluoromethane
Concen: 21.56 ug/l m
RT: 1.48 min Scan# 96
Delta R.T. -0.05 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.5	48.6	72.8

Manual Integrations
APPROVED

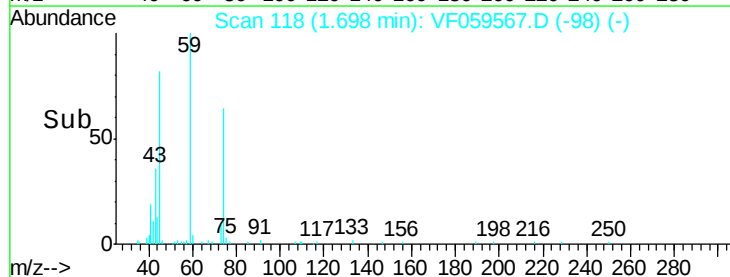
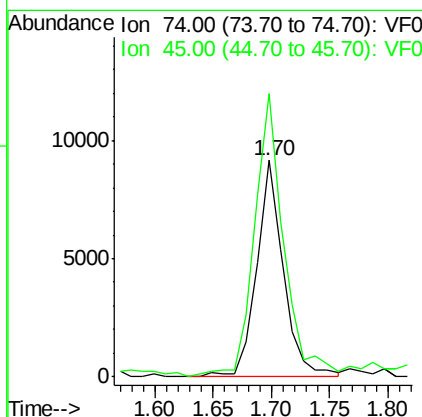
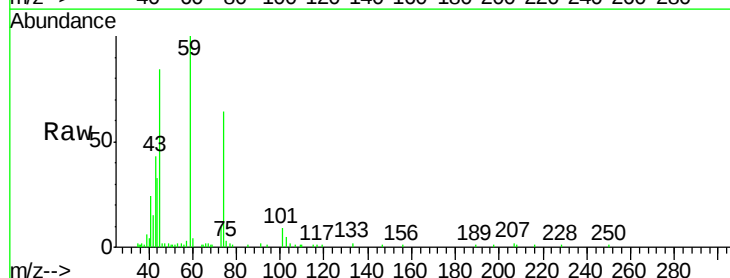
apatel
7/20/2018 11:49:00 AM

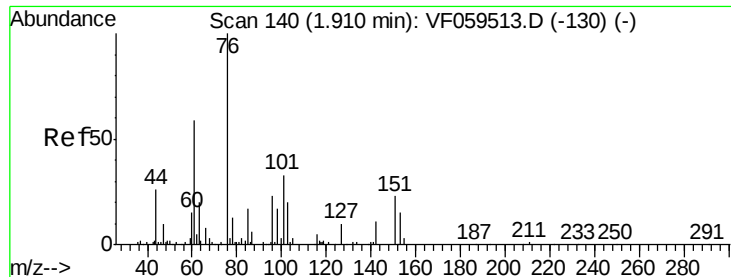


#8

Diethyl Ether
Concen: 19.57 ug/l
RT: 1.70 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
74	100		
45	130.8	63.6	190.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 31.67 ug/l

RT: 1.90 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

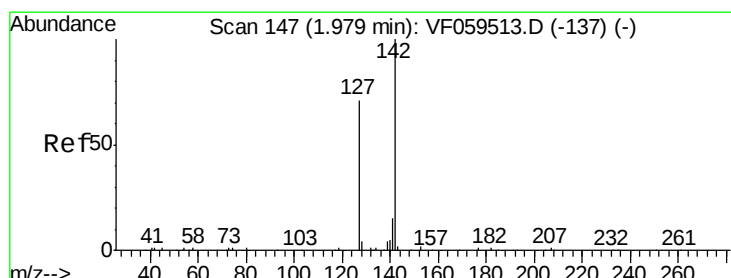
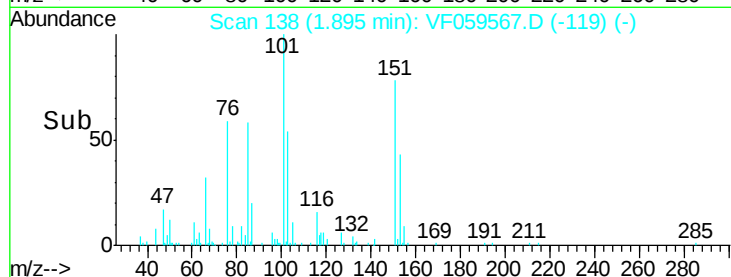
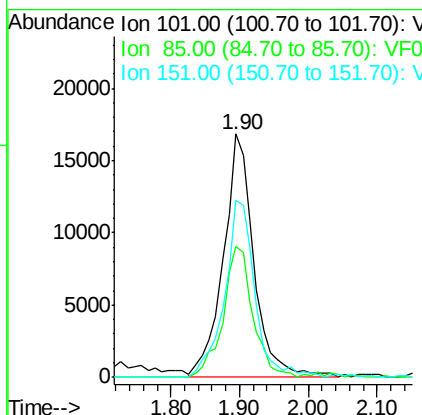
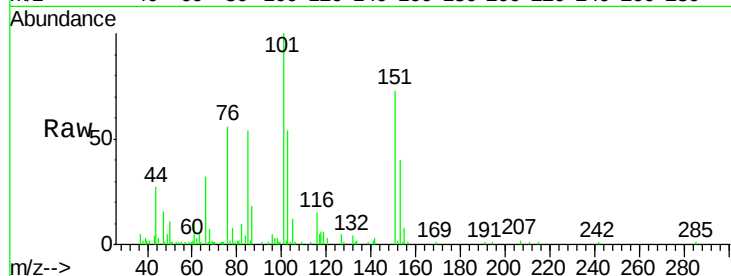
ClientSampleId :

VF0719SBS02

Tot Ion:	101	Resp:	51751
Ion Ratio	Lower	Upper	
101	100		
85	53.9	39.8	59.6
151	72.7	54.2	81.2

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#10

Methyl Iodide

Concen: 30.06 ug/l

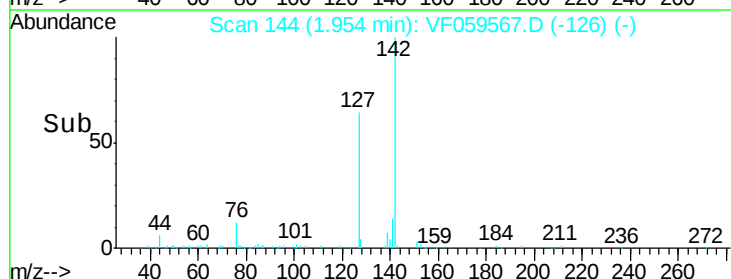
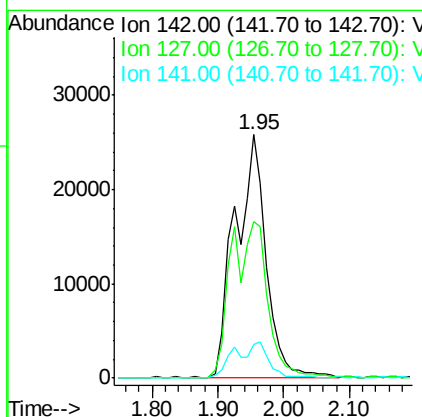
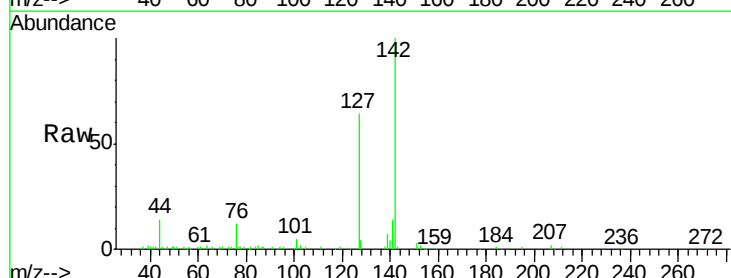
RT: 1.95 min Scan# 144

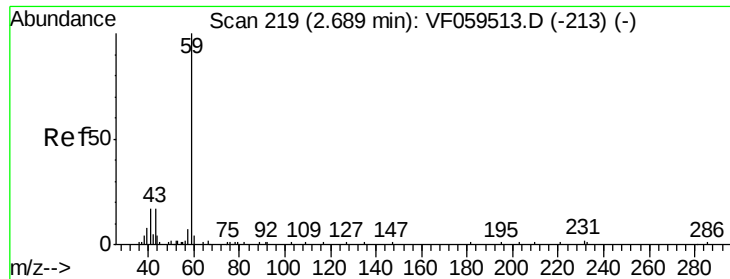
Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion:	142	Resp:	85976
Ion Ratio	Lower	Upper	
142	100		
127	64.1	56.4	84.6
141	13.8	12.0	18.0





#11

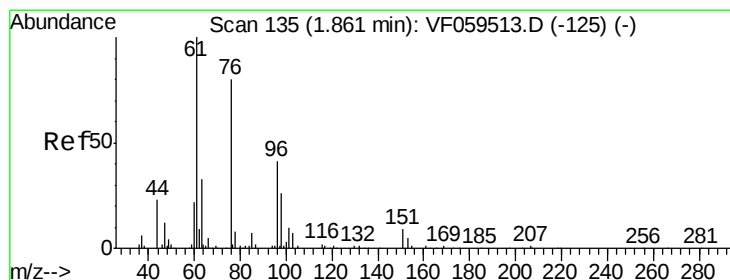
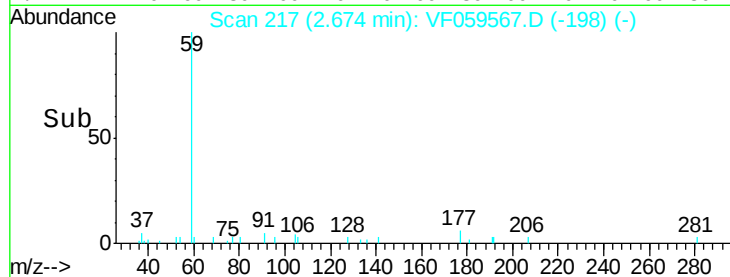
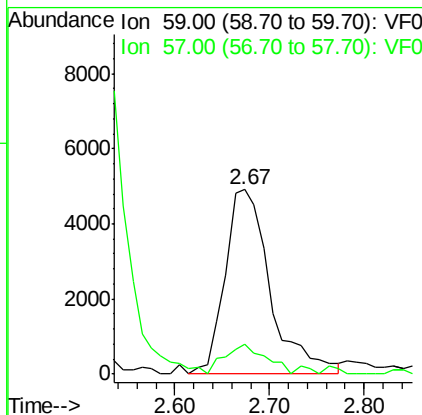
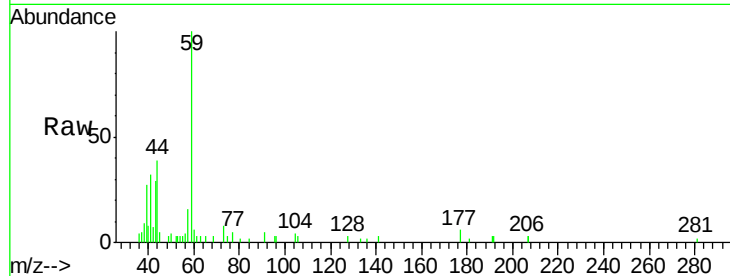
Tert butyl alcohol
Concen: 98.64 ug/l
RT: 2.67 min Scan# 217
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	16.2	7.7	11.5#

Manual Integrations
APPROVED

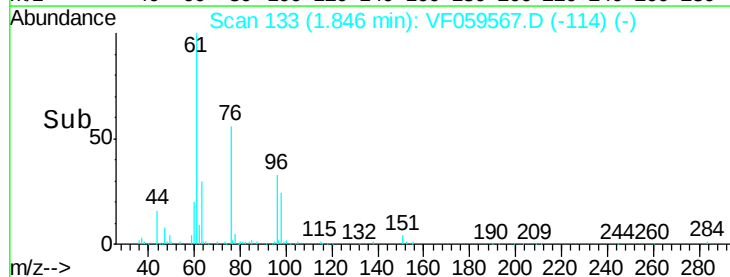
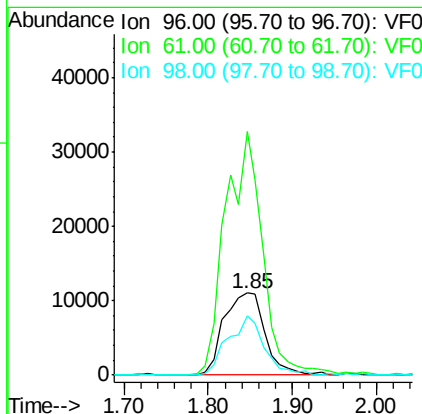
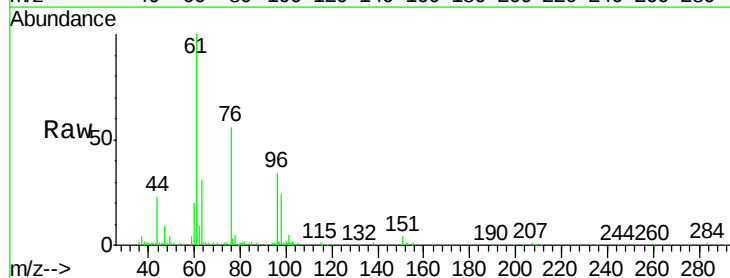
apatel
7/20/2018 11:49:00 AM

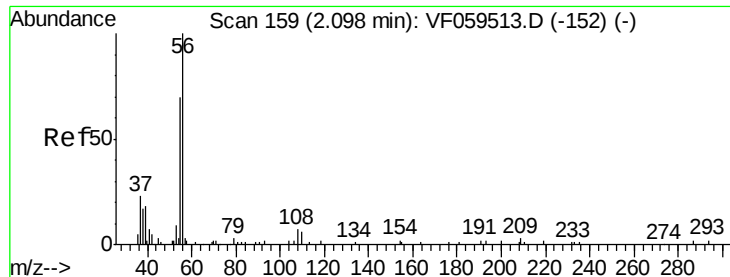


#12

1,1-Dichloroethene
Concen: 21.69 ug/l
RT: 1.85 min Scan# 133
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	297.9	194.3	291.5#
98	72.1	50.3	75.5





#13

Acrolein

Concen: 87.79 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tot Ion: 56 Resp: 7839

Ion Ratio Lower Upper

56 100

55 76.1 59.4 89.2

Instrument :

MSVOA_F

ClientSampleId :

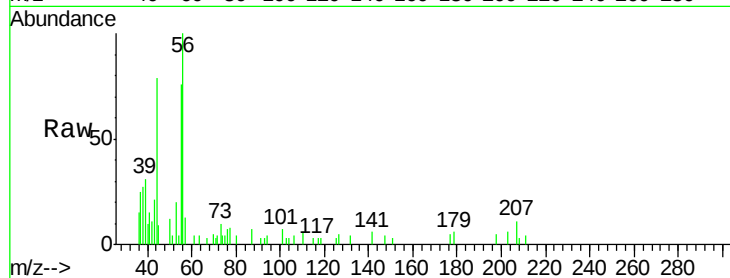
VF0719SBS02

Manual Integrations

APPROVED

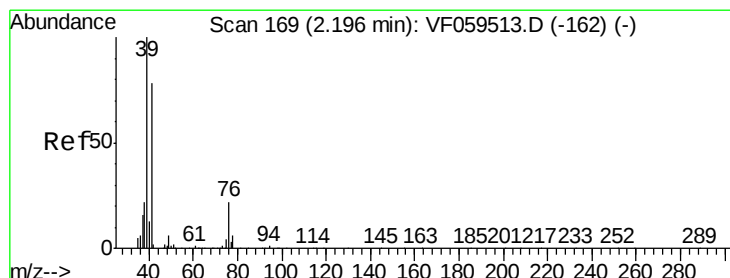
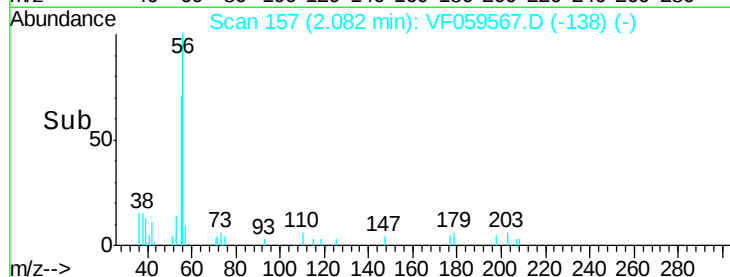
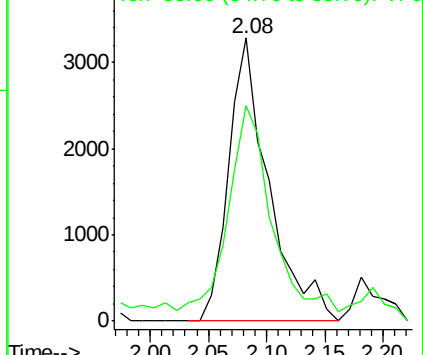
apatel

7/20/2018 11:49:00 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 29.46 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.01 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

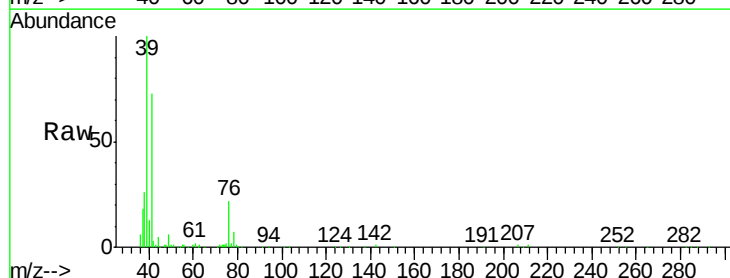
Tgt Ion: 41 Resp: 63886

Ion Ratio Lower Upper

41 100

39 136.3 103.0 154.4

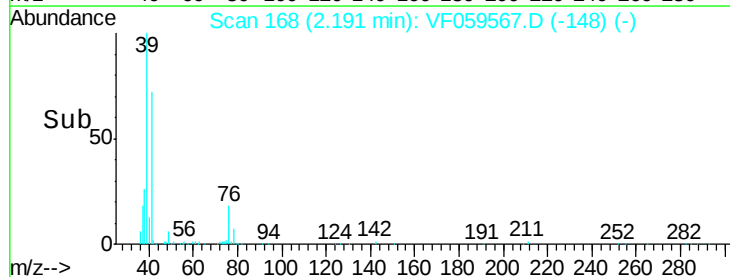
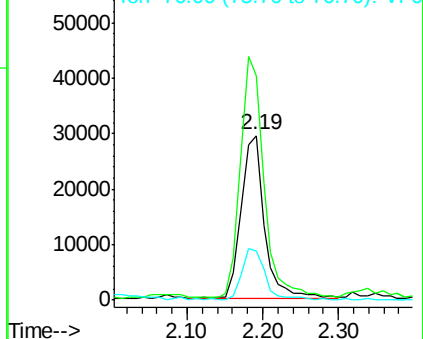
76 29.7 22.6 34.0

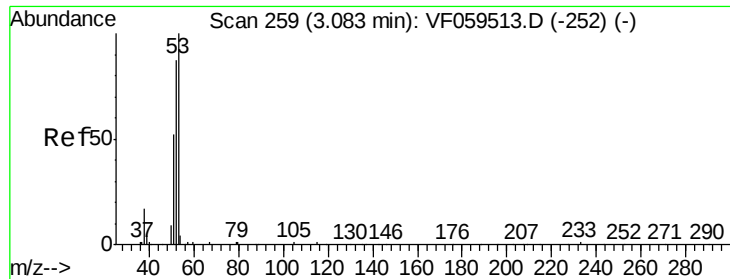


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





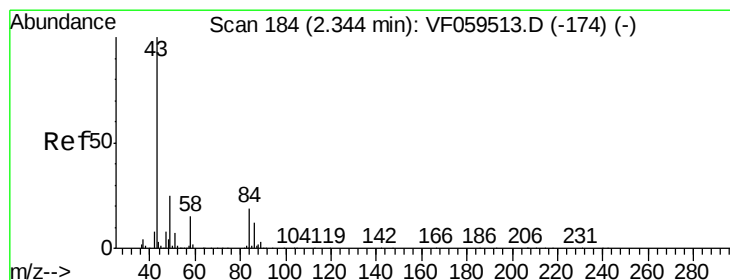
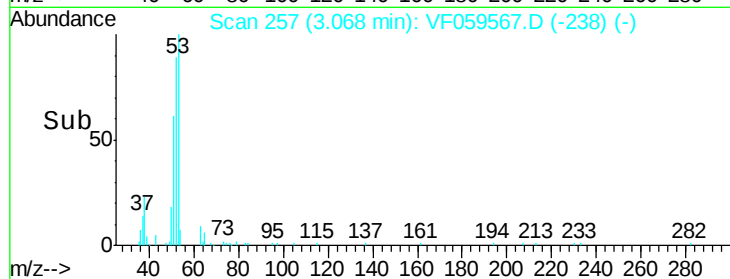
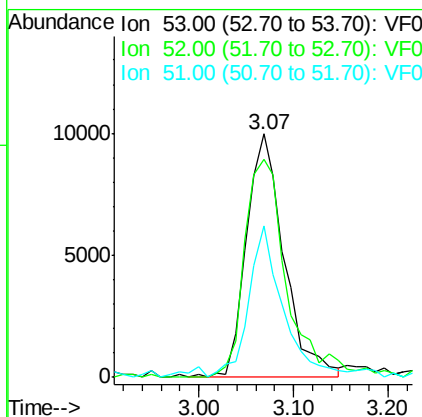
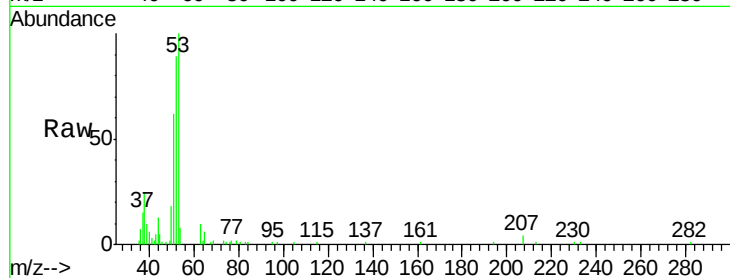
#15
 Acrylonitrile
 Concen: 90.79 ug/l
 RT: 3.07 min Scan# 257
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0719SBS02

Tot Ion:	53	Resp:	27533
Ion Ratio	Lower	Upper	
53	100		
52	89.4	70.1	105.1
51	62.3	42.5	63.7

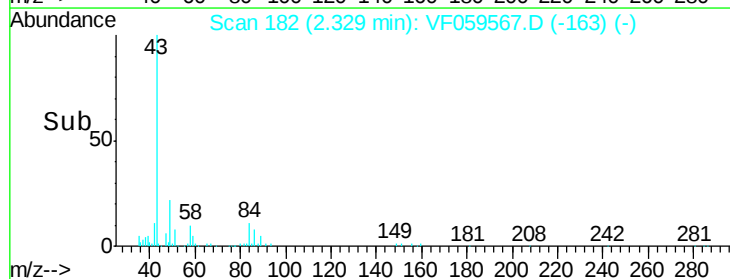
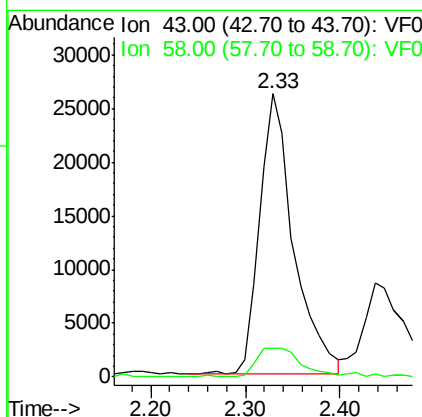
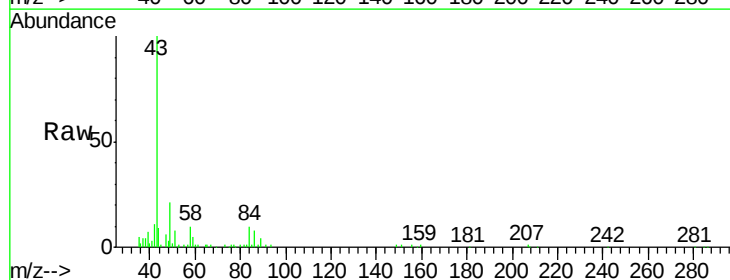
Manual Integrations
 APPROVED

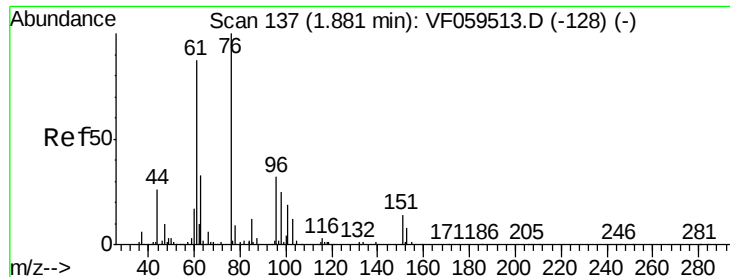
apatel
 7/20/2018 11:49:00 AM



#16
 Acetone
 Concen: 105.77 ug/l
 RT: 2.33 min Scan# 182
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Tgt Ion:	43	Resp:	65690
Ion Ratio	Lower	Upper	
43	100		
58	10.1	11.8	17.6#





#17

Carbon Disulfide

Concen: 23.18 ug/l

RT: 1.84 min Scan# 132

Delta R.T. -0.04 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.8	11.6

Instrument :

MSVOA_F

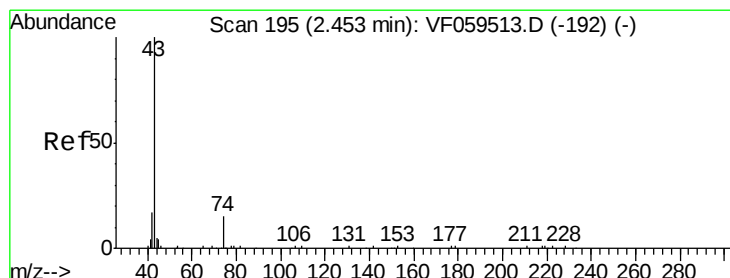
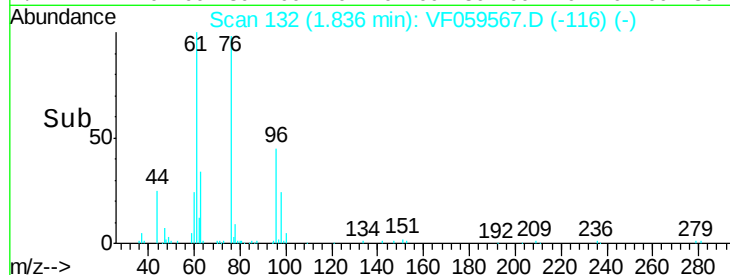
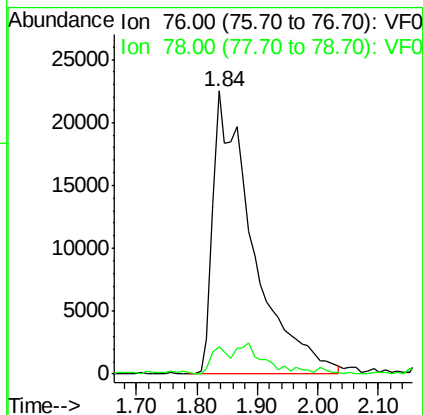
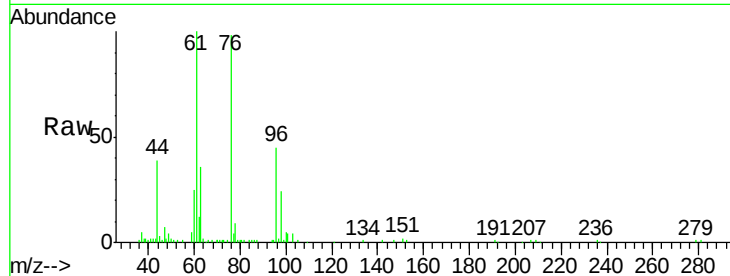
ClientSampleId :

VF0719SBS02

Manual Integrations
APPROVED

apatel

7/20/2018 11:49:00 AM



#18

Methyl Acetate

Concen: 18.87 ug/l

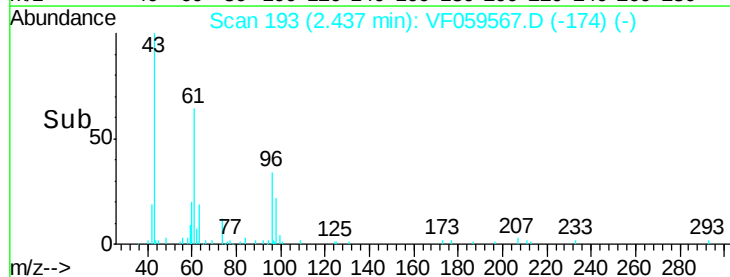
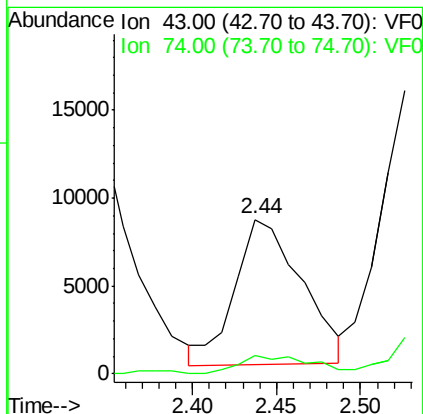
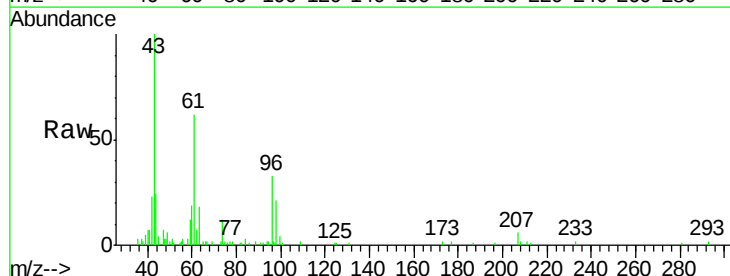
RT: 2.44 min Scan# 193

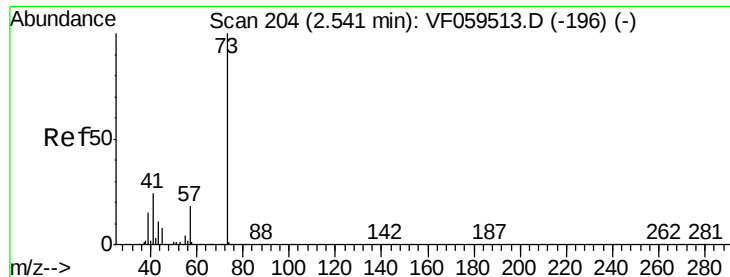
Delta R.T. -0.01 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
43	100		
74	11.6	10.6	15.8





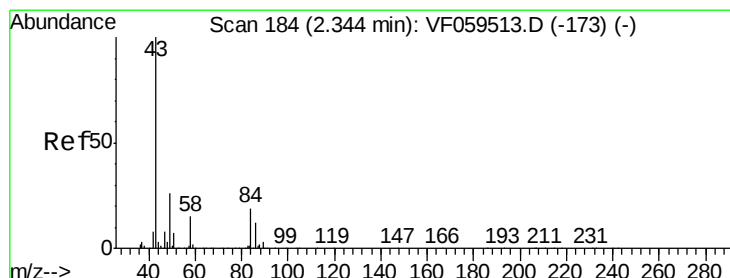
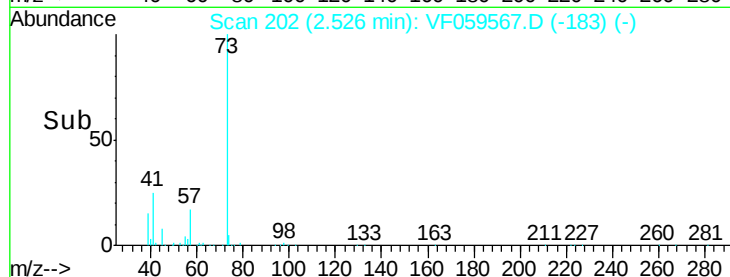
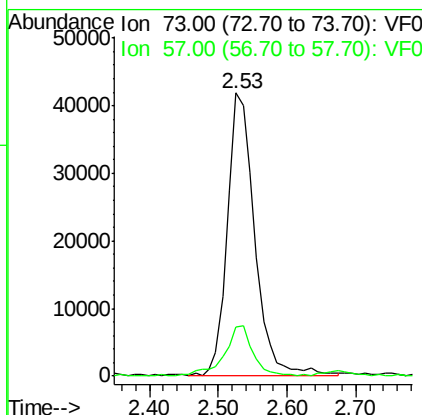
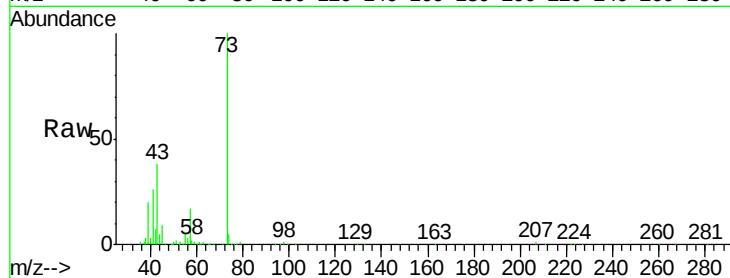
#19
Methyl tert-butyl Ether
Concen: 21.28 ug/l
RT: 2.53 min Scan# 202
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion: 73 Resp: 116024
Ion Ratio Lower Upper
73 100
57 17.3 14.3 21.5

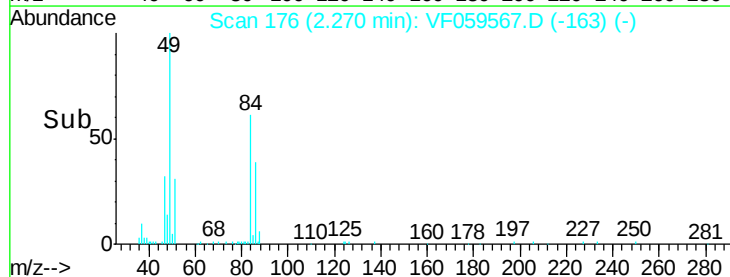
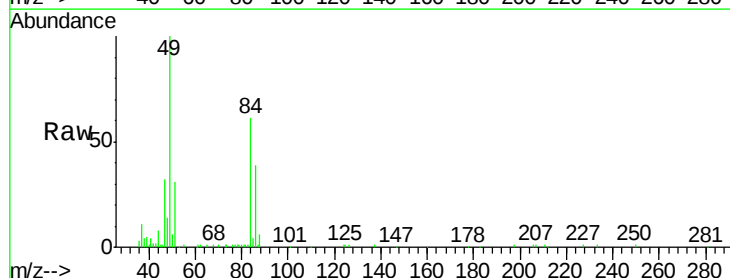
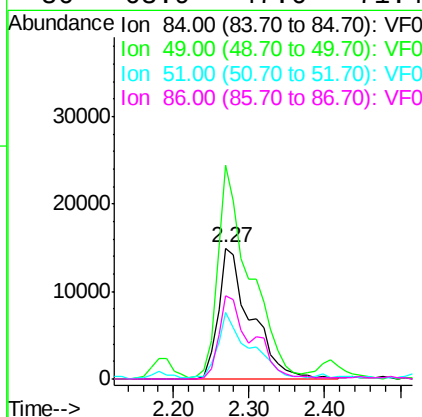
Manual Integrations
APPROVED

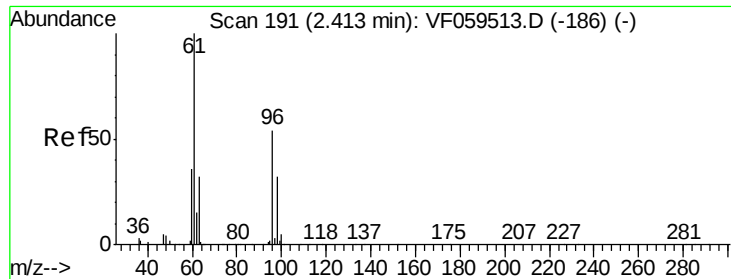
apatel
7/20/2018 11:49:00 AM



#20
Methylene Chloride
Concen: 25.51 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.07 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion: 84 Resp: 45255
Ion Ratio Lower Upper
84 100
49 163.0 109.4 164.2
51 50.8 30.5 45.7#
86 63.9 47.6 71.4





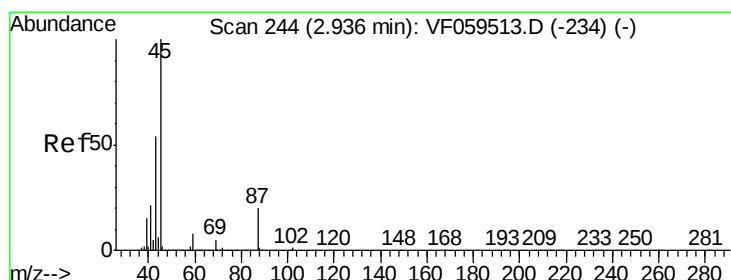
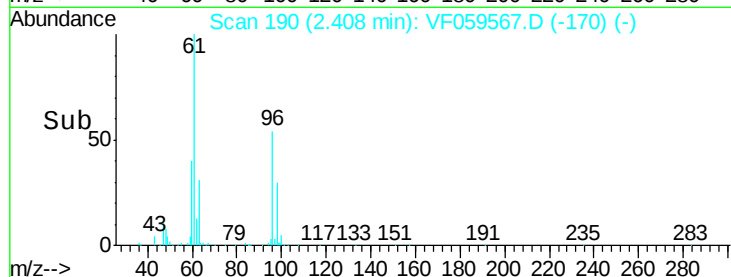
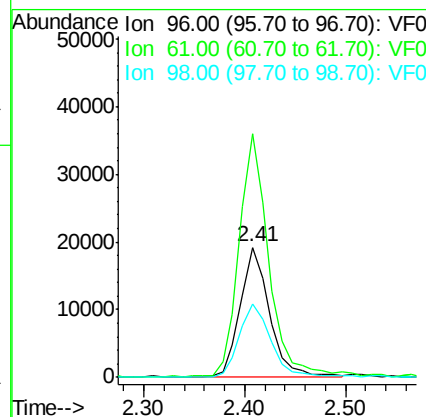
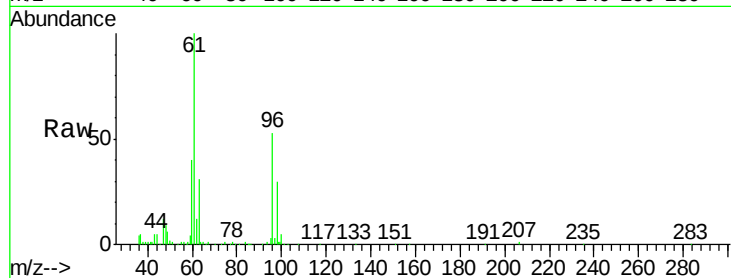
#21
trans-1,2-Dichloroethene
Concen: 24.53 ug/l
RT: 2.41 min Scan# 190
Delta R.T. -0.01 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	187.0	149.8	224.8
98	56.0	47.8	71.8

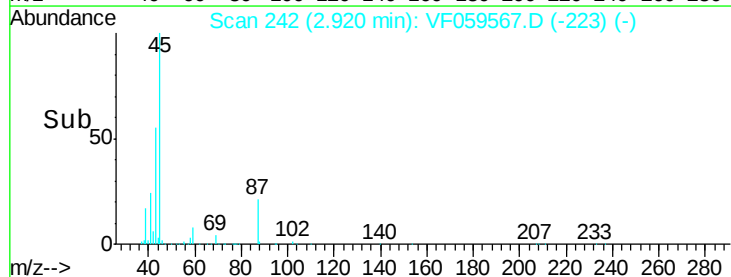
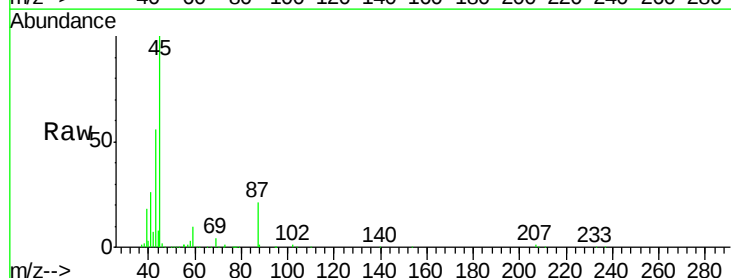
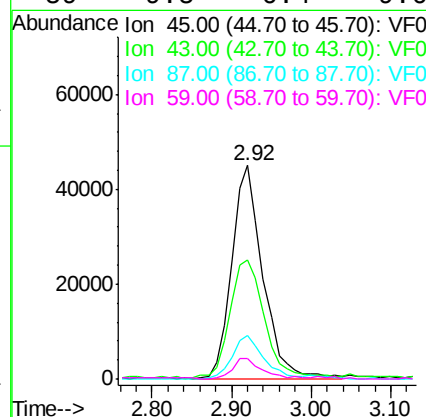
Manual Integrations
APPROVED

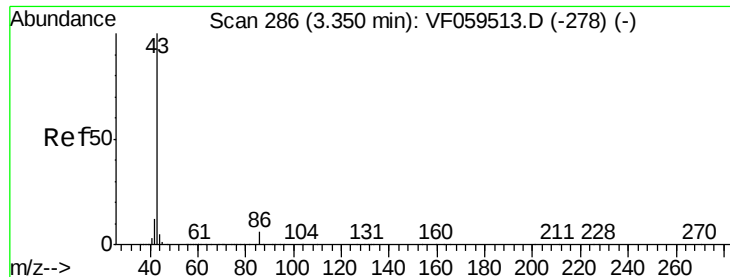
apatel
7/20/2018 11:49:00 AM



#22
Diisopropyl ether
Concen: 20.09 ug/l
RT: 2.92 min Scan# 242
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.9	43.6	65.4
87	20.7	15.6	23.4
59	9.5	6.4	9.6





#23

Vinyl Acetate

Concen: 101.39 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

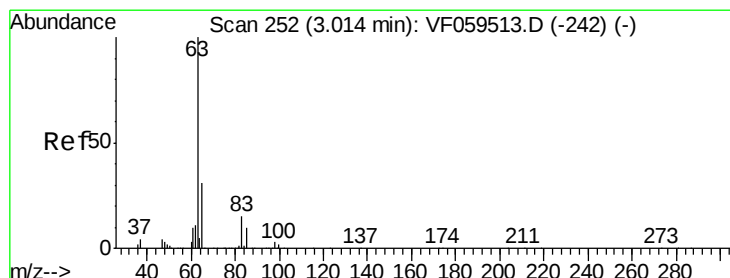
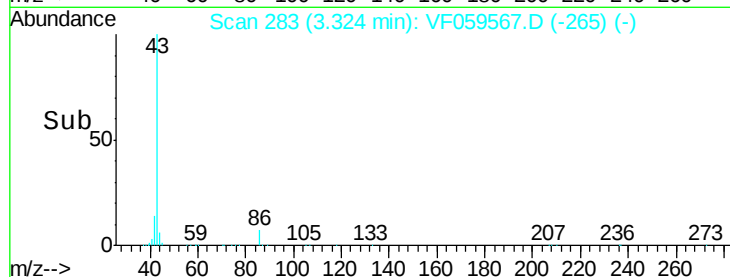
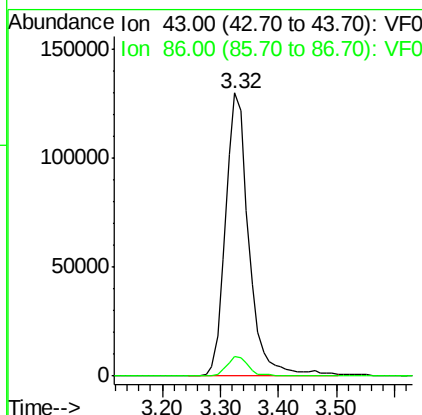
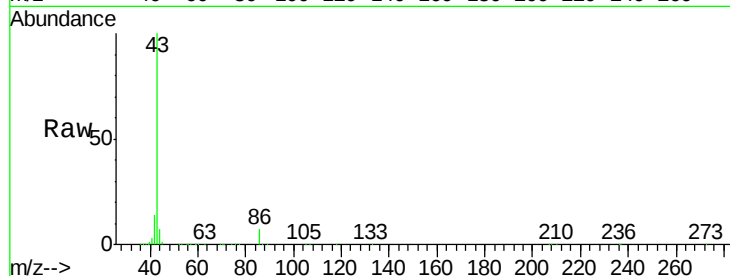
ClientSampleId :

VF0719SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
86	6.9	4.4	6.6#

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#24

1,1-Dichloroethane

Concen: 24.26 ug/l

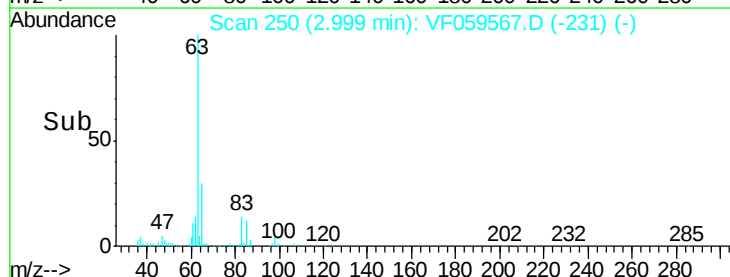
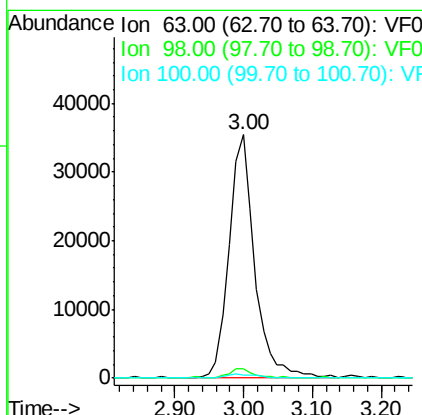
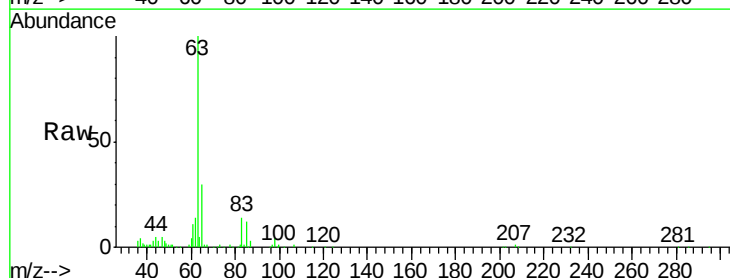
RT: 3.00 min Scan# 250

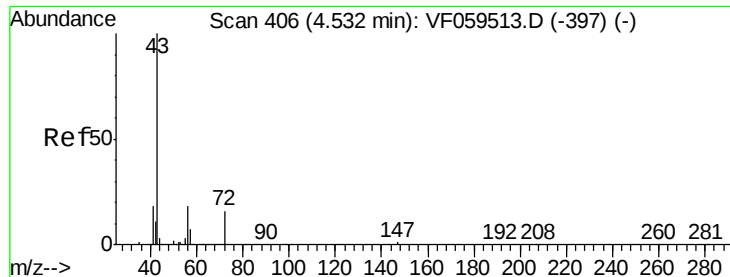
Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.8	1.8	5.4
100	1.4	1.3	3.8





#25

2-Butanone

Concen: 92.40 ug/l

RT: 4.50 min Scan# 402

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 43 Resp: 77541

Ion Ratio Lower Upper

43 100

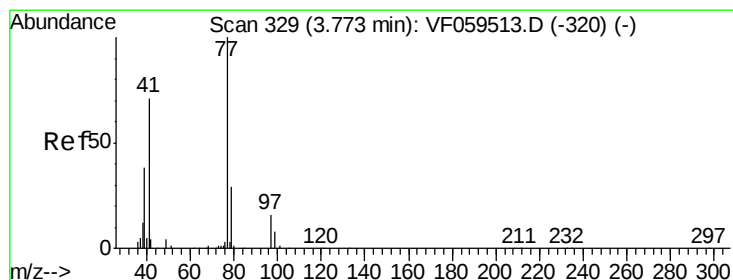
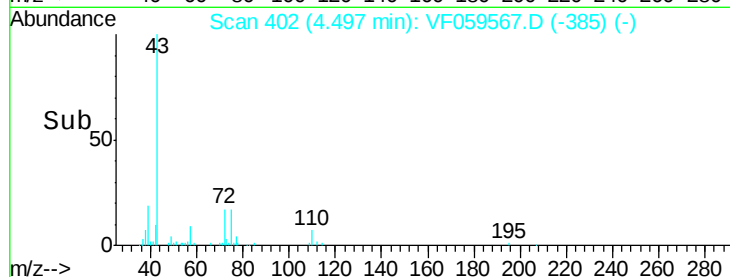
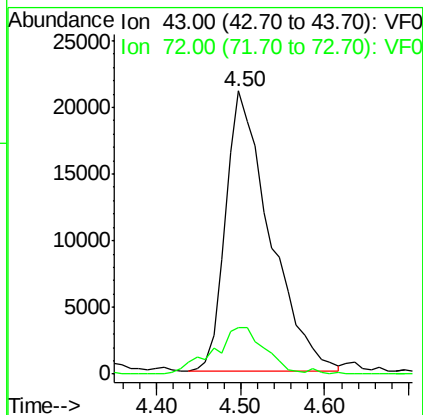
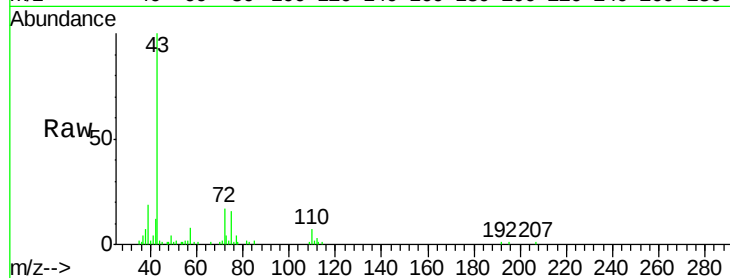
72 16.5 14.2 21.4

Manual Integrations

APPROVED

apatel

7/20/2018 11:49:00 AM



#26

2,2-Dichloropropane

Concen: 28.15 ug/l

RT: 3.76 min Scan# 327

Delta R.T. -0.02 min

Lab File: VF059567.D

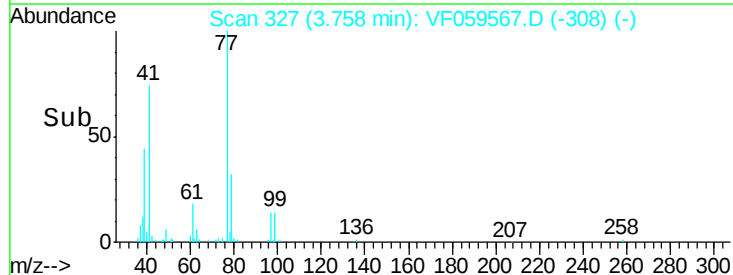
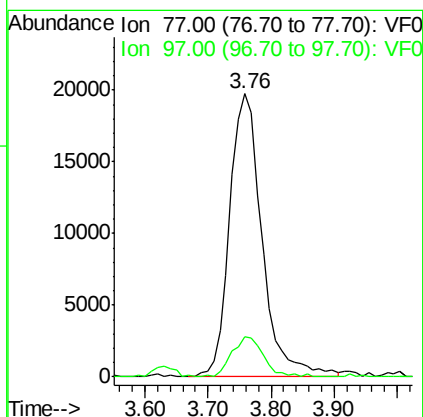
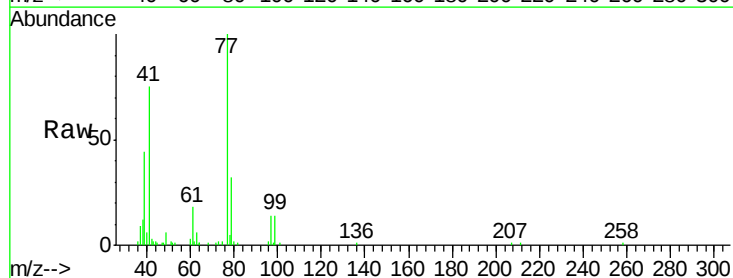
Acq: 19 Jul 2018 20:57

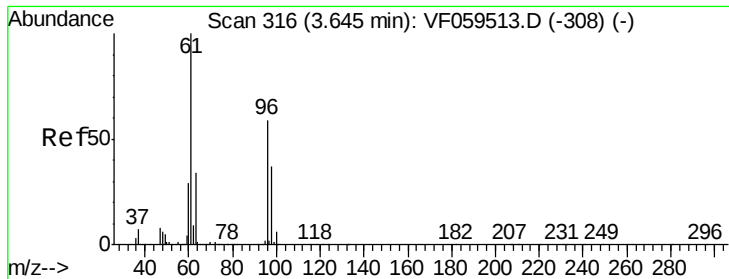
Tgt Ion: 77 Resp: 70099

Ion Ratio Lower Upper

77 100

97 14.4 8.1 24.3





#27

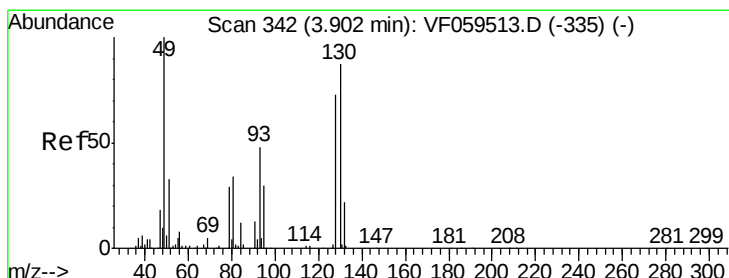
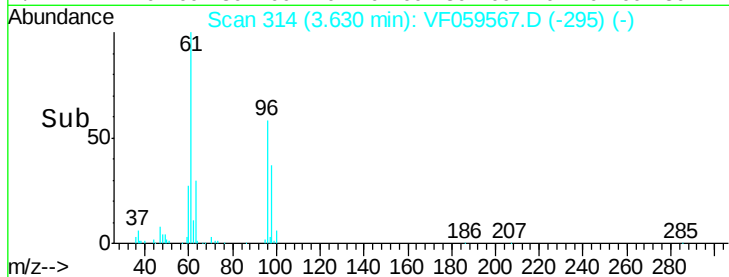
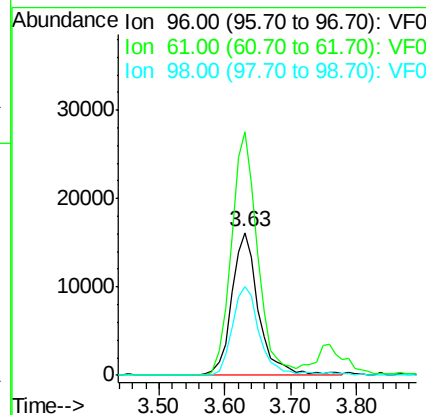
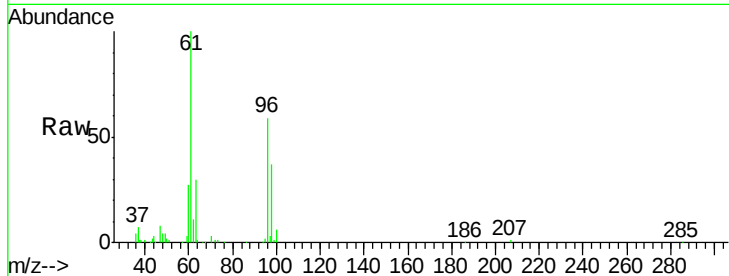
cis-1,2-Dichloroethene
Concen: 24.81 ug/l
RT: 3.63 min Scan# 314
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	46390		
61	170.2	0.0	339.0	
98	62.4	0.0	125.4	

Manual Integrations
APPROVED

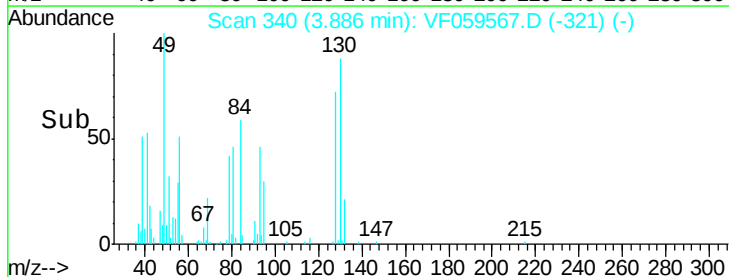
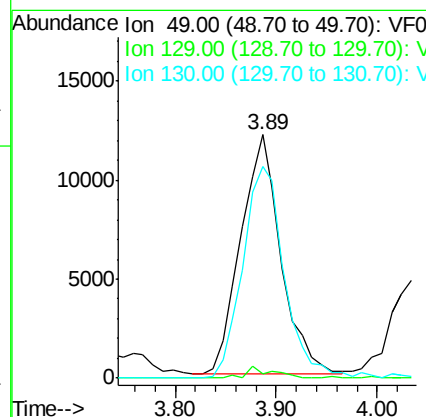
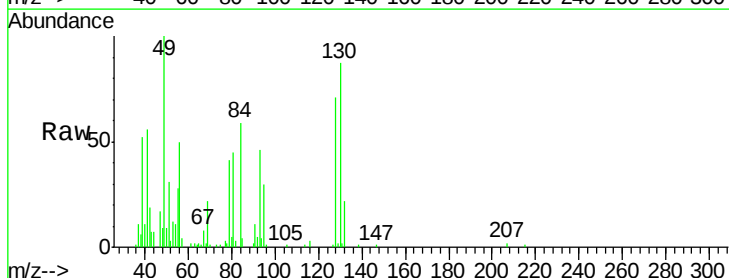
apatel
7/20/2018 11:49:00 AM

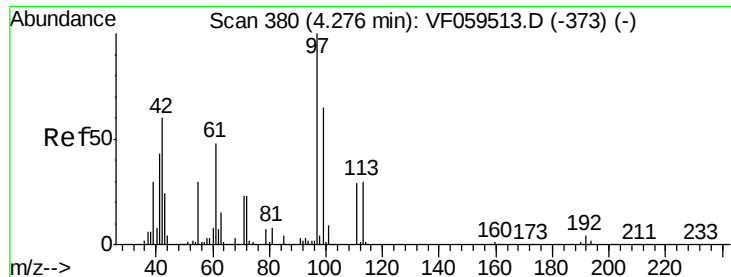


#28

Bromochloromethane
Concen: 20.43 ug/l
RT: 3.89 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	33851		
129	1.9	0.0	0.0#	
130	86.9	69.8	104.6	





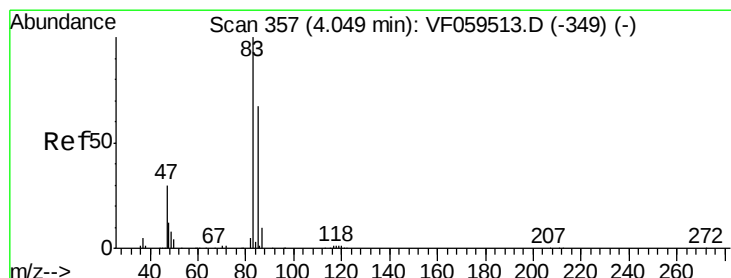
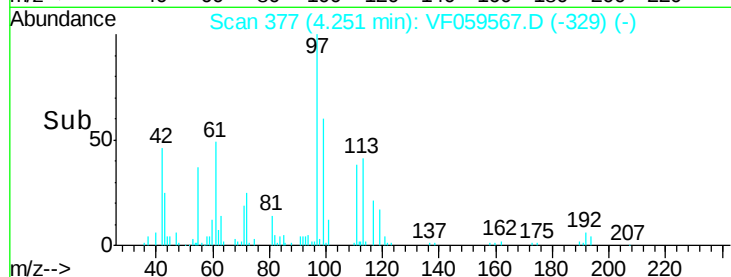
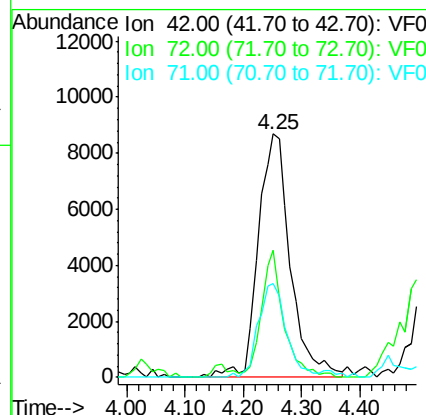
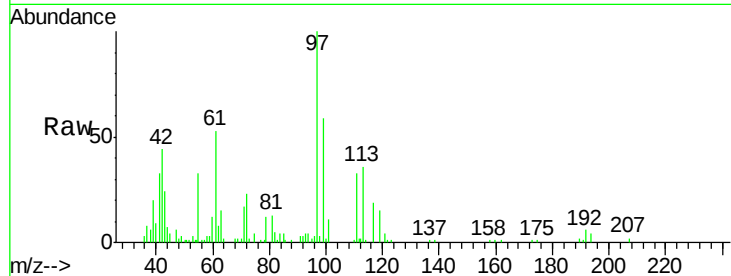
#29
Tetrahydrofuran
Concen: 83.87 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.5	28.7	43.1
71	33.4	30.8	46.2

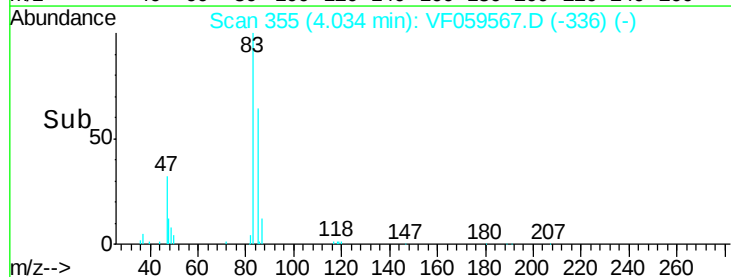
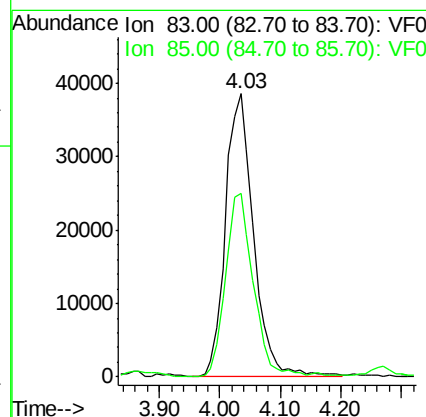
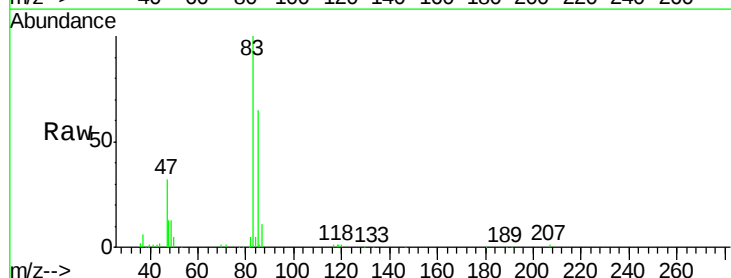
Manual Integrations
APPROVED

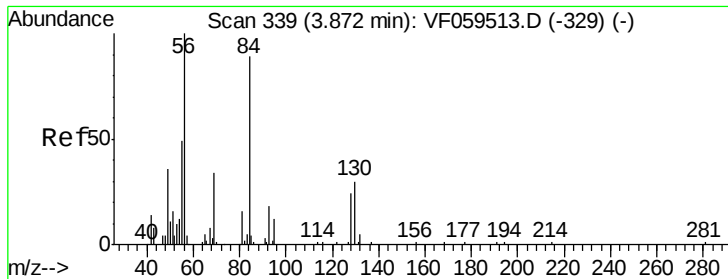
apatel
7/20/2018 11:49:00 AM



#30
Chloroform
Concen: 22.96 ug/l
RT: 4.03 min Scan# 355
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	53.2	79.8





#31

Cyclohexane

Concen: 26.53 ug/l

RT: 3.86 min Scan# 337

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

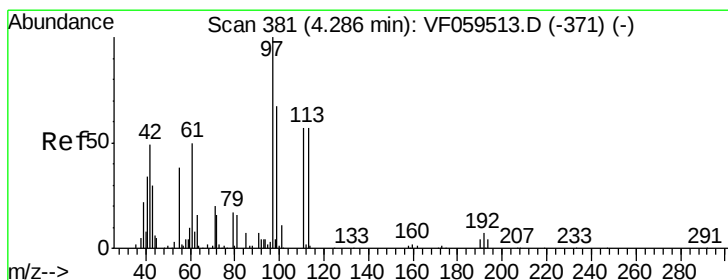
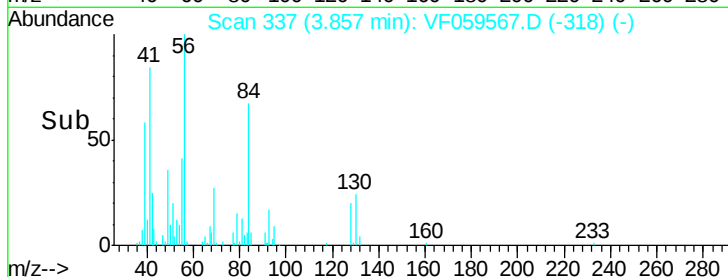
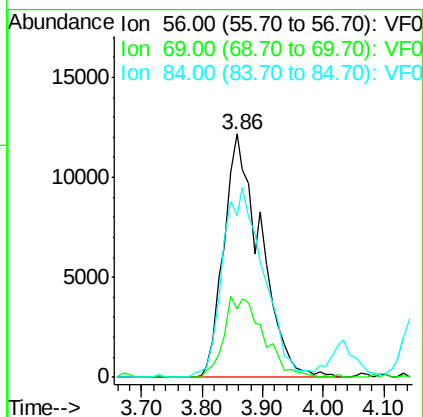
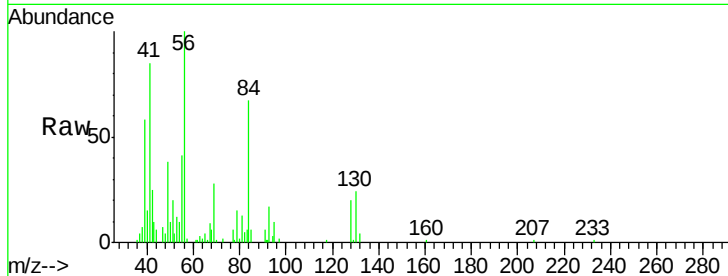
ClientSampleId :

VF0719SBS02

Tot Ion:	56	Resp:	51722
Ion Ratio	Lower	Upper	
56	100		
69	28.0	27.6	41.4
84	66.6	71.4	107.2#

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#32

1,1,1-Trichloroethane

Concen: 29.99 ug/l

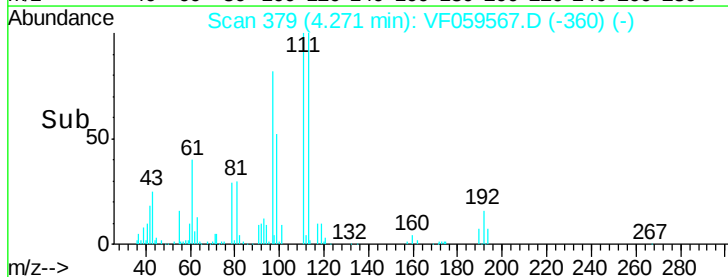
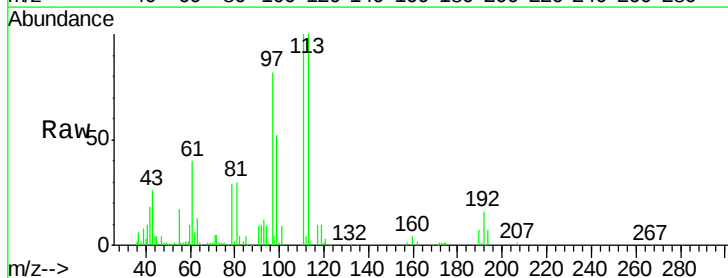
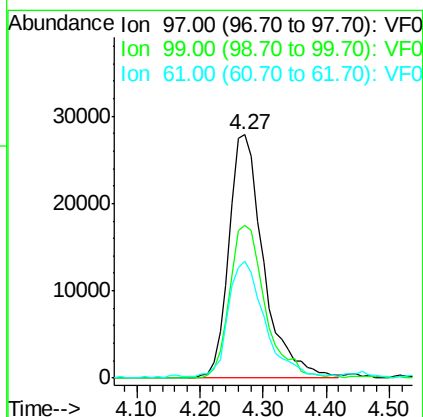
RT: 4.27 min Scan# 379

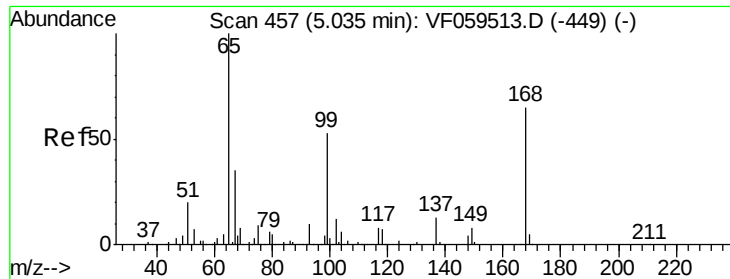
Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion:	97	Resp:	105954
Ion Ratio	Lower	Upper	
97	100		
99	63.0	53.5	80.3
61	48.1	39.7	59.5





#33

1,2-Dichloroethane-d4

Concen: 51.12 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tot Ion: 65 Resp: 184790

Ion Ratio Lower Upper

65 100

67 44.2 0.0 91.2

Instrument :

MSVOA_F

ClientSampleId :

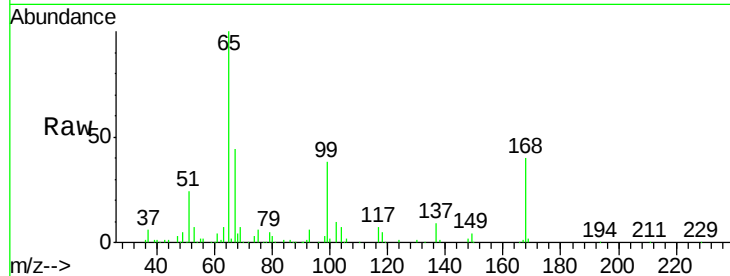
VF0719SBS02

Manual Integrations

APPROVED

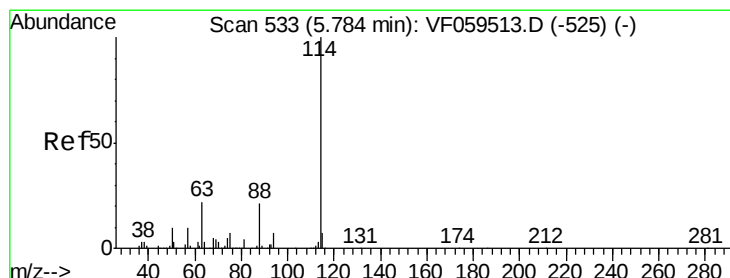
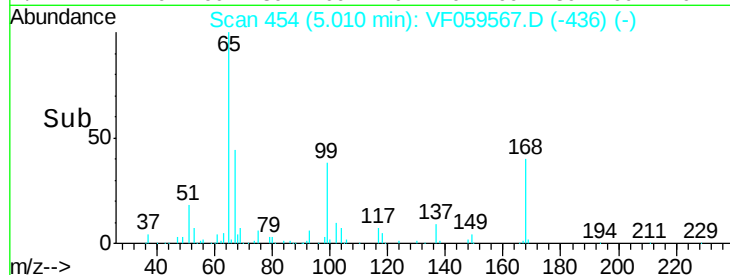
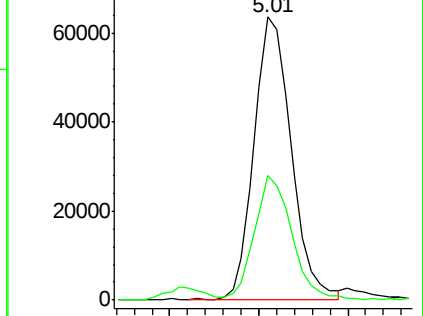
apatel

7/20/2018 11:49:00 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: 5.76 min Scan# 530

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

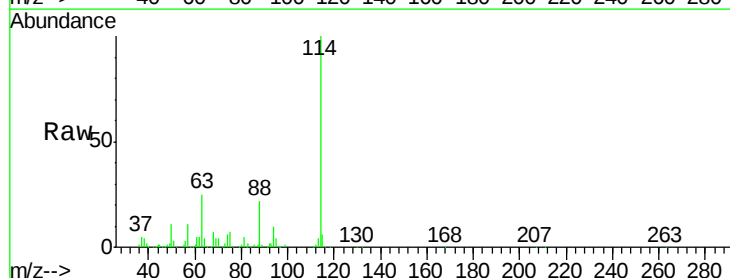
Tgt Ion: 114 Resp: 335680

Ion Ratio Lower Upper

114 100

63 24.6 0.0 44.8

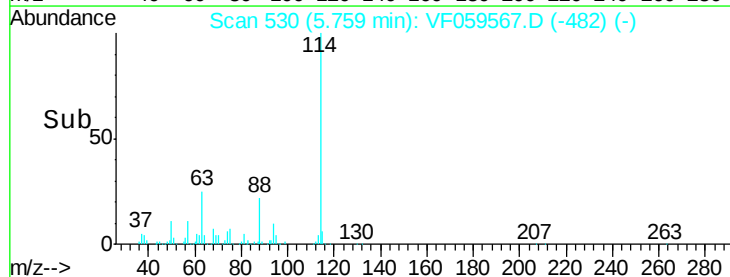
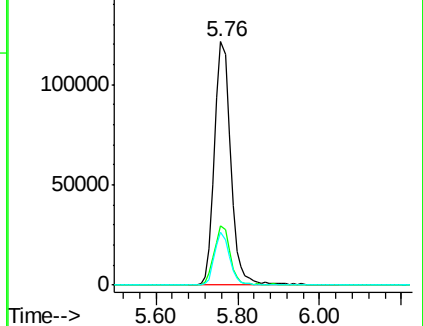
88 21.5 0.0 42.6

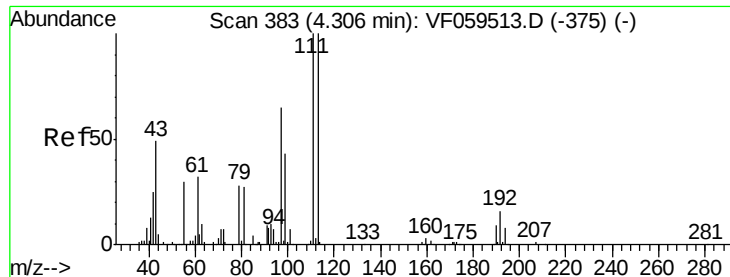


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 52.23 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

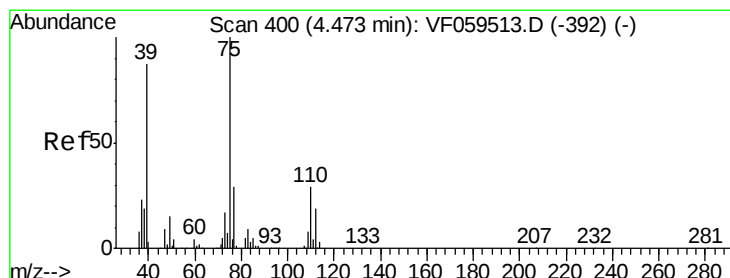
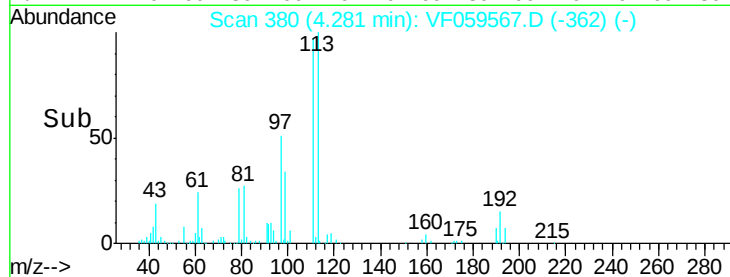
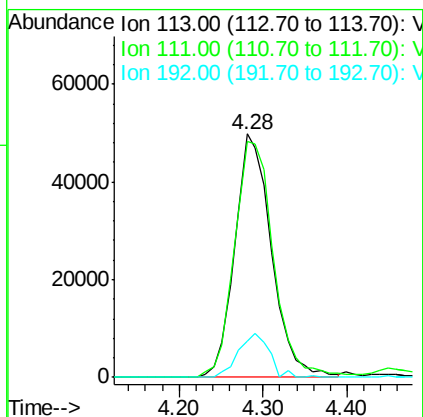
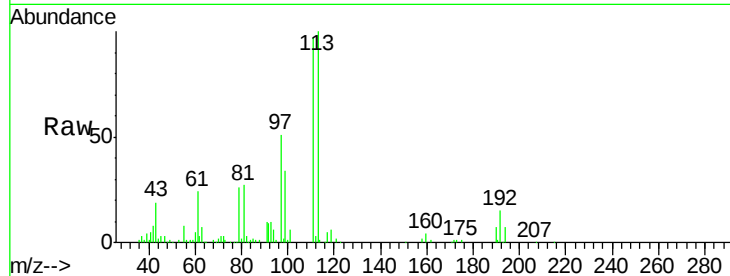
ClientSampleId :

VF0719SBS02

Tot Ion:	113	Resp:	151849
Ion Ratio	Lower	Upper	
113	100		
111	96.8	80.3	120.5
192	15.1	13.1	19.7

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#36

1,1-Dichloropropene

Concen: 22.57 ug/l

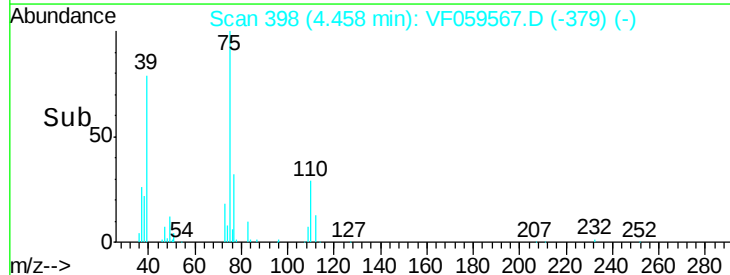
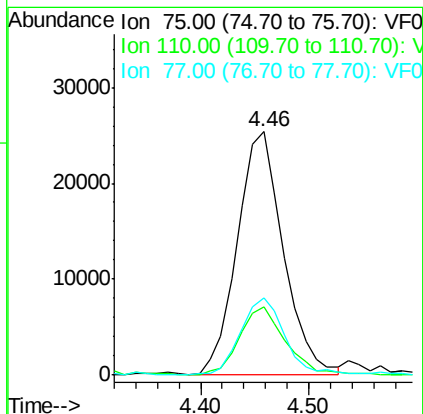
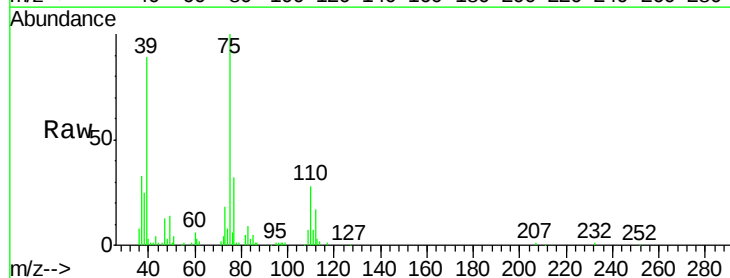
RT: 4.46 min Scan# 398

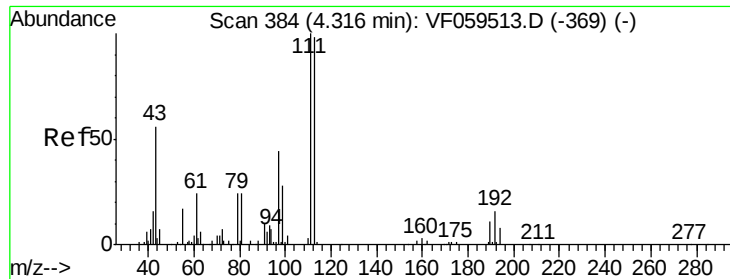
Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion:	75	Resp:	75819
Ion Ratio	Lower	Upper	
75	100		
110	28.2	14.6	43.8
77	31.9	23.7	35.5





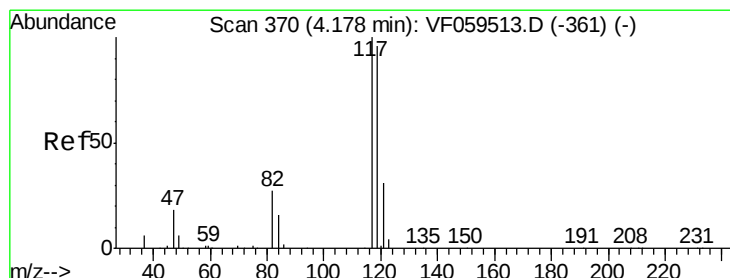
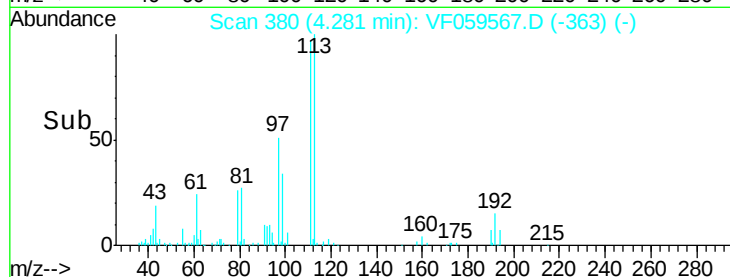
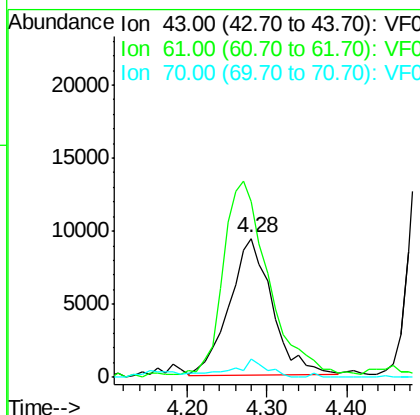
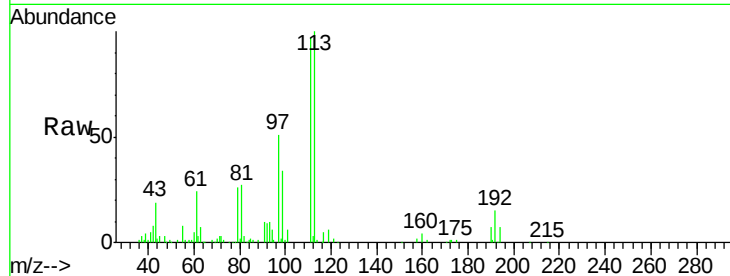
#37
Ethyl Acetate
Concen: 15.29 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.03 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	43	Resp	34879
Ion Ratio	100	Lower	Upper
43	100		
61	126.5	33.7	50.5#
70	13.0	7.4	11.0#

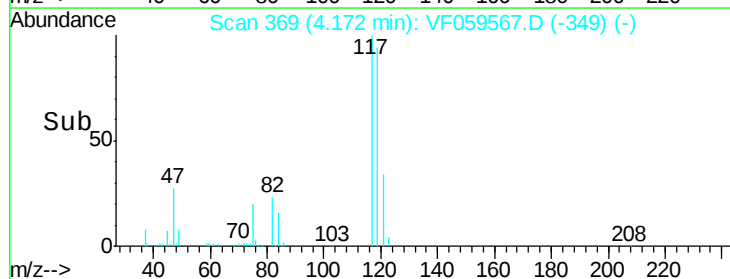
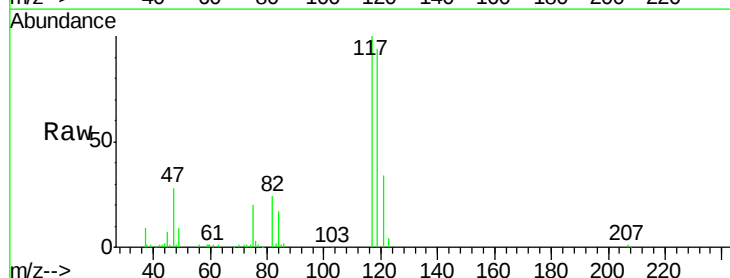
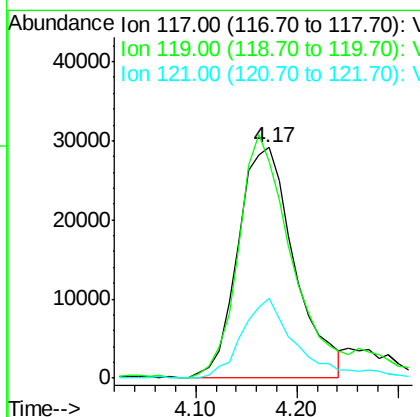
Manual Integrations
APPROVED

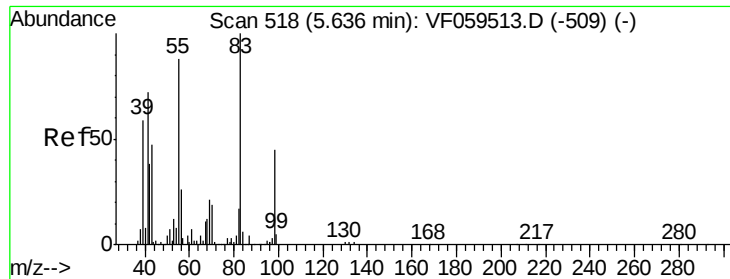
apatel
7/20/2018 11:49:00 AM



#38
Carbon Tetrachloride
Concen: 29.40 ug/l m
RT: 4.17 min Scan# 369
Delta R.T. -0.01 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	117	Resp	113188
Ion Ratio	100	Lower	Upper
117	100		
119	93.8	77.6	116.4
121	34.4	24.9	37.3





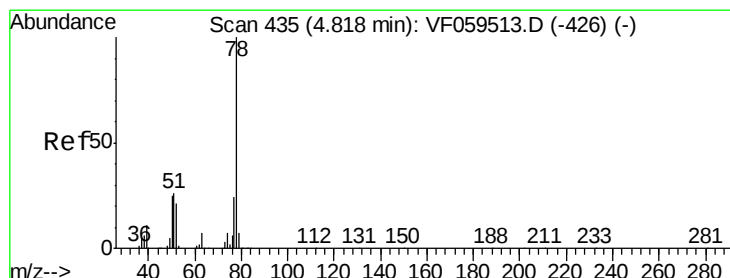
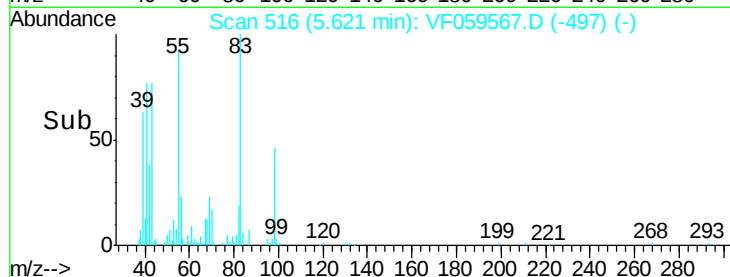
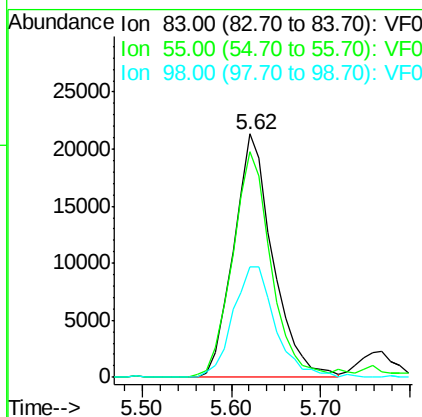
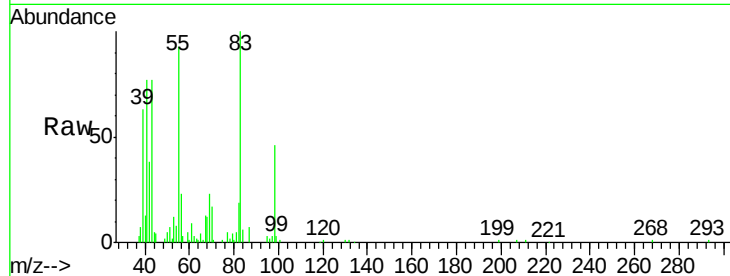
#39
Methvlcvclohexane
Concen: 25.54 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	92.8	70.2	105.4
98	45.5	36.2	54.2

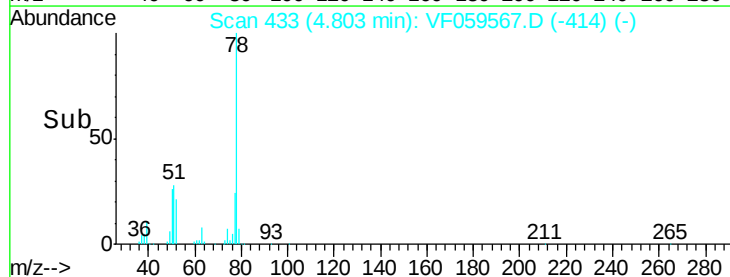
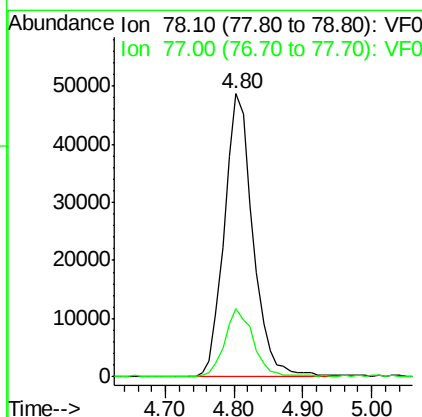
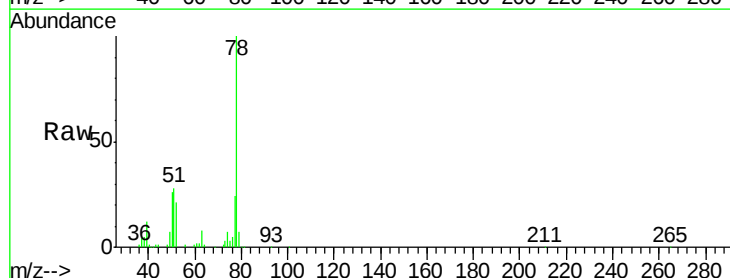
Manual Integrations
APPROVED

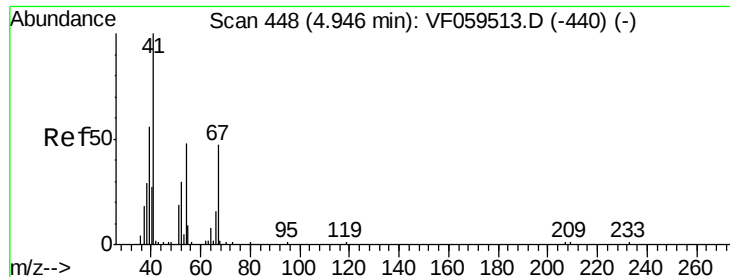
apatel
7/20/2018 11:49:00 AM



#40
Benzene
Concen: 21.56 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.4	29.0





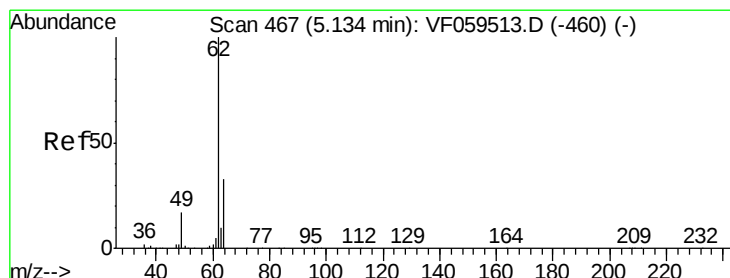
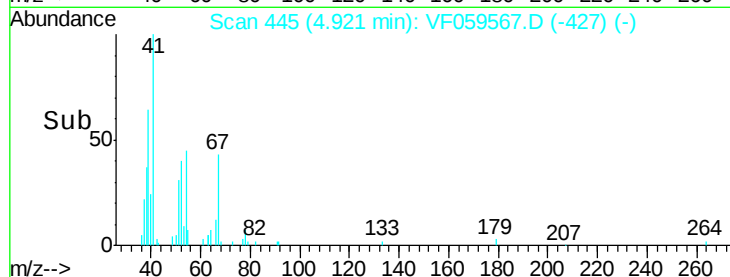
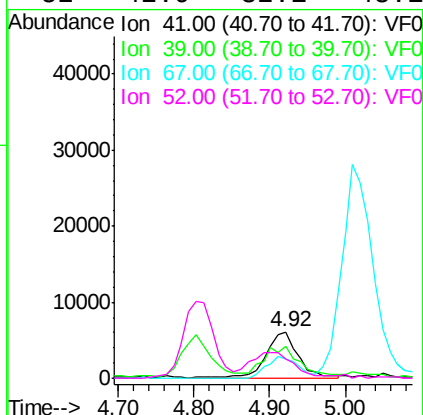
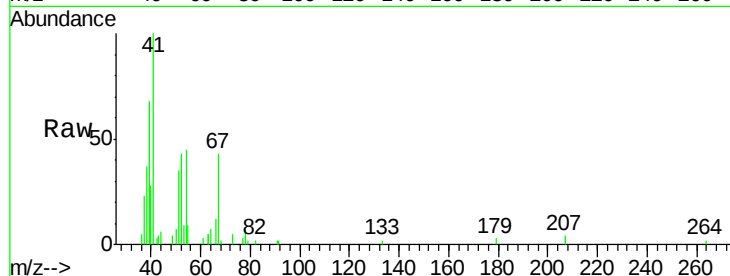
#41
Methacrylonitrile
Concen: 18.73 ug/l
RT: 4.92 min Scan# 445
Delta R.T. -0.03 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	68.4	49.4	74.0
67	42.9	37.4	56.2
52	42.9	32.1	48.1

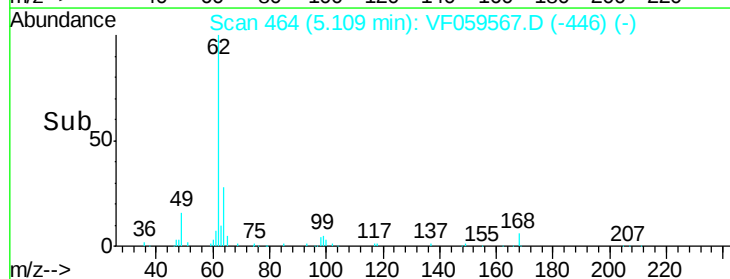
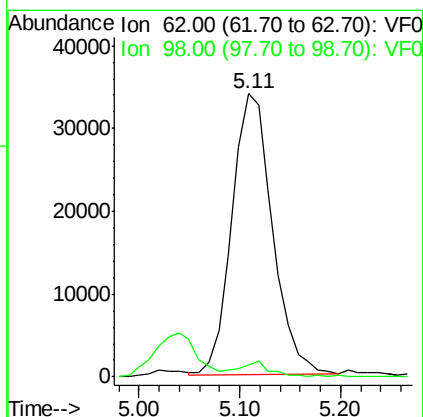
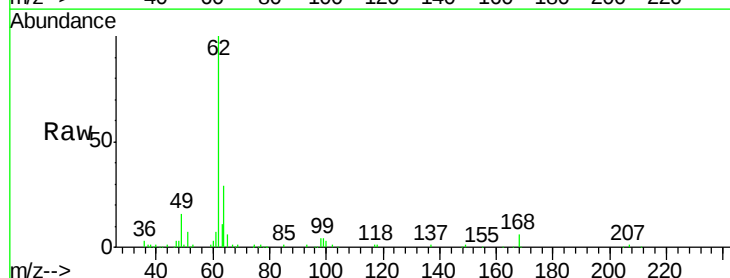
Manual Integrations
APPROVED

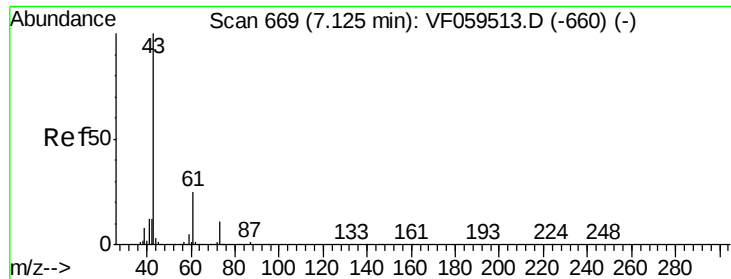
apatel
7/20/2018 11:49:00 AM



#42
1,2-Dichloroethane
Concen: 22.17 ug/l
RT: 5.11 min Scan# 464
Delta R.T. -0.03 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.3	0.0	9.6





#43

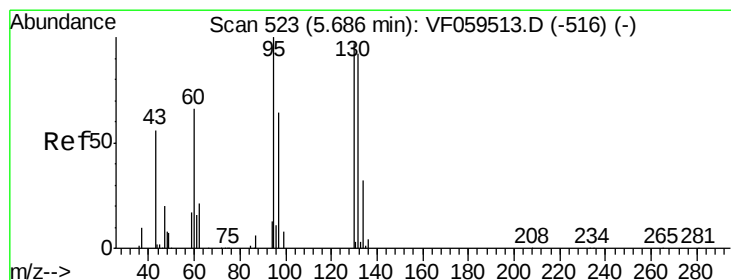
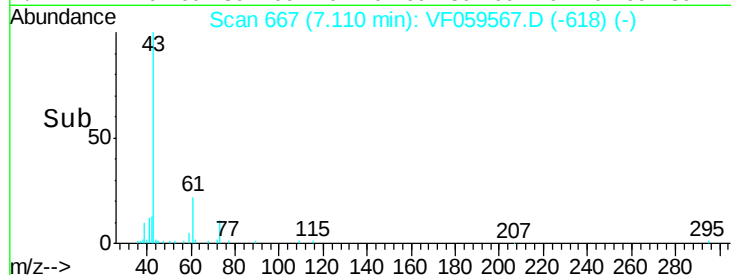
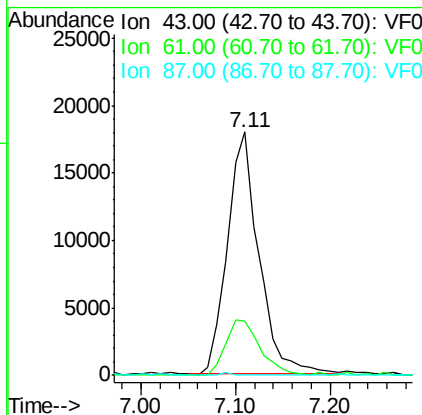
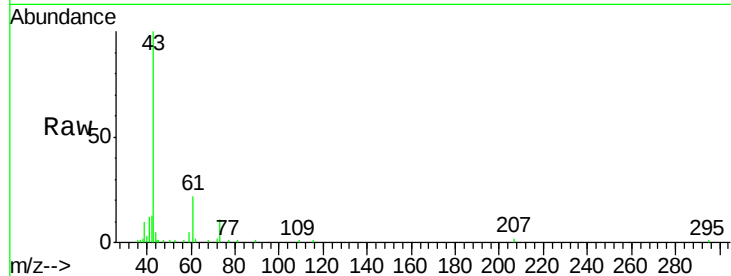
Isopropyl Acetate
 Concen: 17.03 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.1	20.3	30.5
87	0.0	0.4	0.6

Manual Integrations
 APPROVED

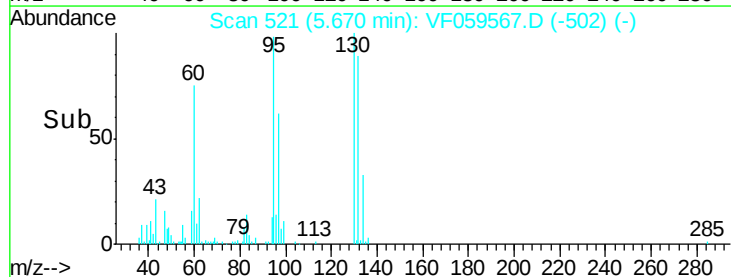
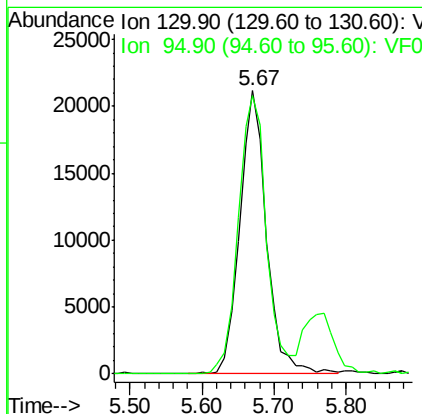
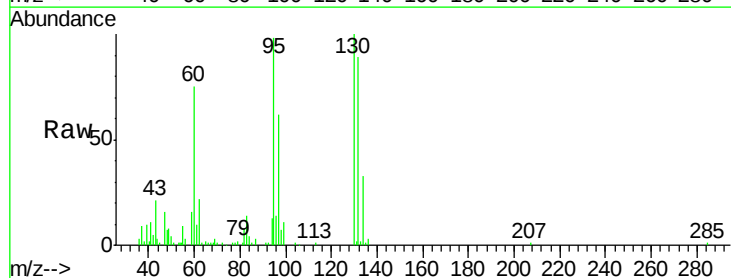
apatel
 7/20/2018 11:49:00 AM

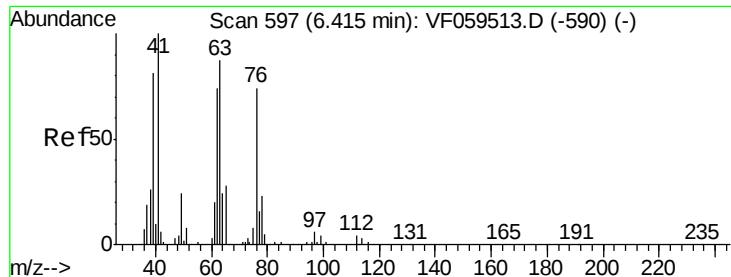


#44

Trichloroethene
 Concen: 22.69 ug/l
 RT: 5.67 min Scan# 521
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	206.6





#45

1,2-Dichloropropane

Concen: 21.38 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 63 Resp: 38676

Ion Ratio Lower Upper

63 100

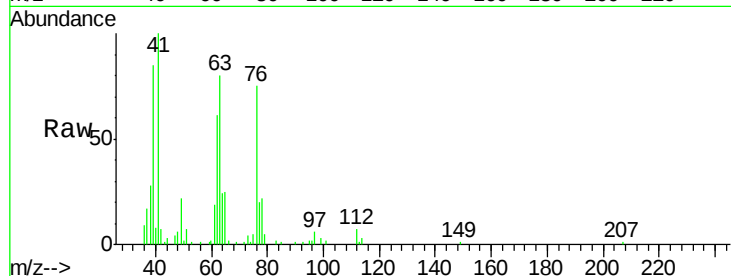
65 30.7 26.1 39.1

Manual Integrations

APPROVED

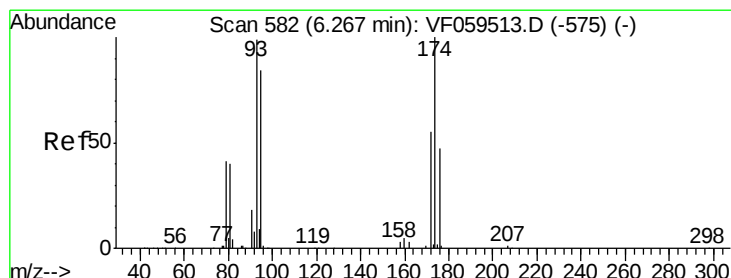
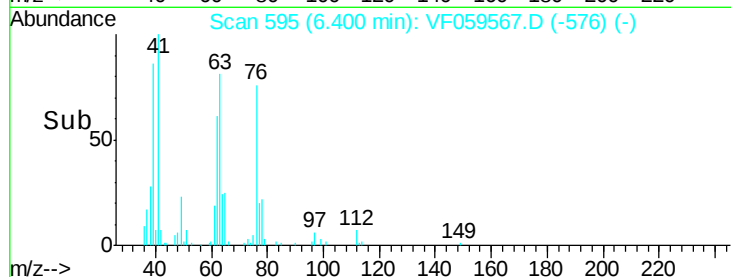
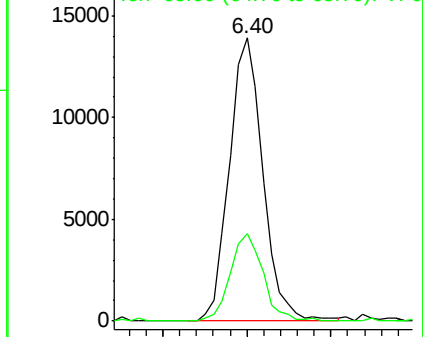
apatel

7/20/2018 11:49:00 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 21.39 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

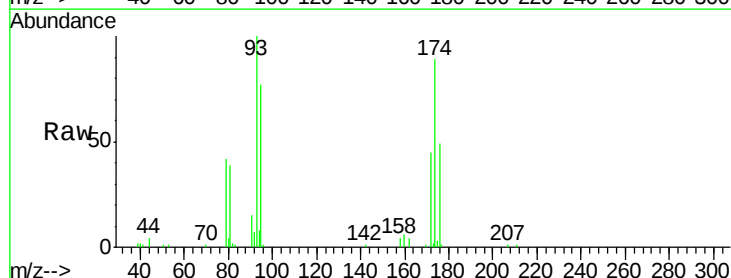
Tgt Ion: 93 Resp: 35250

Ion Ratio Lower Upper

93 100

95 76.9 68.3 102.5

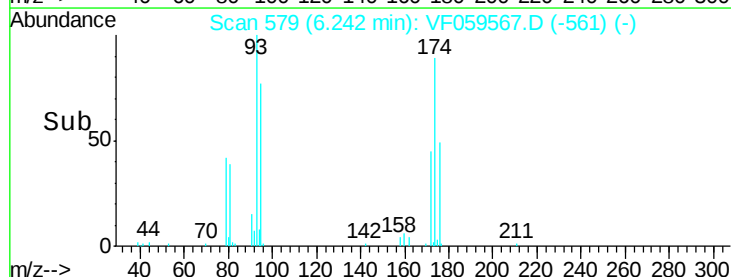
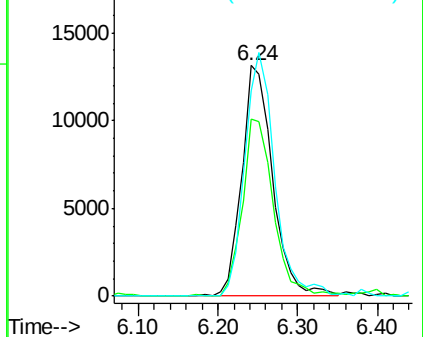
174 88.8 81.2 121.8

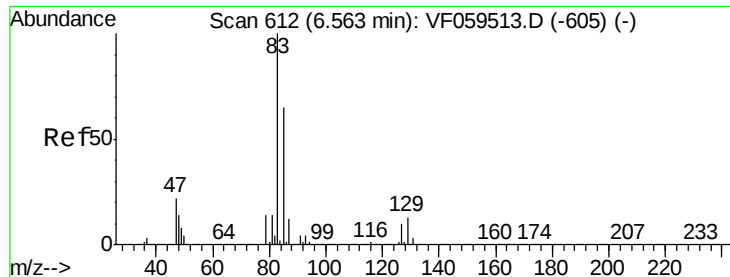


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 21.78 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

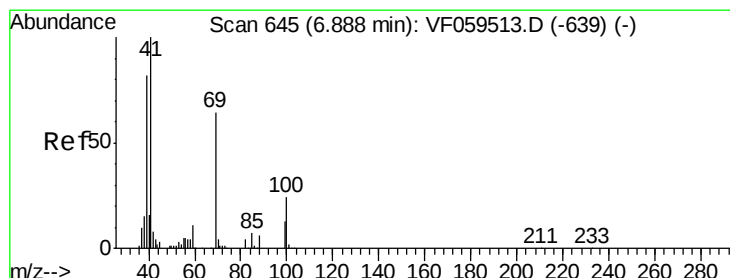
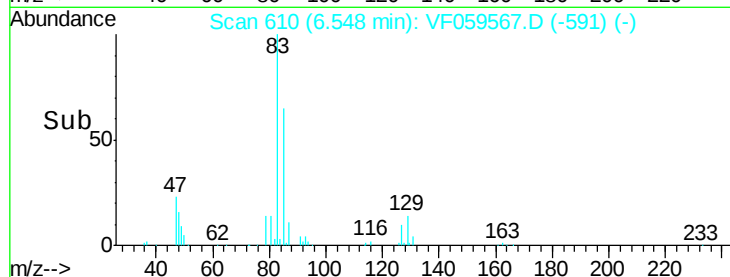
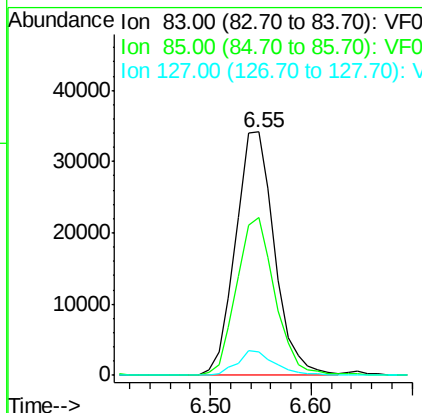
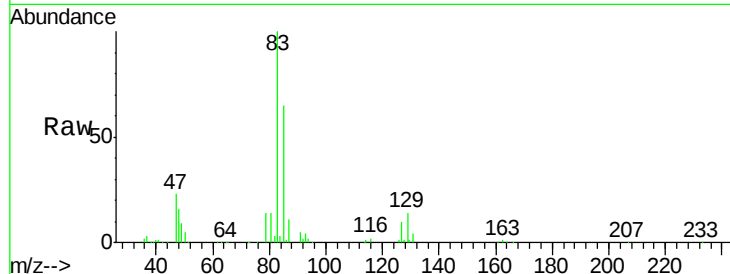
ClientSampleId :

VF0719SBS02

Tot Ion:	83	Resp:	92364
Ion Ratio	Lower	Upper	
83	100		
85	65.1	52.4	78.6
127	9.7	8.2	12.4

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#48

Methyl methacrylate

Concen: 17.76 ug/l

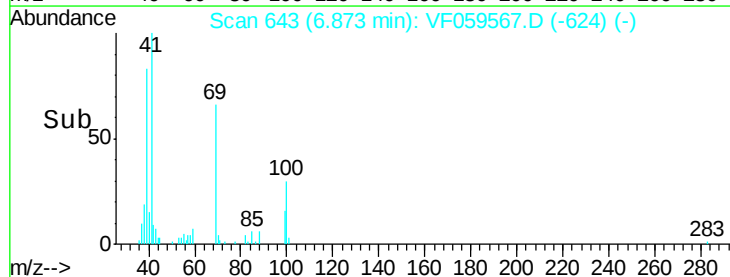
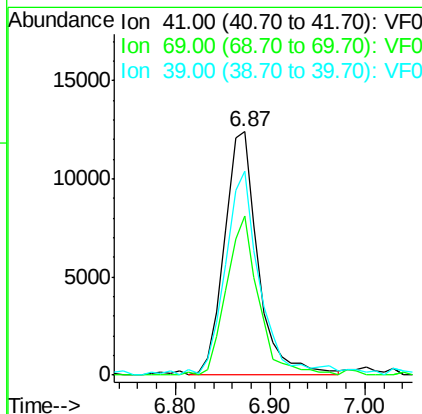
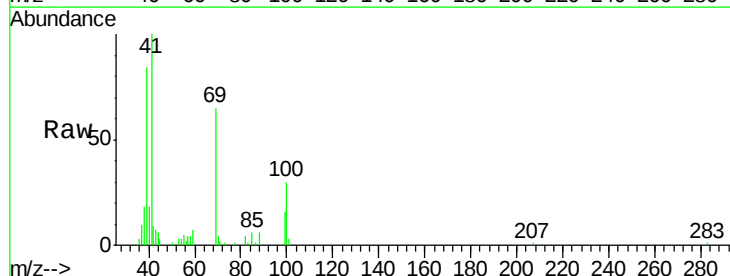
RT: 6.87 min Scan# 643

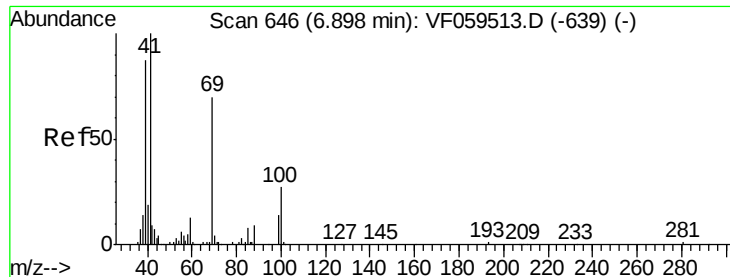
Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion:	41	Resp:	30631
Ion Ratio	Lower	Upper	
41	100		
69	65.3	51.3	76.9
39	83.9	65.3	97.9





#49

1,4-Dioxane

Concen: 448.33 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

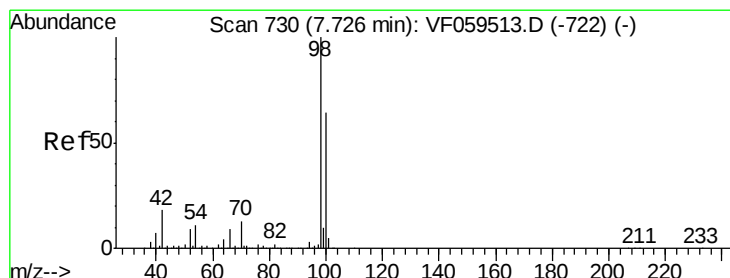
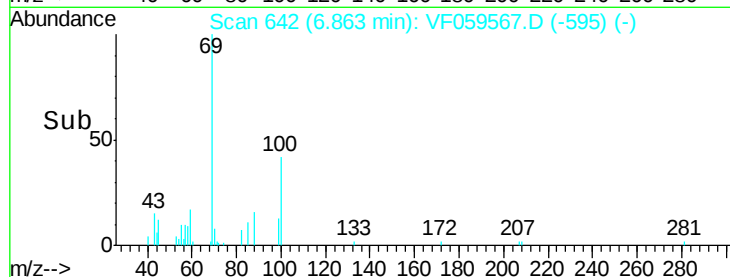
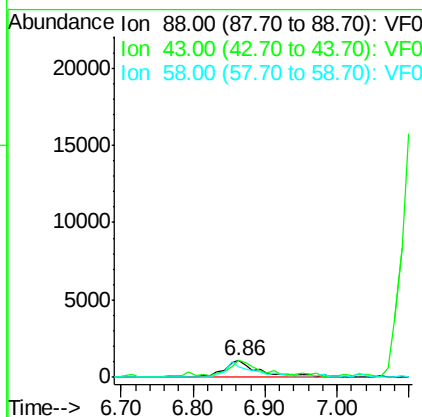
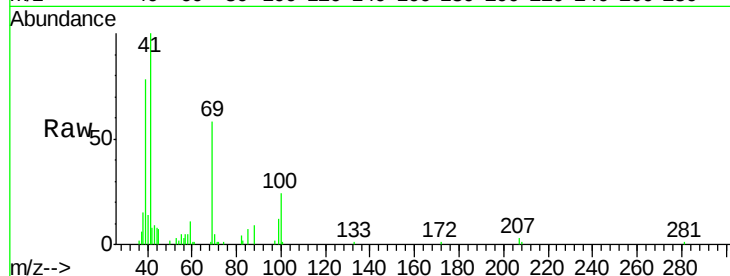
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	102.9	64.8	97.2#
58	60.0	44.1	66.1

Manual Integrations
APPROVED

apatel

7/20/2018 11:49:00 AM



#50

Toluene-d8

Concen: 48.23 ug/l

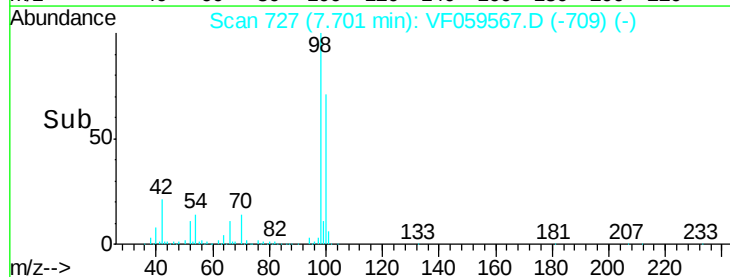
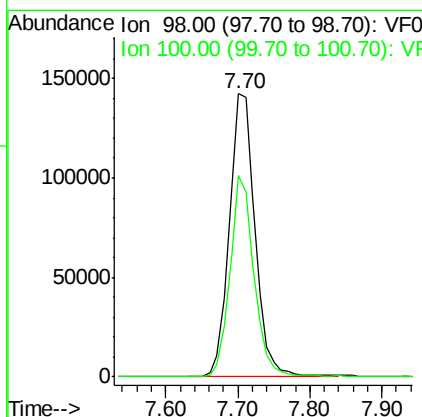
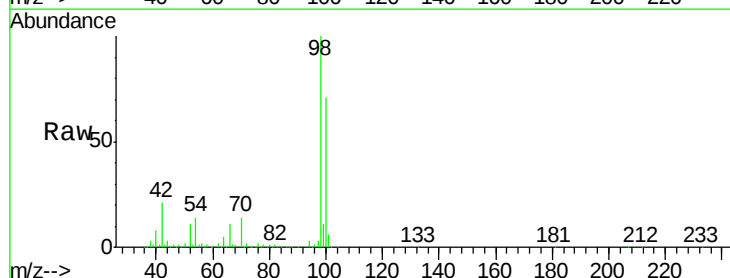
RT: 7.70 min Scan# 727

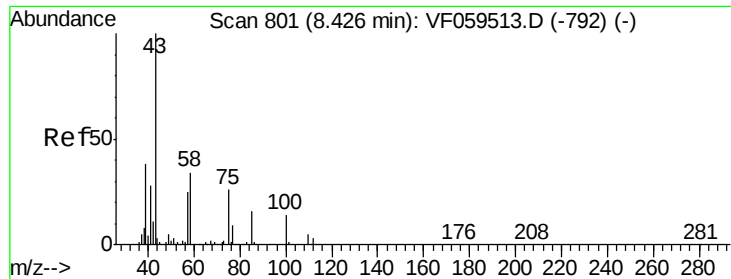
Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.3	50.9	76.3





#51

4-Methyl-2-Pentanone

Concen: 92.78 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 43 Resp: 158780

Ion Ratio Lower Upper

43 100

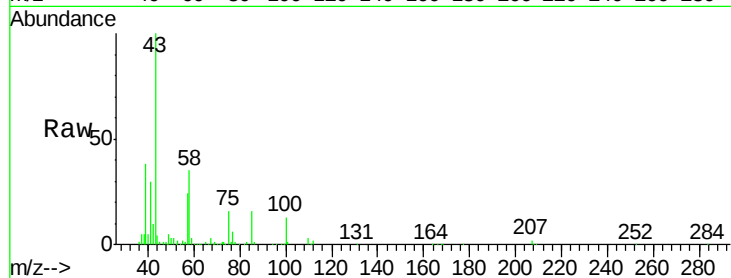
58 34.7 27.4 41.2

Manual Integrations

APPROVED

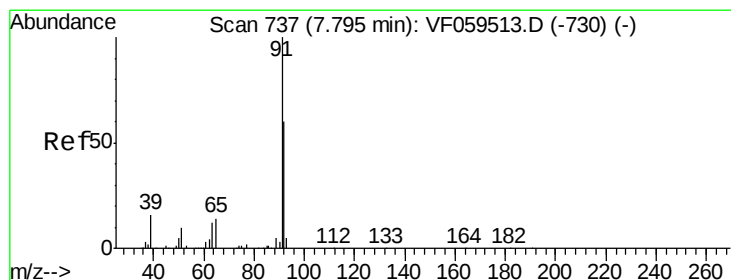
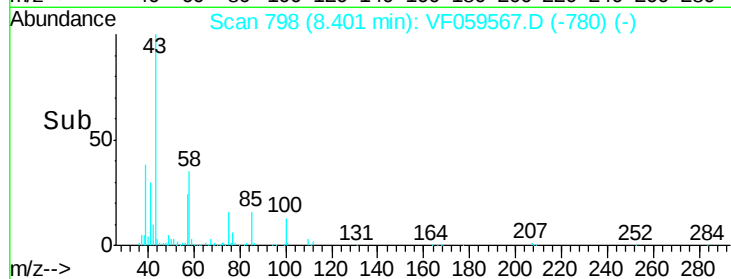
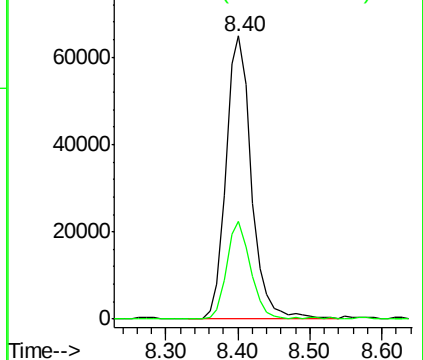
apatel

7/20/2018 11:49:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.82 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.02 min

Lab File: VF059567.D

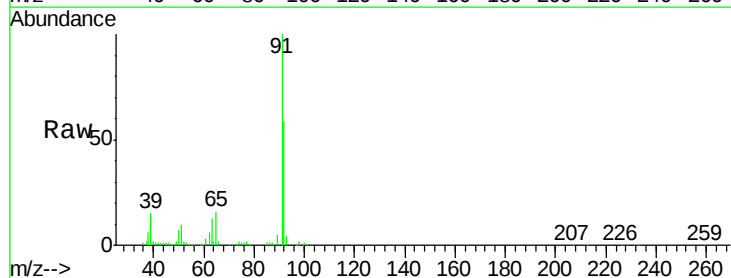
Acq: 19 Jul 2018 20:57

Tgt Ion: 92 Resp: 107860

Ion Ratio Lower Upper

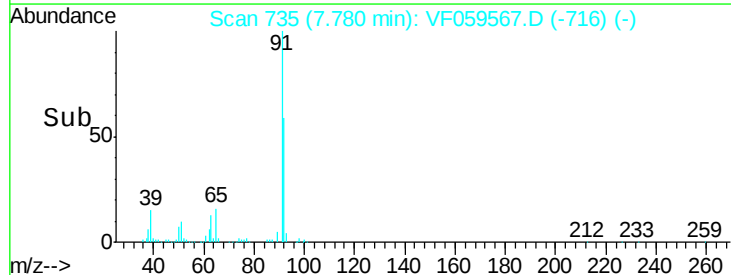
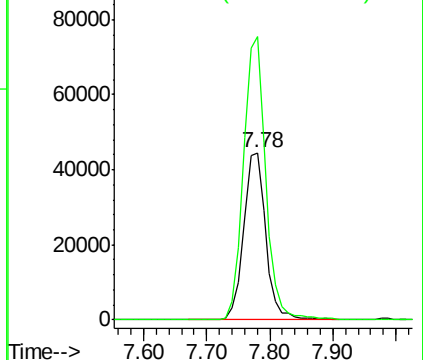
92 100

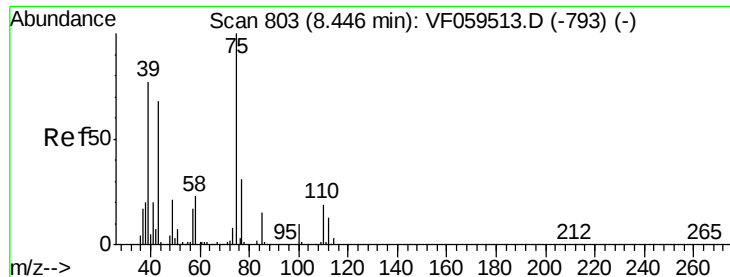
91 169.4 134.2 201.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.08 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 75 Resp: 82233

Ion Ratio Lower Upper

75 100

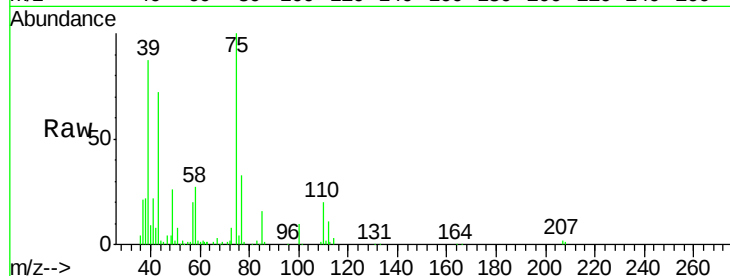
77 32.6 25.3 37.9

Manual Integrations

APPROVED

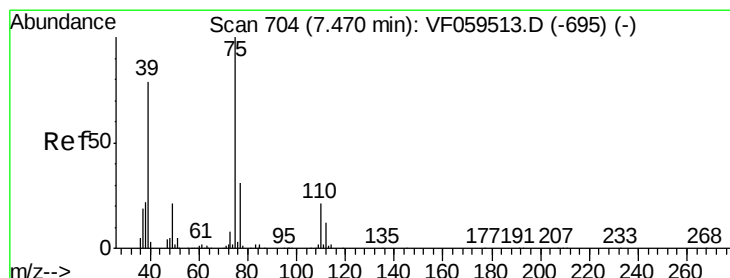
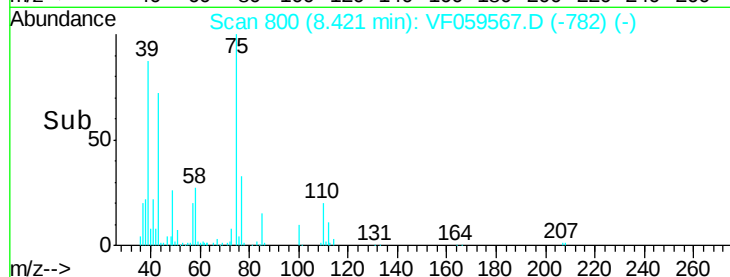
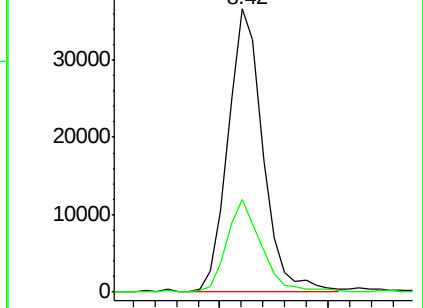
apatel

7/20/2018 11:49:00 AM



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 21.28 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

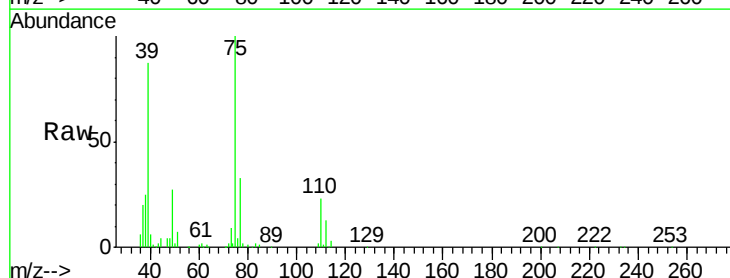
Tgt Ion: 75 Resp: 82654

Ion Ratio Lower Upper

75 100

77 32.6 25.0 37.6

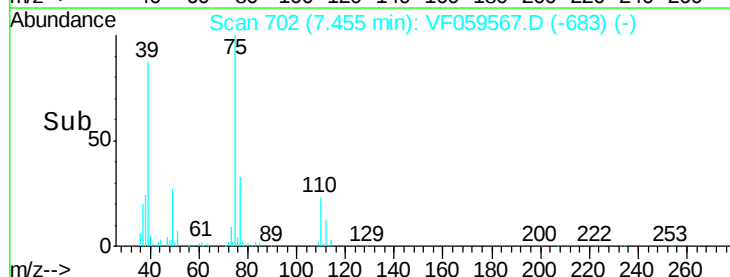
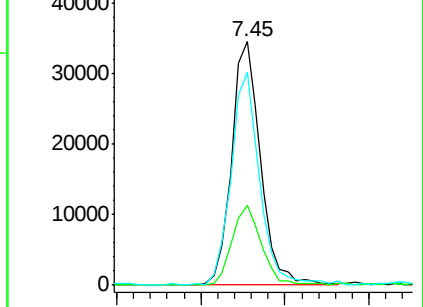
39 87.5 63.8 95.6

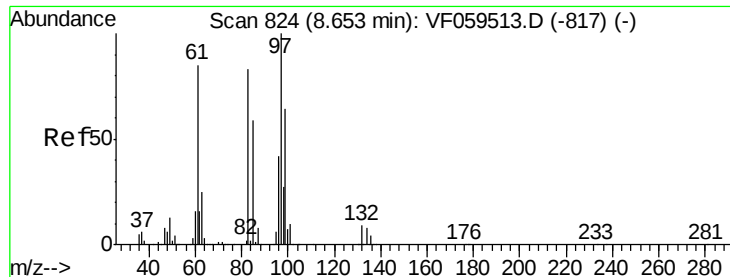


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.09 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

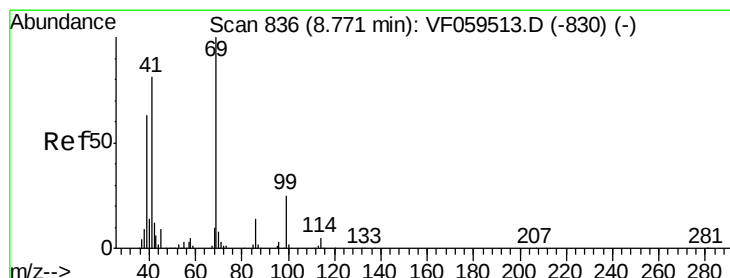
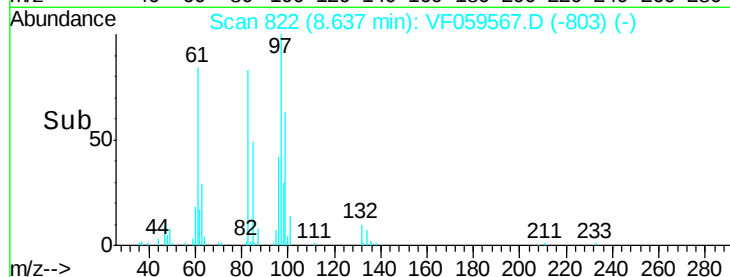
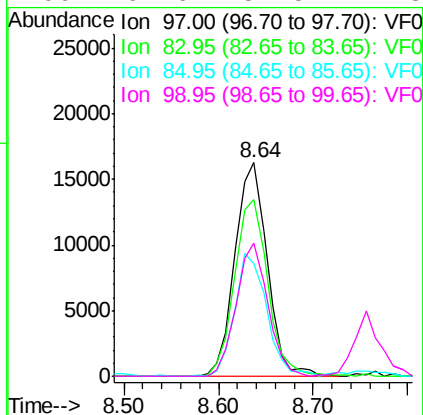
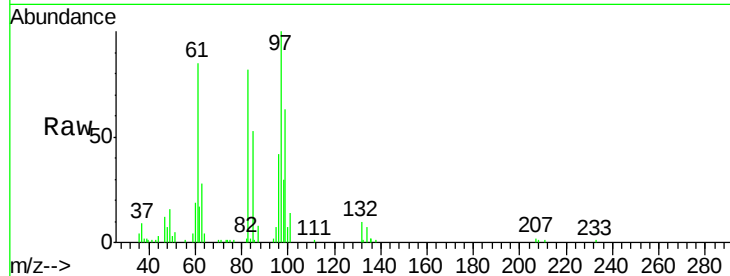
VF0719SBS02

Tot Ion:	97	Resp:	38636
Ion	Ratio	Lower	Upper
97	100		
83	82.4	66.9	100.3
85	53.0	46.9	70.3
99	62.6	51.5	77.3

Manual Integrations
APPROVED

apatel

7/20/2018 11:49:00 AM



#56

Ethyl methacrylate

Concen: 18.46 ug/l

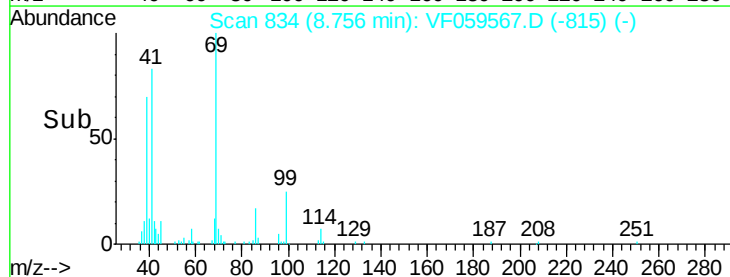
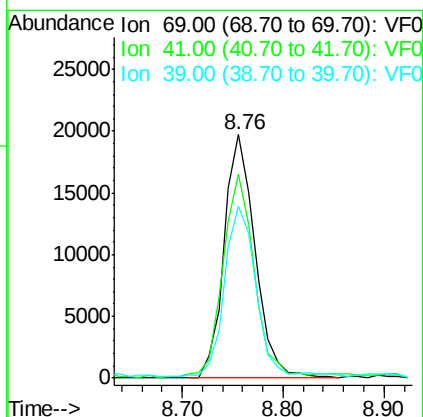
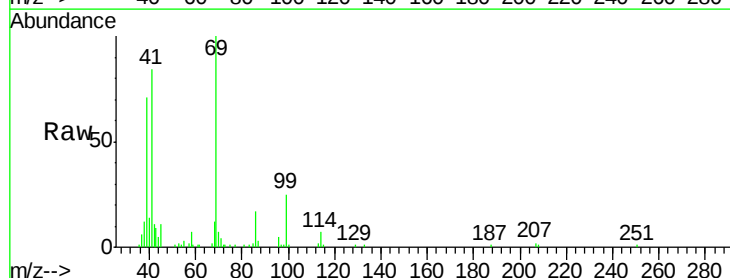
RT: 8.76 min Scan# 834

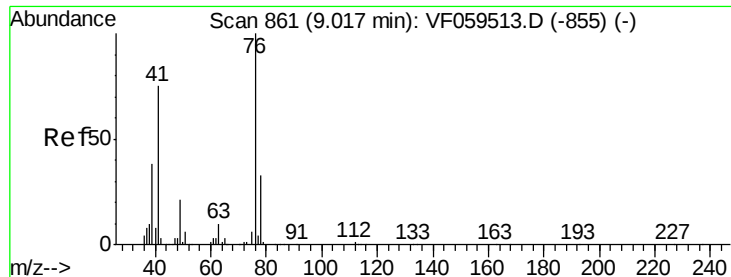
Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion:	69	Resp:	41933
Ion	Ratio	Lower	Upper
69	100		
41	83.8	65.4	98.2
39	70.6	51.0	76.4





#57

1,3-Dichloropropane

Concen: 21.39 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 76 Resp: 69268

Ion Ratio Lower Upper

76 100

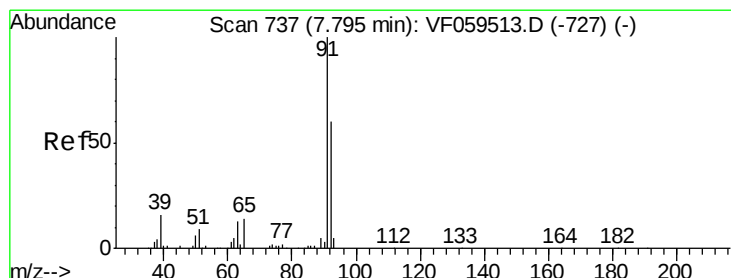
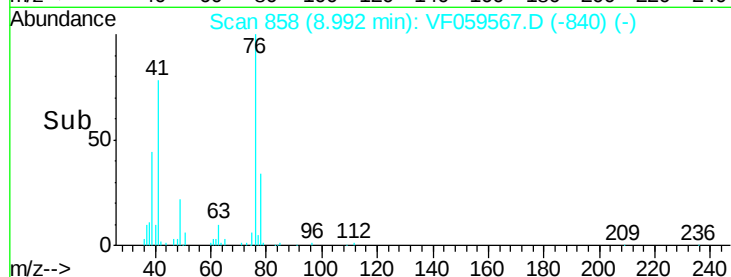
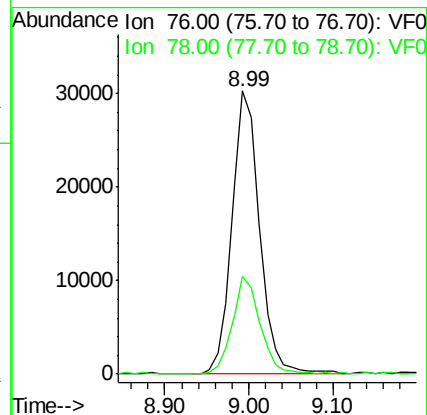
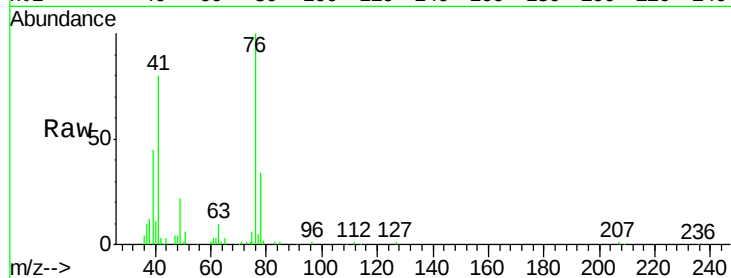
78 34.4 26.4 39.6

Manual Integrations

APPROVED

apatel

7/20/2018 11:49:00 AM



#58

2-Chloroethyl Vinyl ether

Concen: 124.27 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.03 min

Lab File: VF059567.D

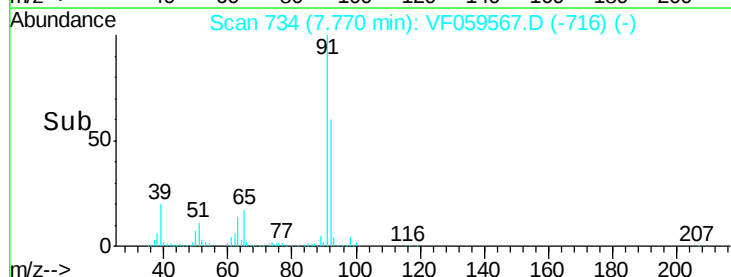
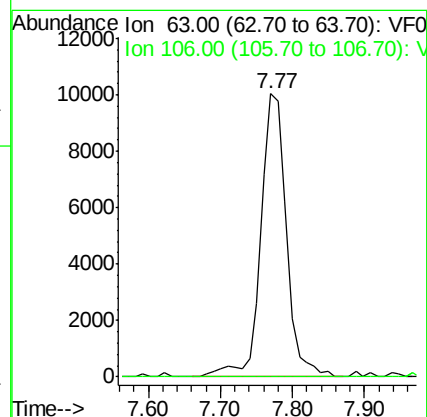
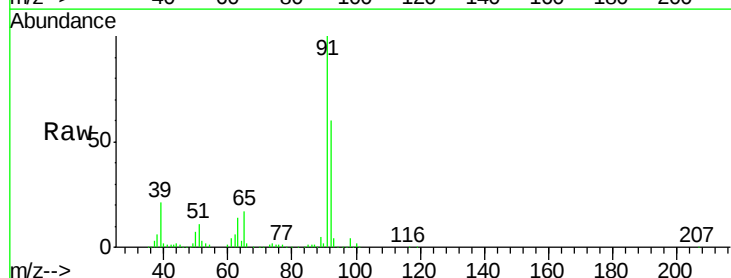
Acq: 19 Jul 2018 20:57

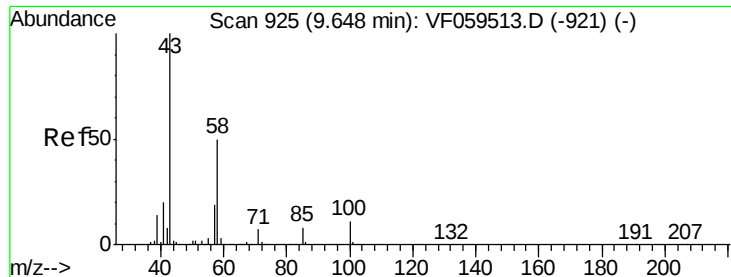
Tgt Ion: 63 Resp: 24922

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





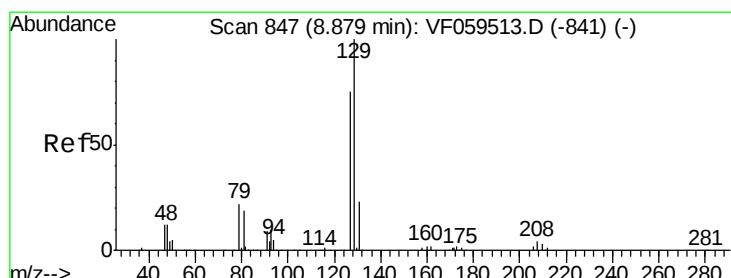
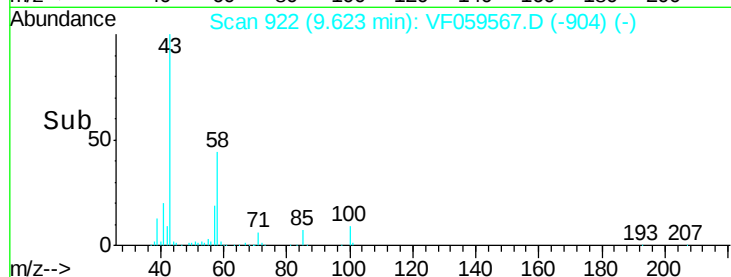
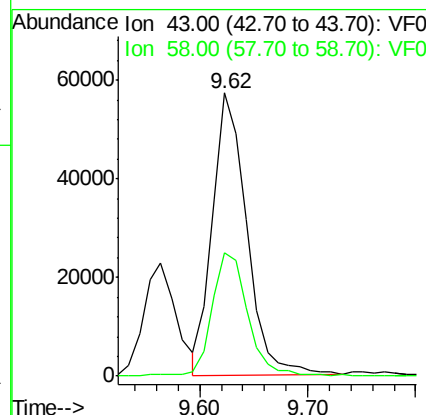
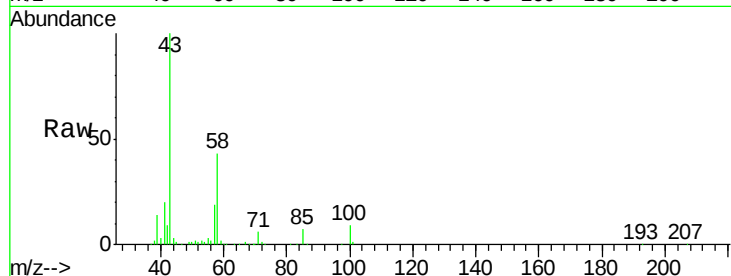
#59
2-Hexanone
Concen: 97.23 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.03 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.4	23.3	69.9

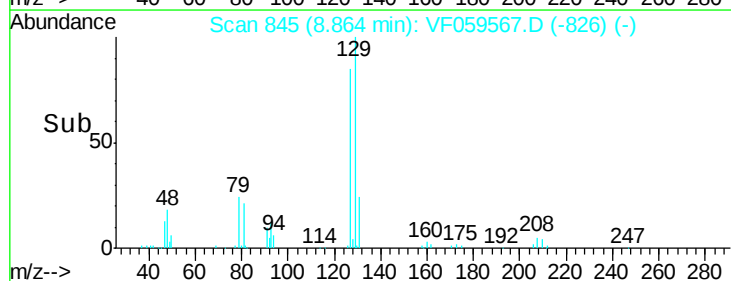
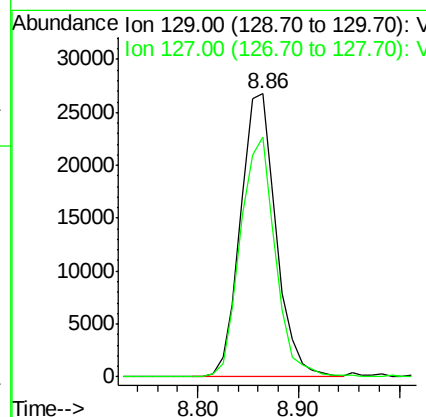
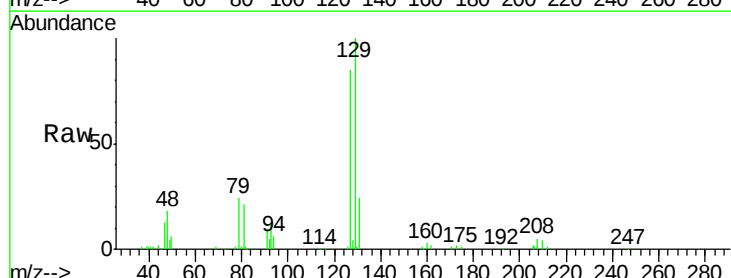
Manual Integrations
APPROVED

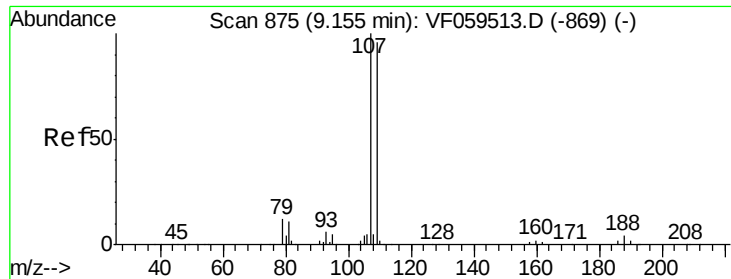
apatel
7/20/2018 11:49:00 AM



#60
Dibromochloromethane
Concen: 21.31 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
129	100		
127	84.9	37.6	112.8





#61

1,2-Dibromoethane

Concen: 21.26 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.03 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 107 Resp: 48323

Ion Ratio Lower Upper

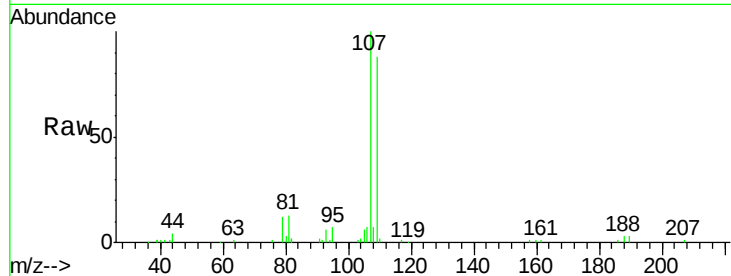
107 100

109 87.6 76.5 114.7

Manual Integrations
APPROVED

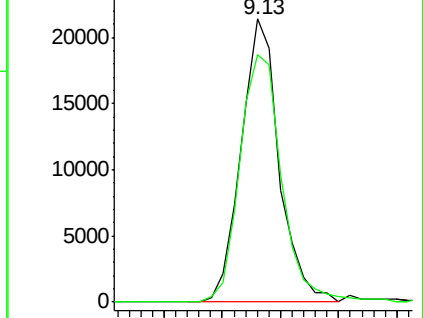
apatel

7/20/2018 11:49:00 AM

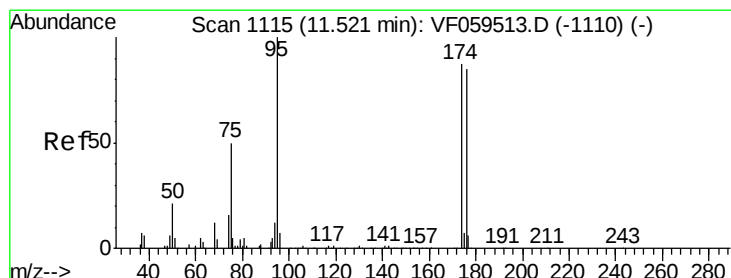
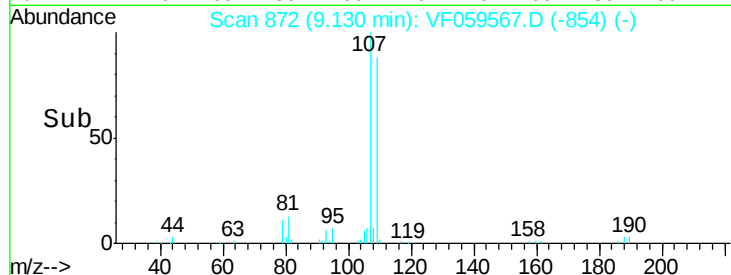


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



Time-->



#62

4-Bromofluorobenzene

Concen: 53.39 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

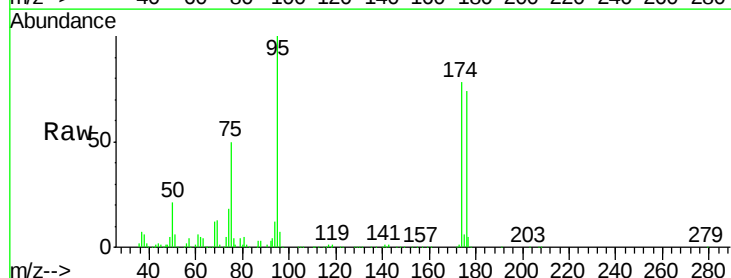
Tgt Ion: 95 Resp: 205107

Ion Ratio Lower Upper

95 100

174 77.5 0.0 174.4

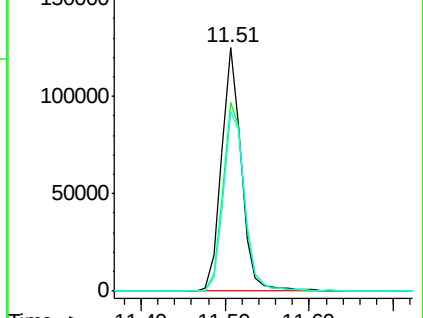
176 73.7 0.0 169.4



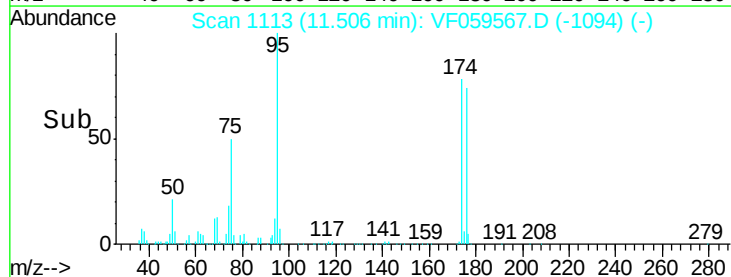
Abundance Ion 95.00 (94.70 to 95.70): VF0

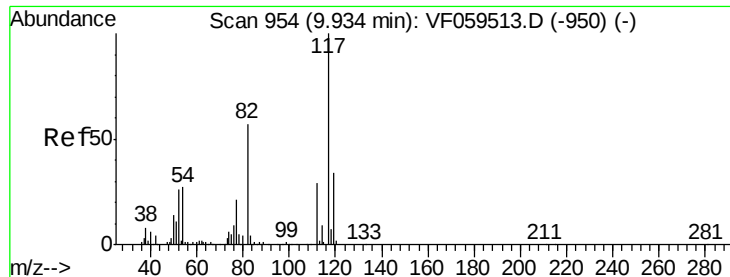
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



Time-->





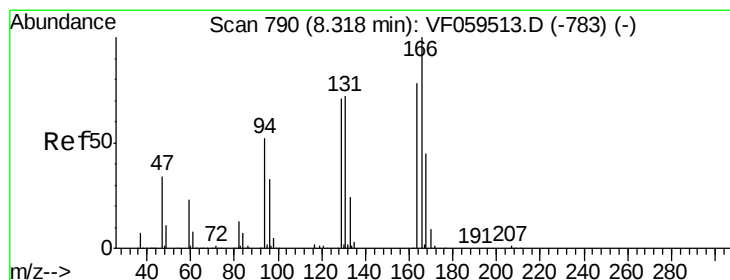
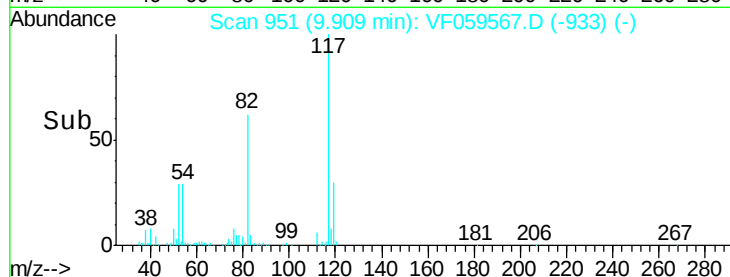
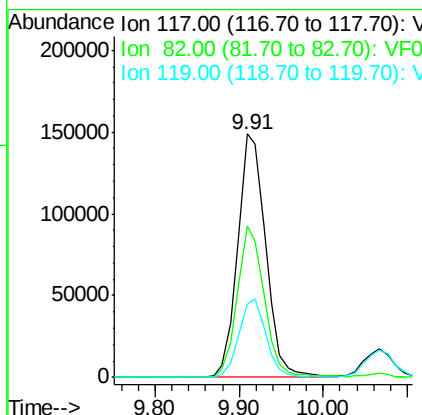
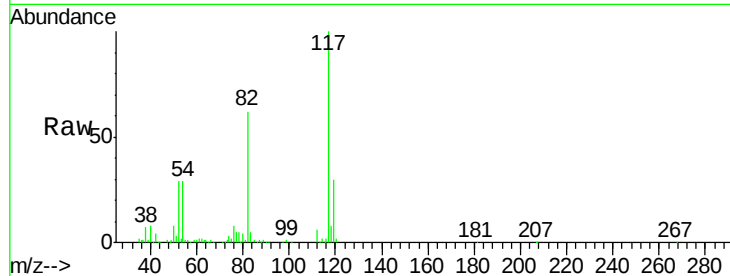
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.03 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Resp Lower	Upper
117	100		
82	62.2	46.1	69.1
119	29.9	27.2	40.8

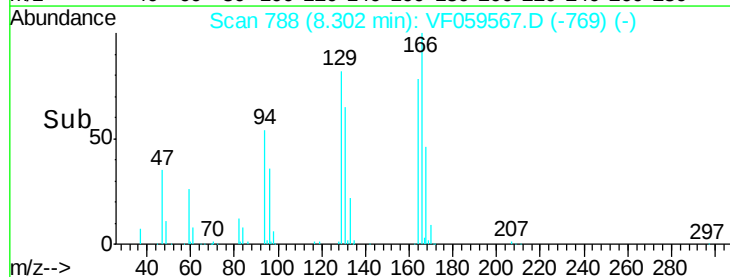
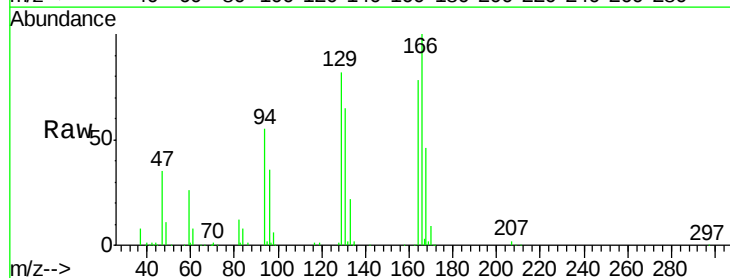
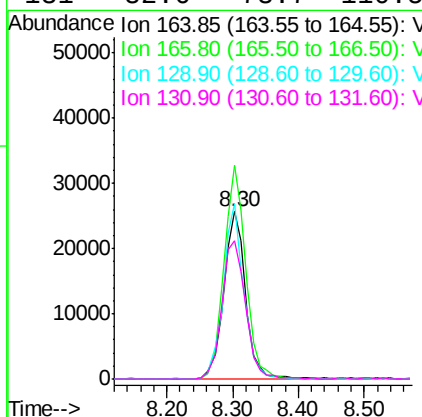
Manual Integrations
APPROVED

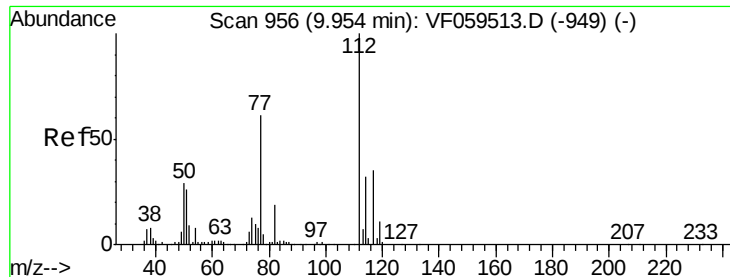
apatel
7/20/2018 11:49:00 AM



#64
Tetrachloroethene
Concen: 23.04 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Resp Lower	Upper
164	100		
166	127.6	102.3	153.5
129	104.5	72.4	108.6
131	82.6	73.7	110.5





#65

Chlorobenzene

Concen: 22.28 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion:112 Resp: 144356

Ion Ratio Lower Upper

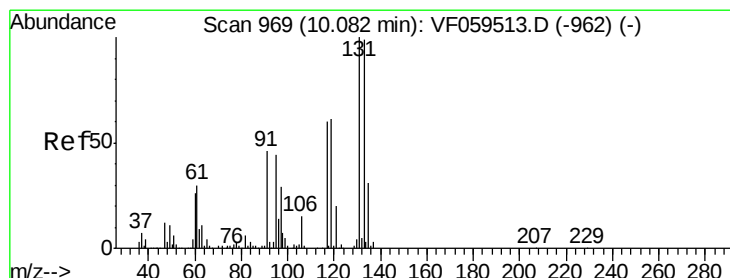
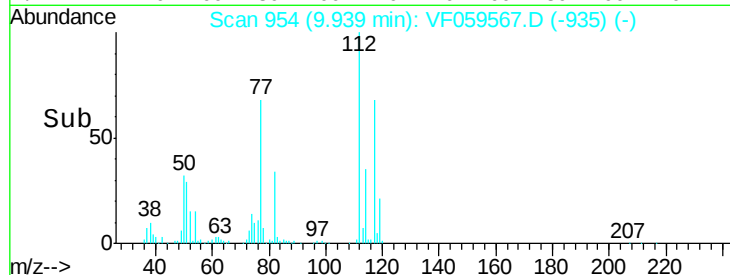
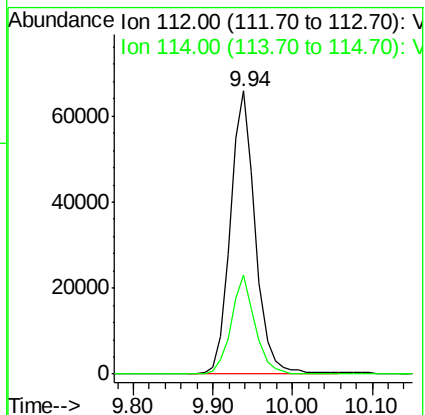
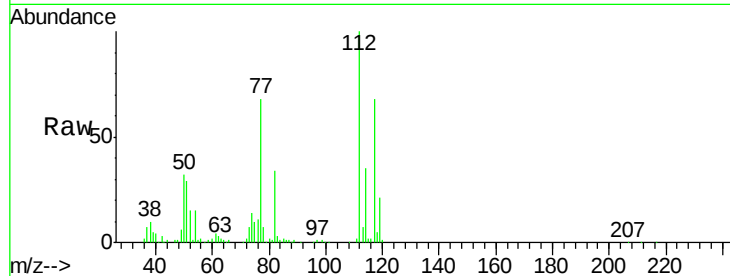
112 100

114 35.1 25.4 38.2

Manual Integrations
APPROVED

apatel

7/20/2018 11:49:00 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 21.72 ug/l

RT: 10.07 min Scan# 967

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

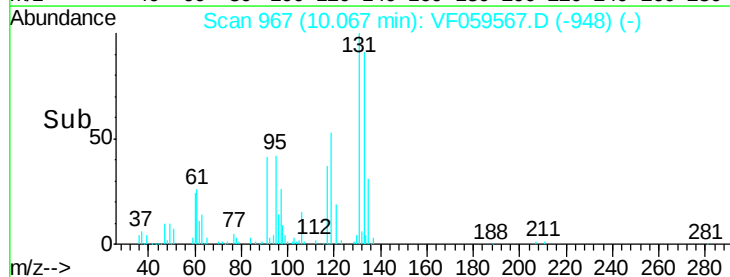
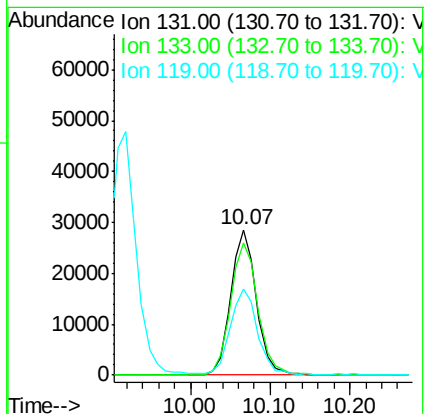
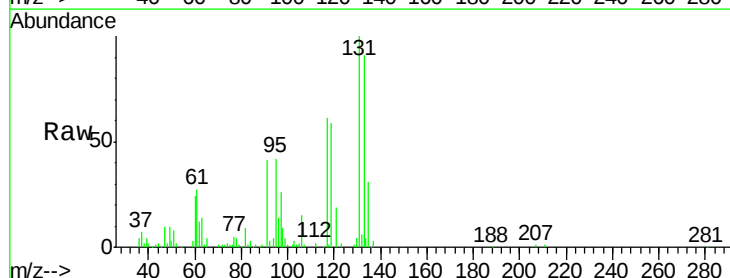
Tgt Ion:131 Resp: 64095

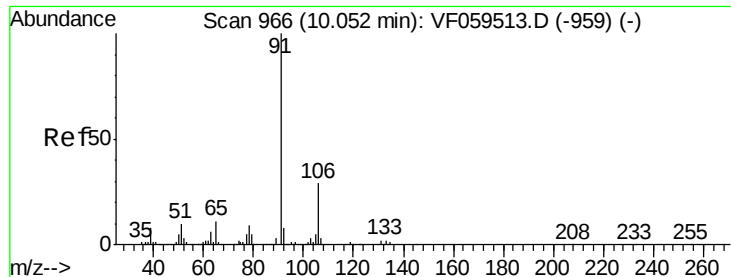
Ion Ratio Lower Upper

131 100

133 91.1 49.6 148.8

119 59.1 31.4 94.3





#67

Ethyl Benzene

Concen: 22.94 ug/l

RT: 10.04 min Scan# 964

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 91 Resp: 264615

Ion Ratio Lower Upper

91 100

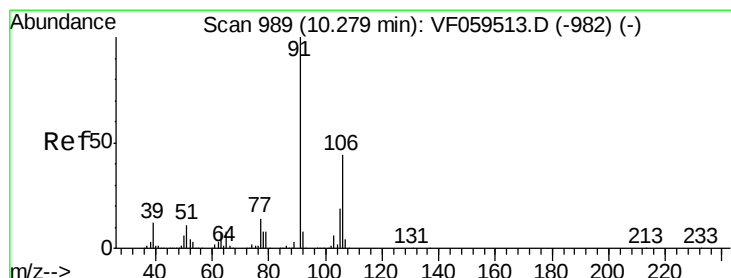
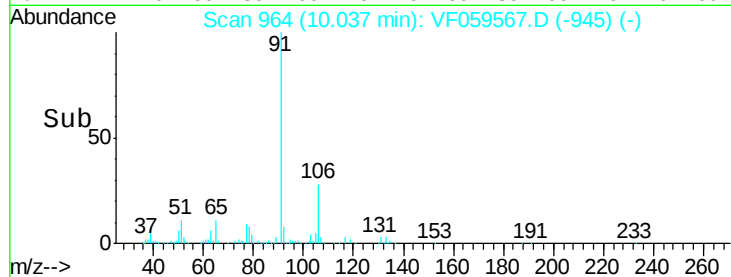
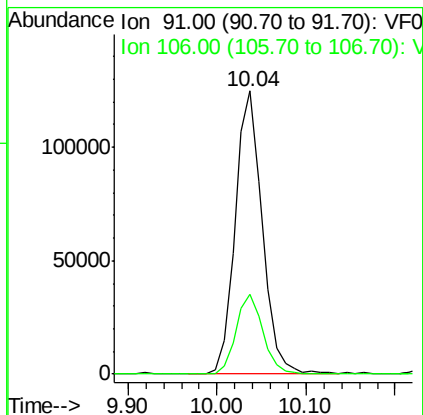
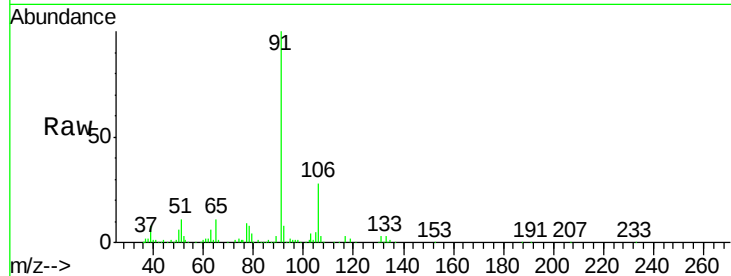
106 28.4 23.4 35.2

Manual Integrations

APPROVED

apatel

7/20/2018 11:49:00 AM



#68

m/p-Xylenes

Concen: 45.39 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.02 min

Lab File: VF059567.D

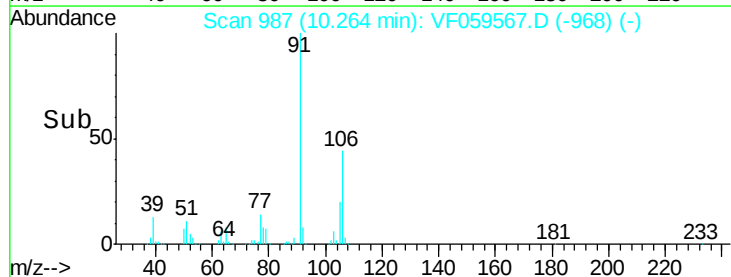
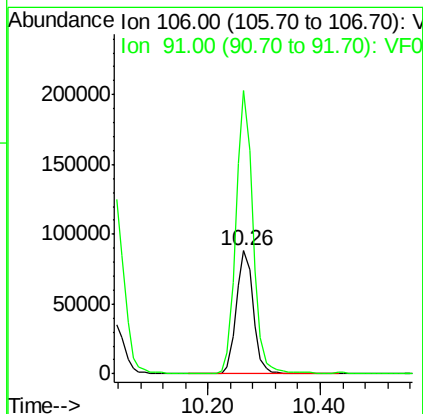
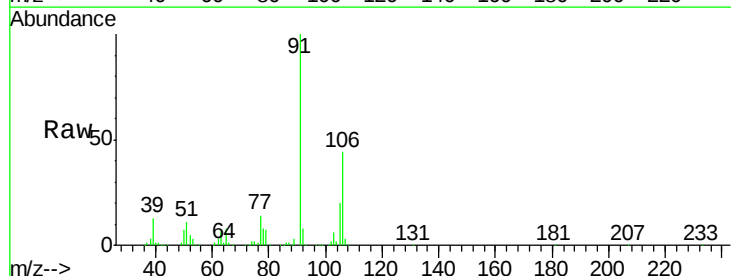
Acq: 19 Jul 2018 20:57

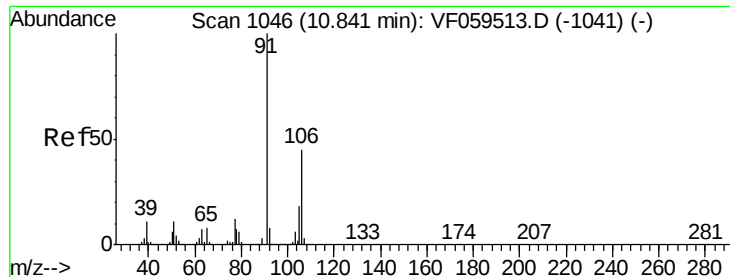
Tgt Ion: 106 Resp: 184774

Ion Ratio Lower Upper

106 100

91 229.8 181.0 271.4





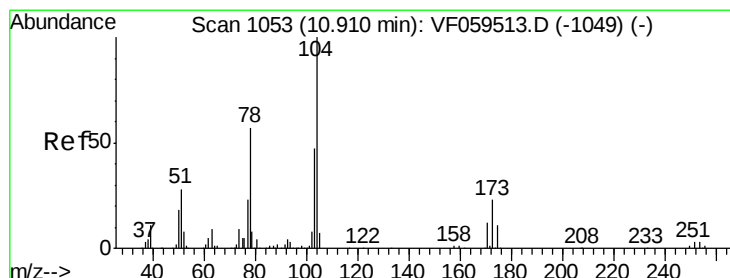
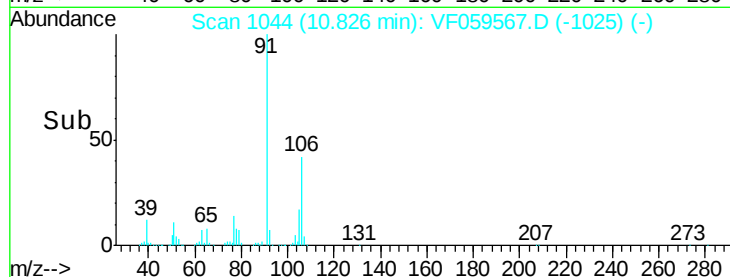
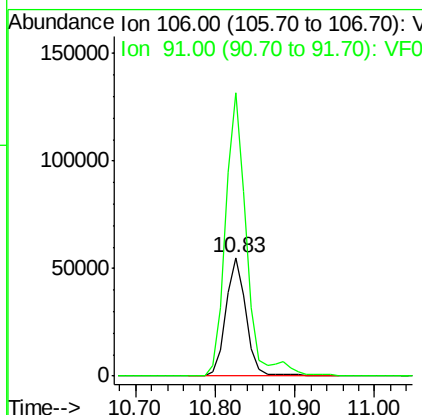
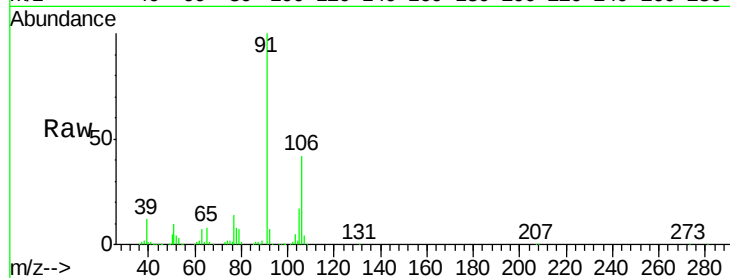
#69
o-Xylene
Concen: 22.89 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
106	100		
91	239.0	112.3	336.9

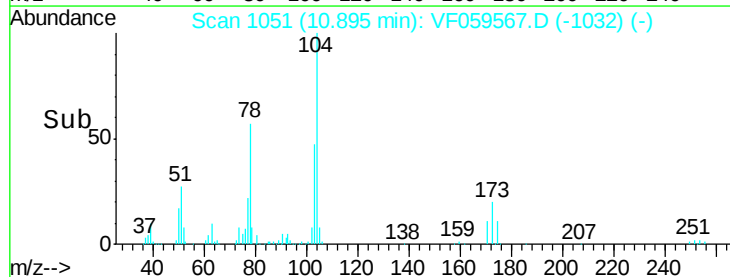
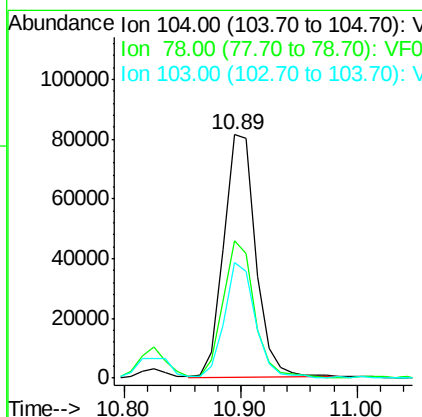
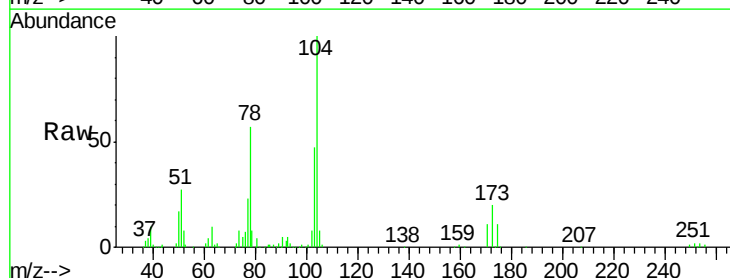
Manual Integrations
APPROVED

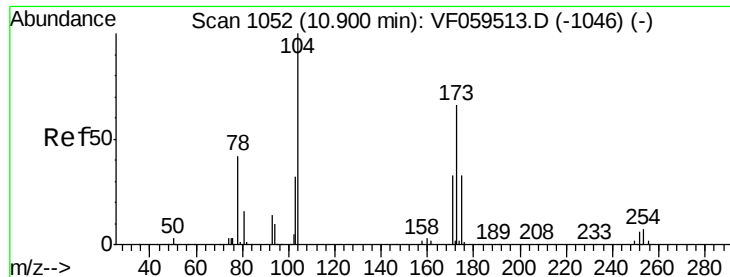
apatel
7/20/2018 11:49:00 AM



#70
Styrene
Concen: 23.32 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
104	100		
78	56.6	45.7	68.5
103	47.5	38.1	57.1





#71

Bromoform

Concen: 19.86 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion:173 Resp: 40706

Ion Ratio Lower Upper

173 100

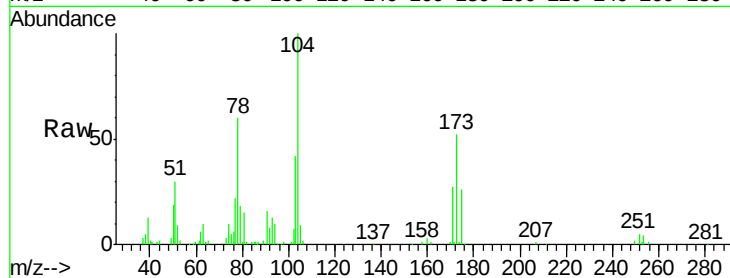
175 49.3 25.3 75.8

254 0.0 0.0 0.0

Manual Integrations
APPROVED

apatel

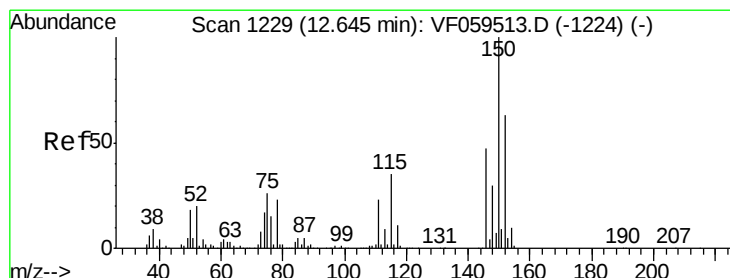
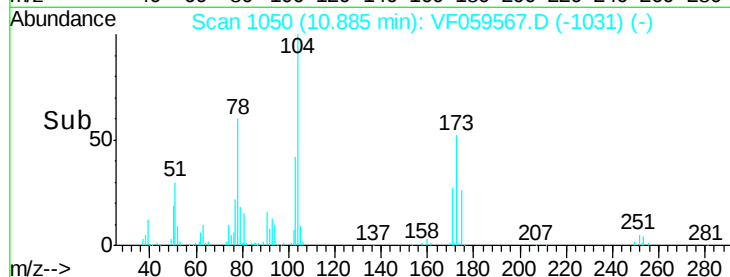
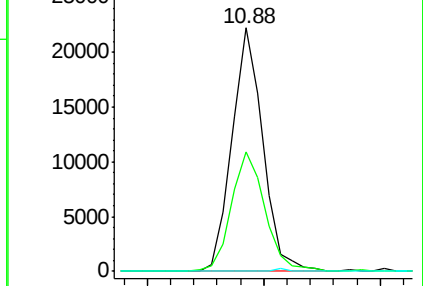
7/20/2018 11:49:00 AM



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: 12.63 min Scan# 1227

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

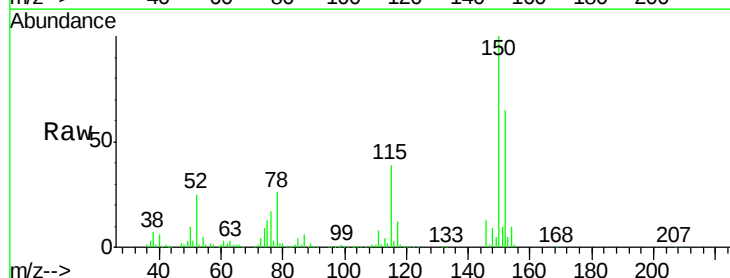
Tgt Ion:152 Resp: 229954

Ion Ratio Lower Upper

152 100

115 59.1 27.8 83.3

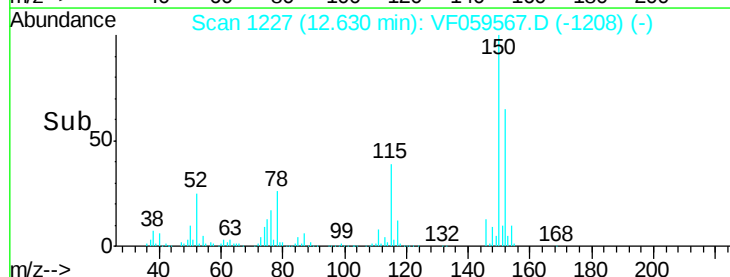
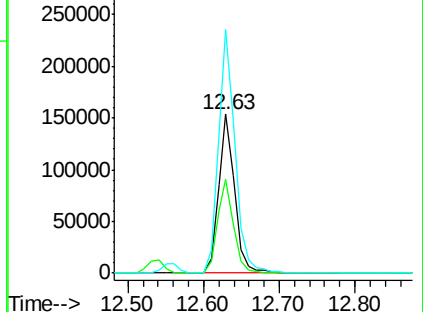
150 153.1 0.0 318.4

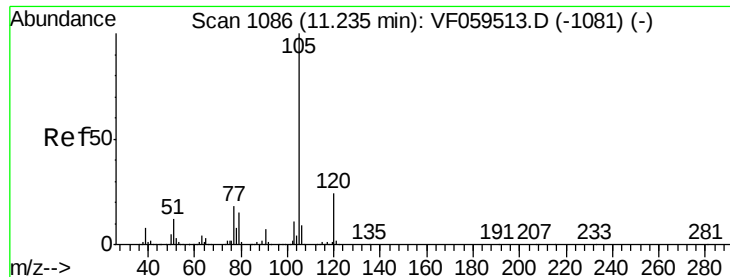


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.53 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS02

Tot Ion: 105 Resp: 312338

Ion Ratio Lower Upper

105 100

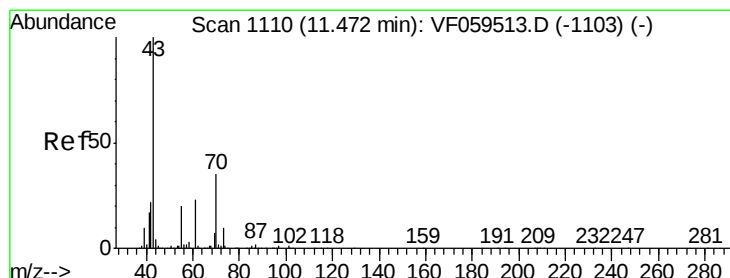
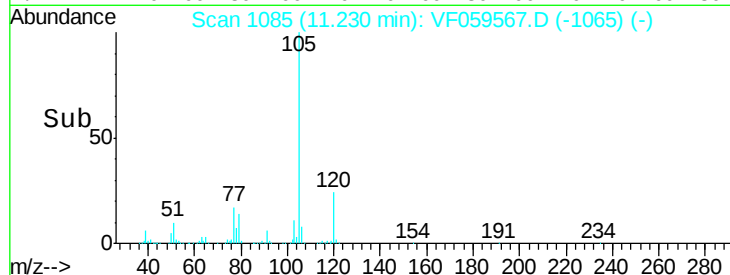
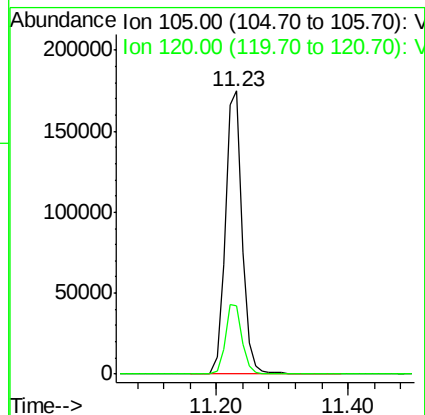
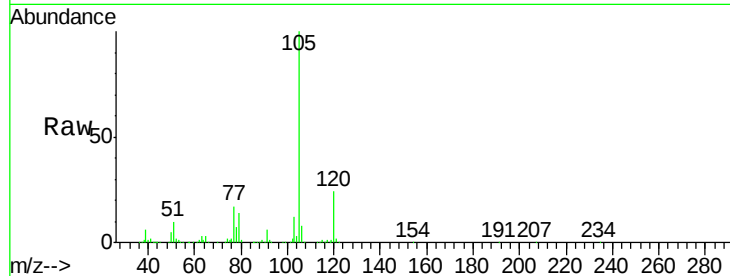
120 23.9 12.0 36.0

Manual Integrations

APPROVED

apatel

7/20/2018 11:49:00 AM



#74

N-ethyl acetate

Concen: 14.79 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion: 43 Resp: 68723

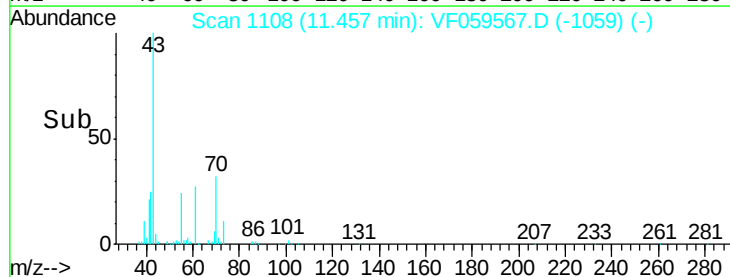
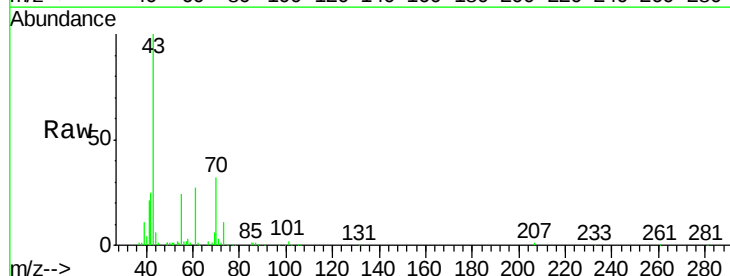
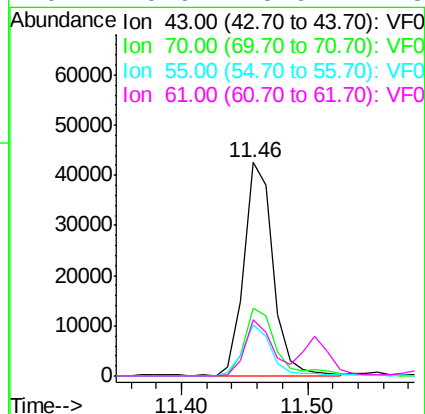
Ion Ratio Lower Upper

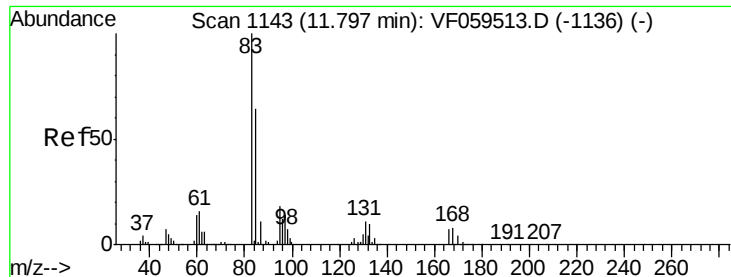
43 100

70 32.0 27.9 41.9

55 23.9 16.2 24.2

61 26.6 18.6 27.8





#75

1,1,2,2-Tetrachloroethane

Concen: 18.81 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

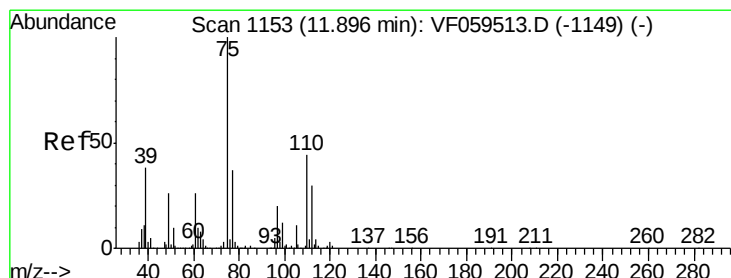
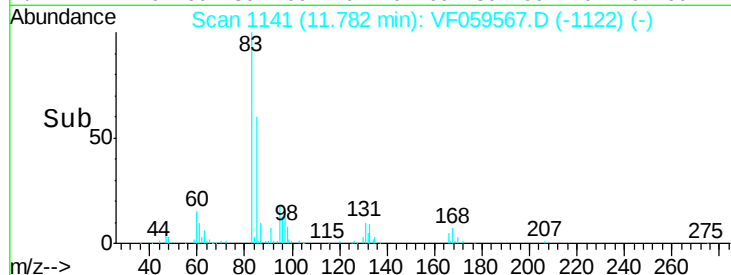
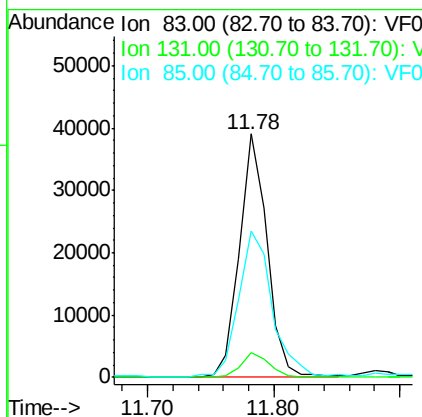
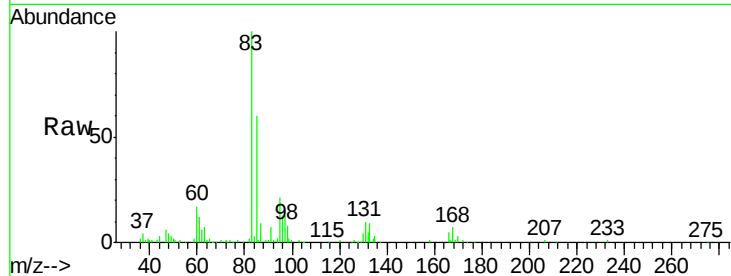
ClientSampleId :

VF0719SBSD02

Tot Ion:	83	Resp:	59517
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.7	17.1
85	60.0	31.9	95.9

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#76

1,2,3-Trichloropropane

Concen: 19.26 ug/l

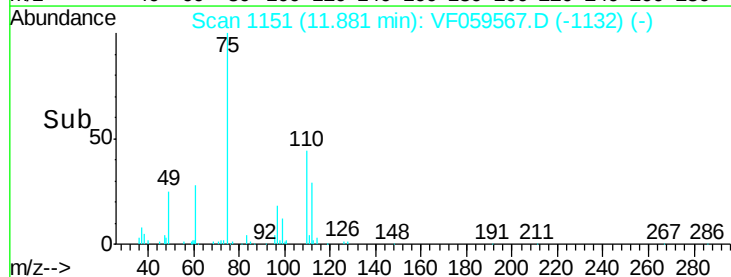
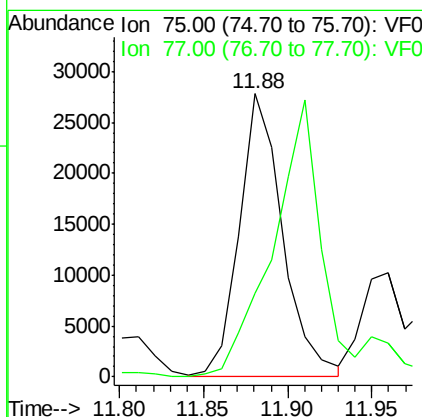
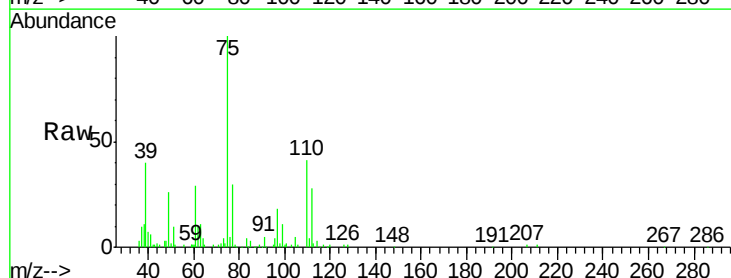
RT: 11.88 min Scan# 1151

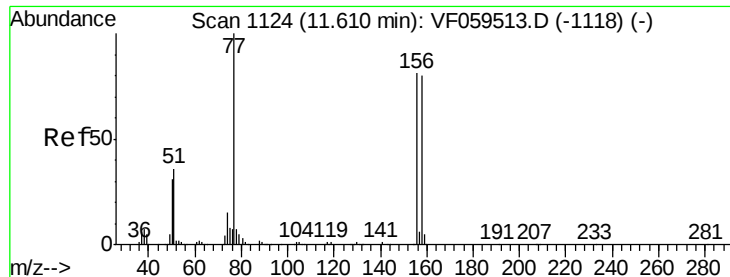
Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion:	75	Resp:	49778
Ion Ratio	Lower	Upper	
75	100		
77	29.6	18.7	56.1





#77

Bromobenzene

Concen: 20.56 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

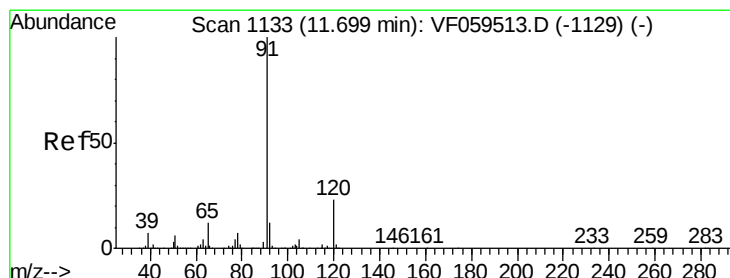
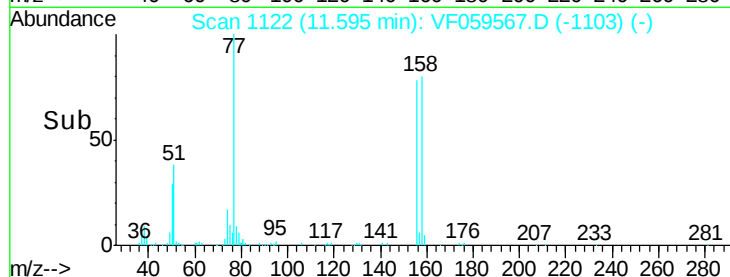
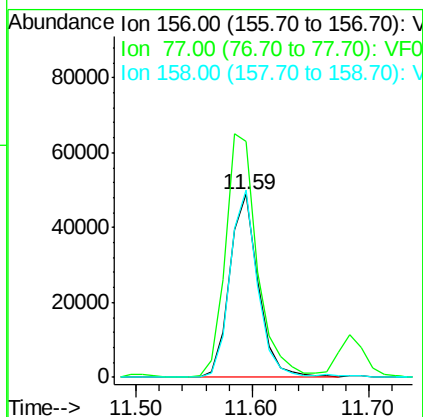
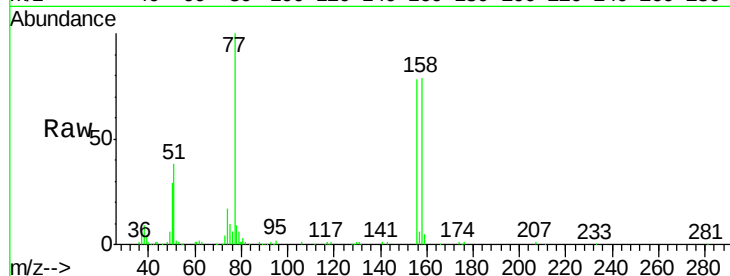
ClientSampleId :

VF0719SBS02

Tot Ion:	156	Resp:	83629
Ion Ratio	Lower	Upper	
156	100		
77	128.9	62.0	186.0
158	102.2	49.8	149.3

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#78

n-propylbenzene

Concen: 22.81 ug/l

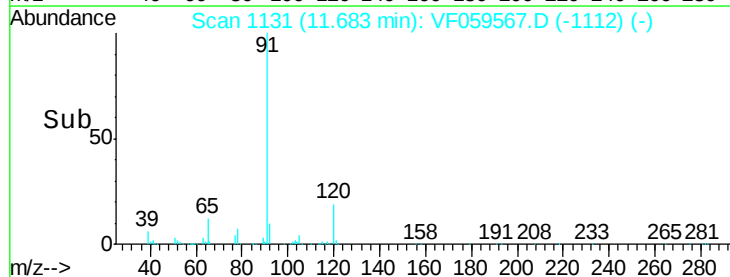
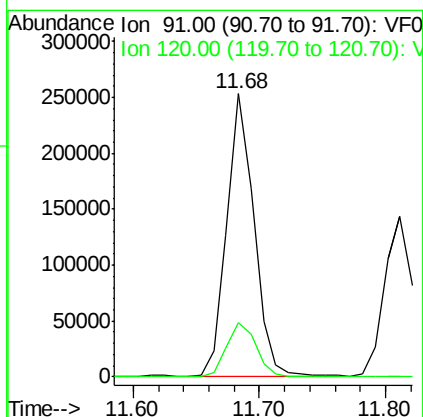
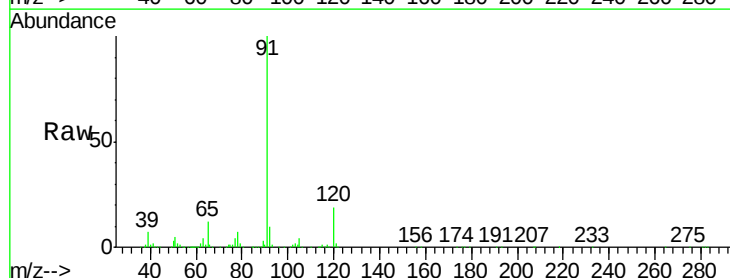
RT: 11.68 min Scan# 1131

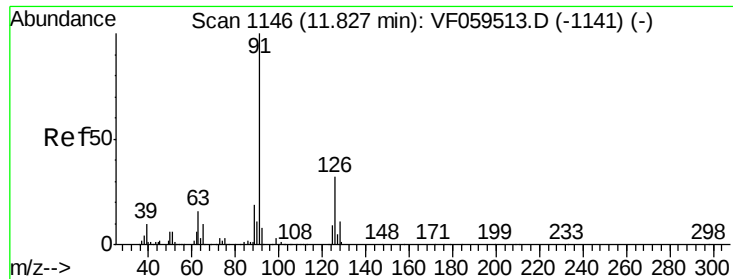
Delta R.T. -0.02 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion:	91	Resp:	379734
Ion Ratio	Lower	Upper	
91	100		
120	19.1	11.3	33.9





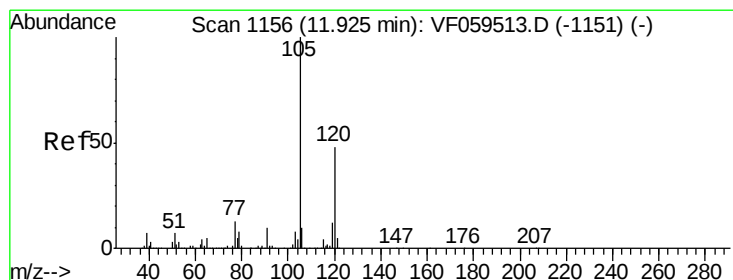
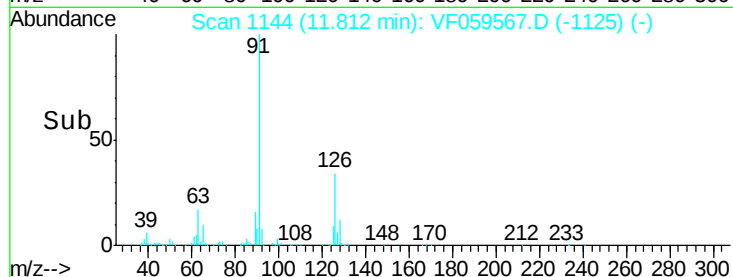
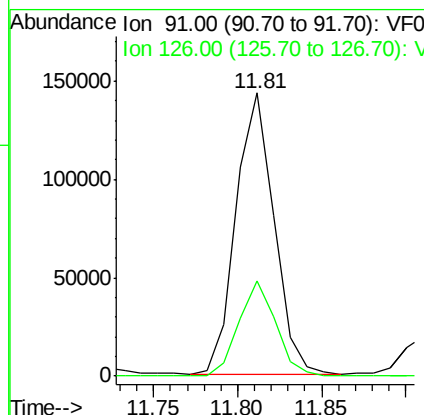
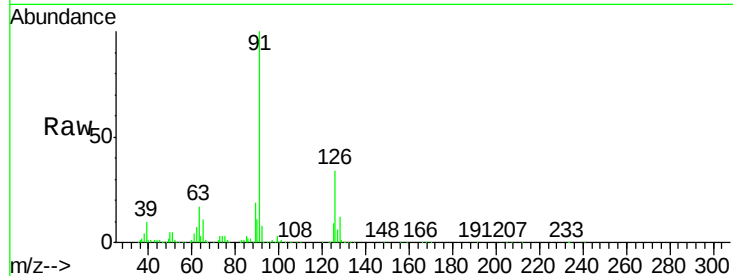
#79
 2-Chlorotoluene
 Concen: 21.99 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS02

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.8	15.7	47.1

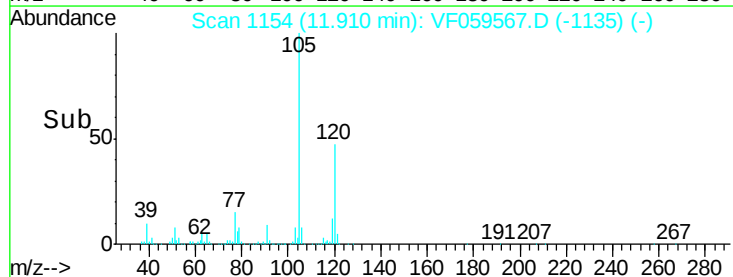
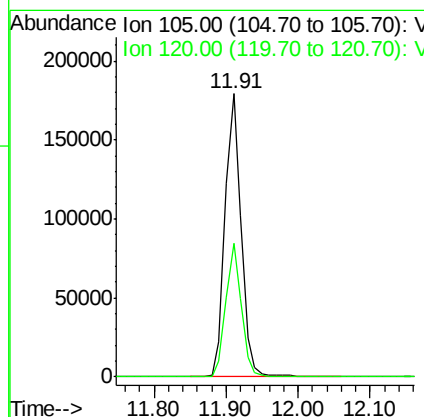
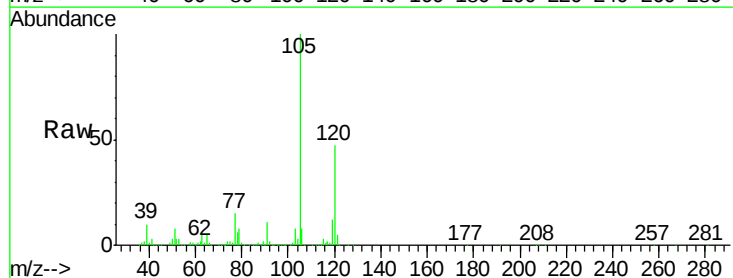
Manual Integrations
 APPROVED

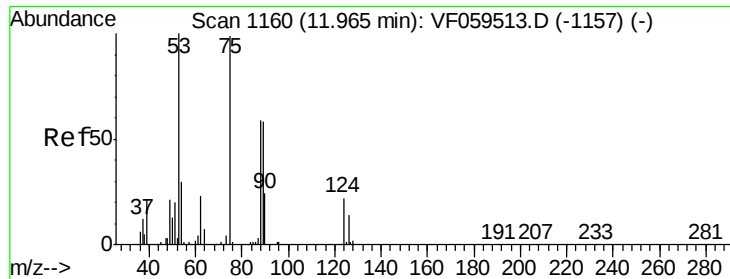
apatel
 7/20/2018 11:49:00 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 22.68 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.1	72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 14.18 ug/l m

RT: 11.96 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Instrument :

MSVOA_F

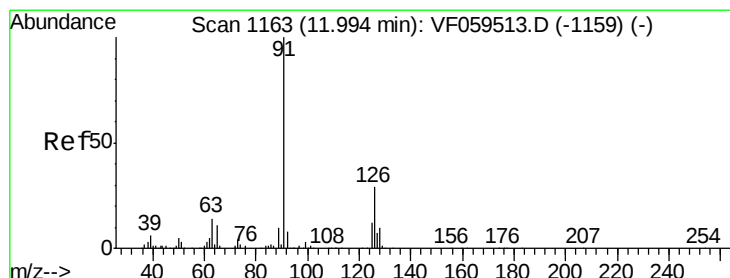
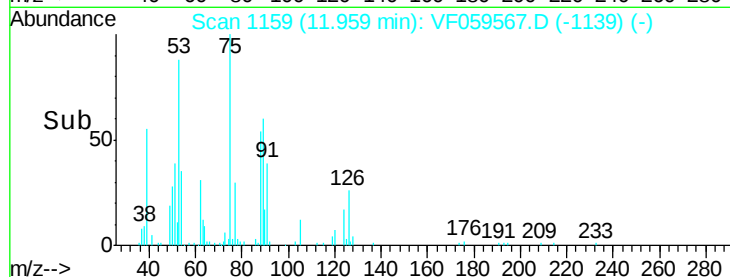
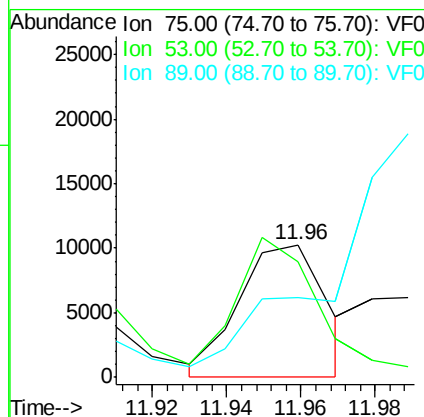
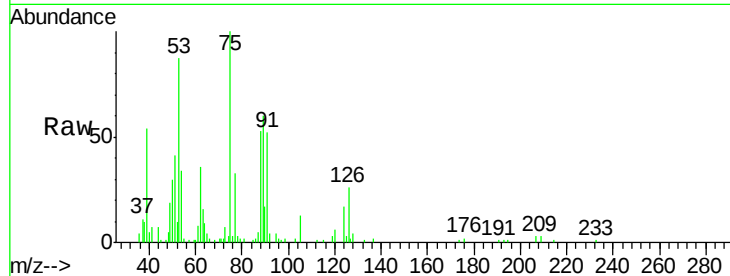
ClientSampleId :

VF0719SBS02

Tot Ion:	75	Resp:	16744
Ion	Ratio	Lower	Upper
75	100		
53	87.5	84.6	127.0
89	60.0	48.2	72.4

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#82

4-Chlorotoluene

Concen: 21.40 ug/l

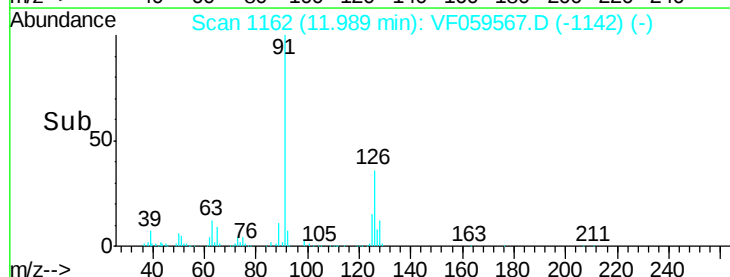
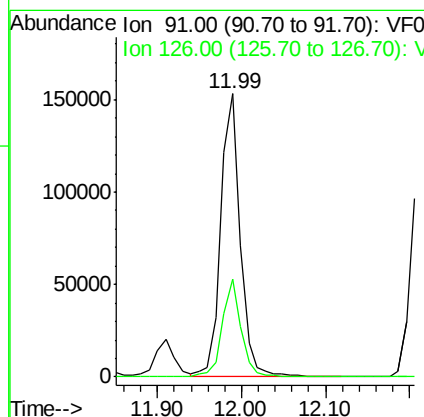
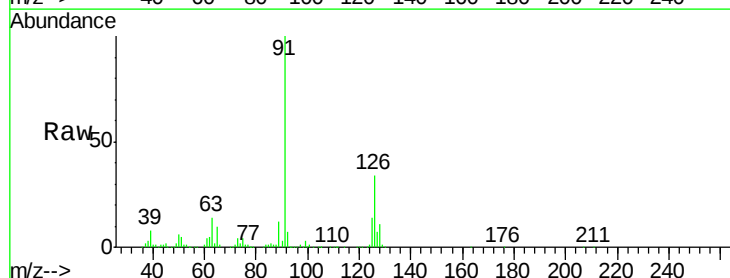
RT: 11.99 min Scan# 1162

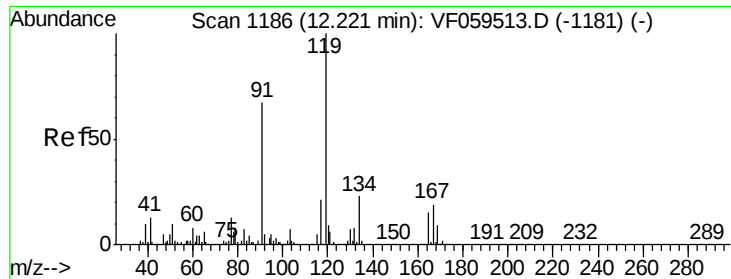
Delta R.T. -0.01 min

Lab File: VF059567.D

Acq: 19 Jul 2018 20:57

Tgt Ion:	91	Resp:	245785
Ion	Ratio	Lower	Upper
91	100		
126	34.5	14.4	43.4





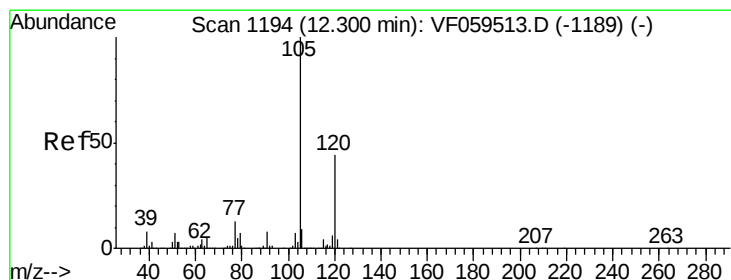
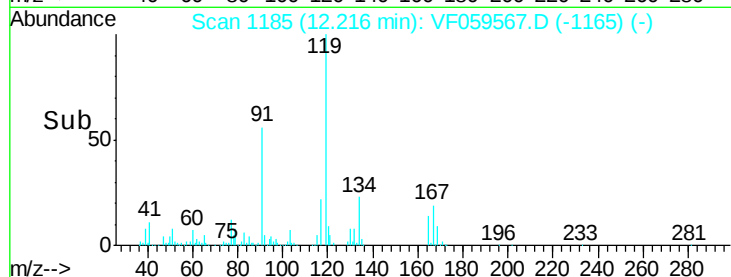
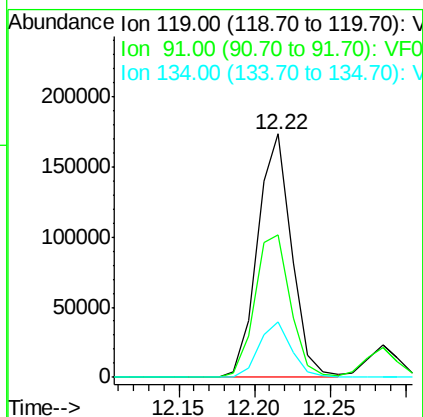
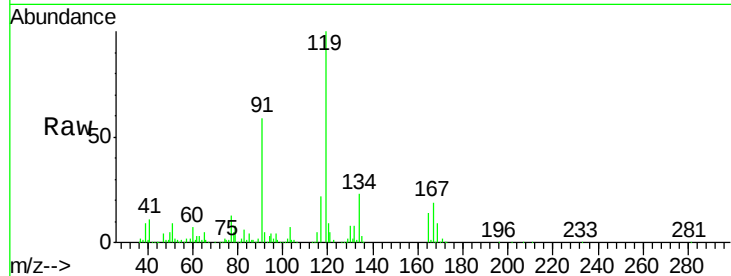
#83
tert-Butylbenzene
Concen: 23.40 ug/l
RT: 12.22 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	273121		
91	58.7	33.5	100.5	
134	22.7	11.3	33.8	

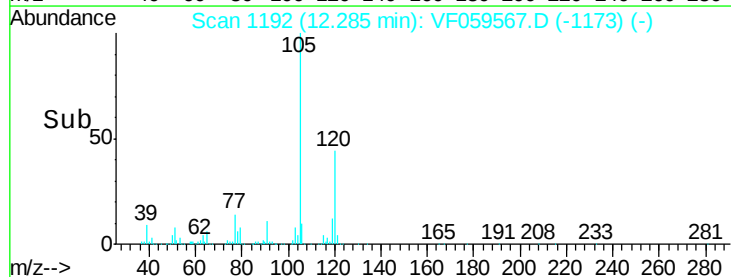
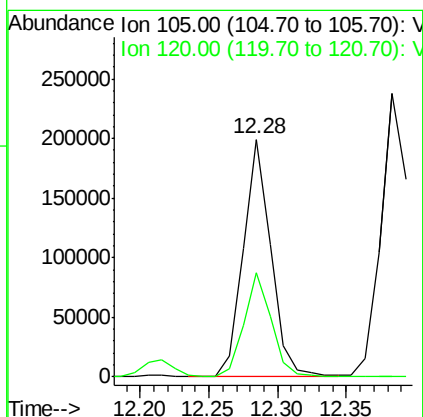
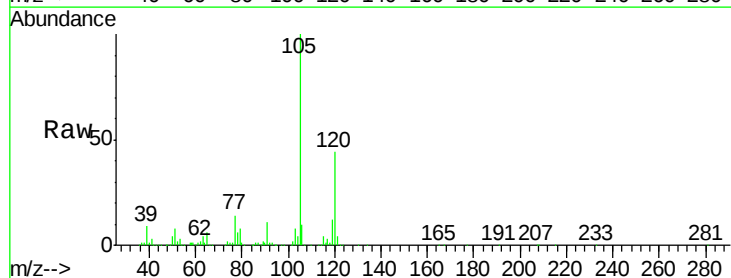
Manual Integrations
APPROVED

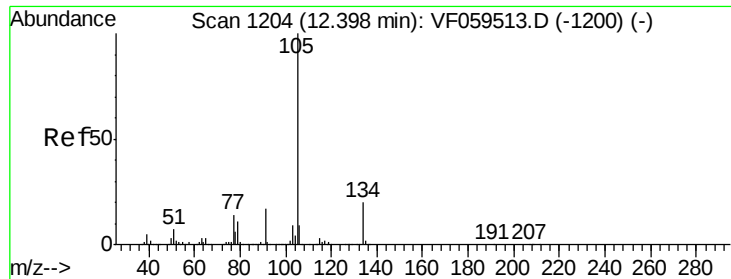
apatel
7/20/2018 11:49:00 AM



#84
1,2,4-Trimethylbenzene
Concen: 22.42 ug/l
RT: 12.28 min Scan# 1192
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	280452		
120	43.8	22.5	67.5	





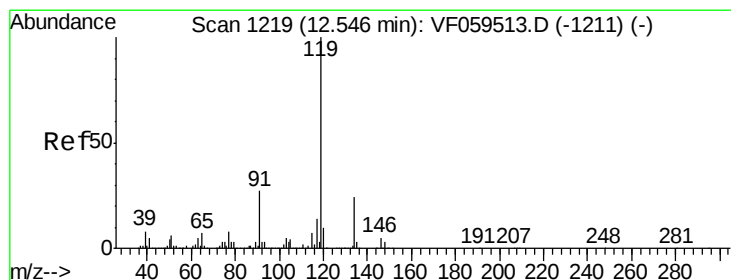
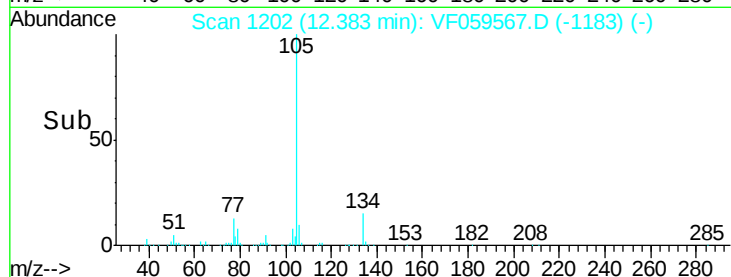
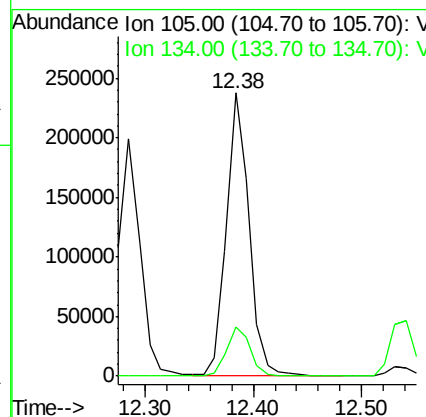
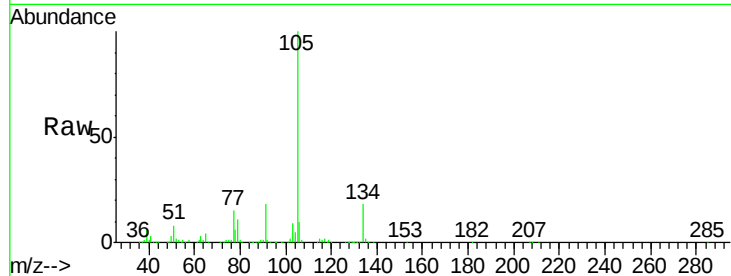
#85
 sec-Butylbenzene
 Concen: 23.26 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0719SBS02

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.5	10.1	30.1

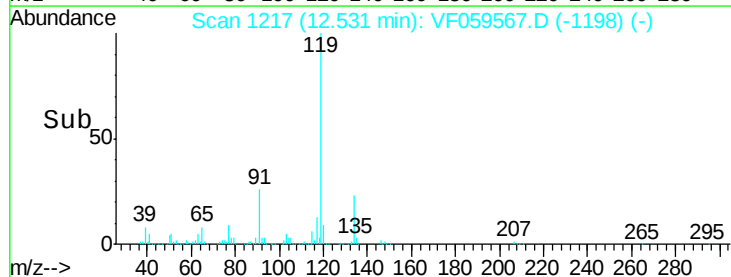
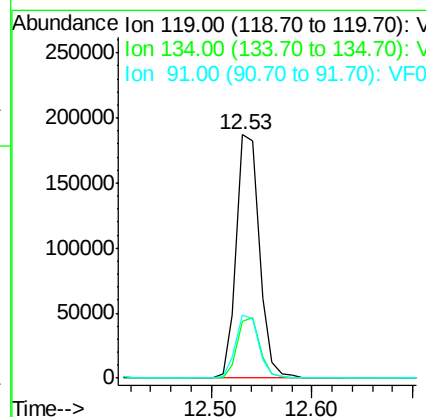
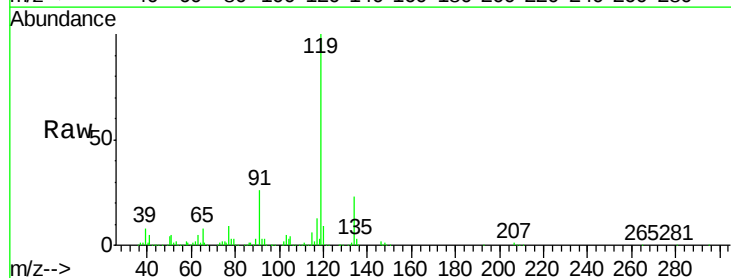
Manual Integrations
 APPROVED

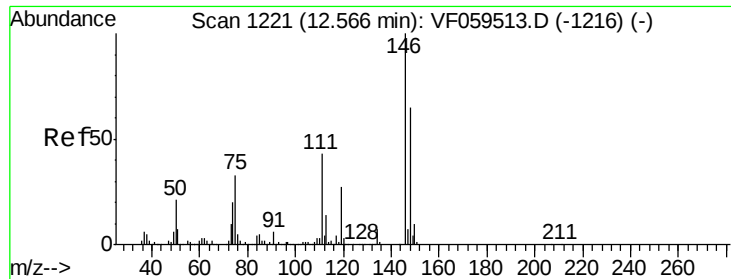
apatel
 7/20/2018 11:49:00 AM



#86
 p-Isopropyltoluene
 Concen: 23.09 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.2	12.0	36.0
91	25.8	13.5	40.4





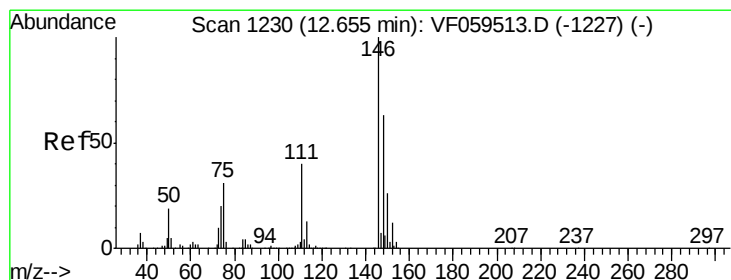
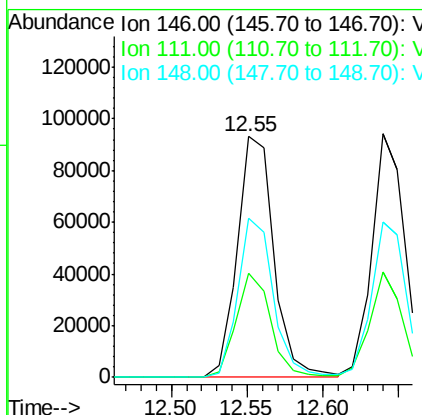
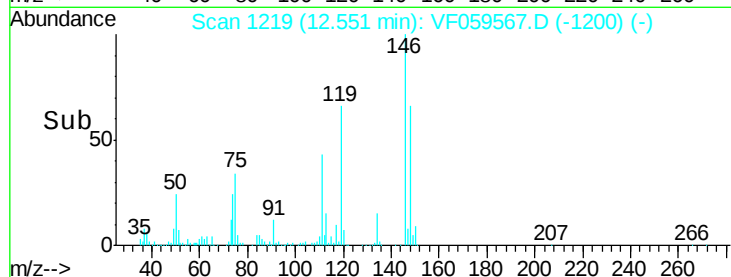
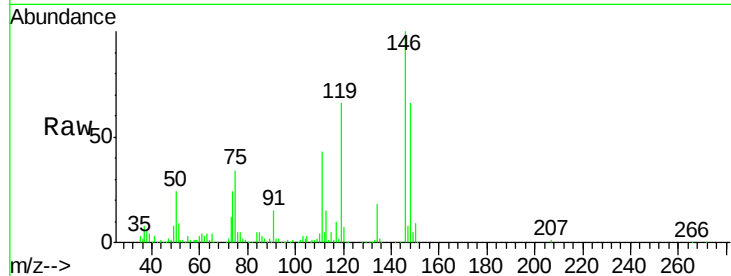
#87
 1,3-Dichlorobenzene
 Concen: 22.44 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	66.1	32.7	98.1

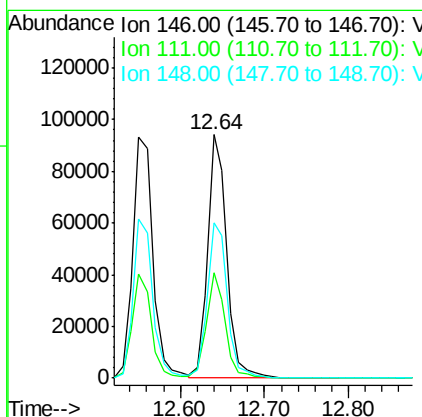
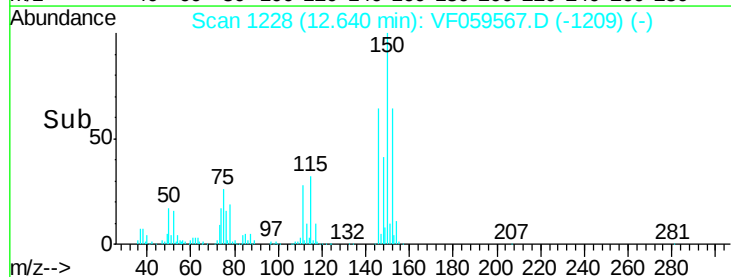
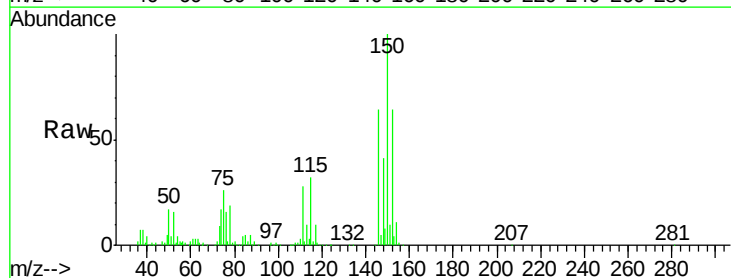
Manual Integrations
 APPROVED

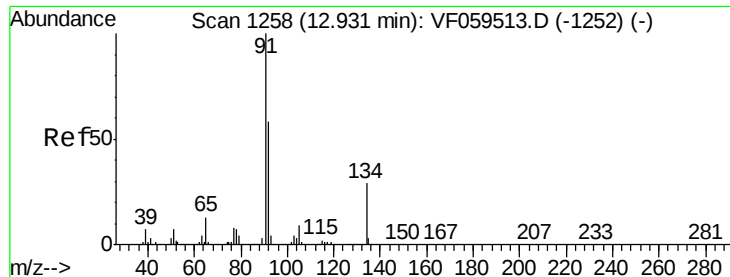
apatel
 7/20/2018 11:49:00 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.53 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.0	59.9
148	63.8	31.5	94.5





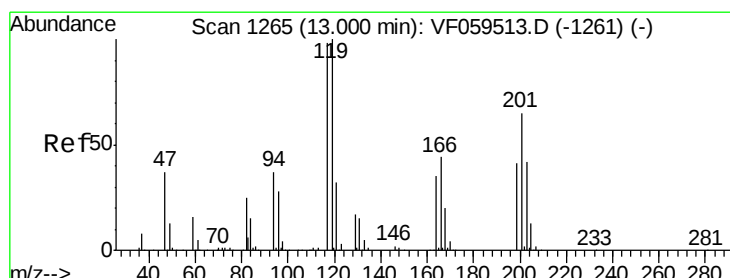
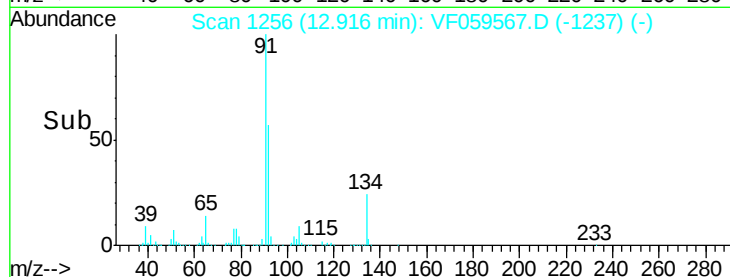
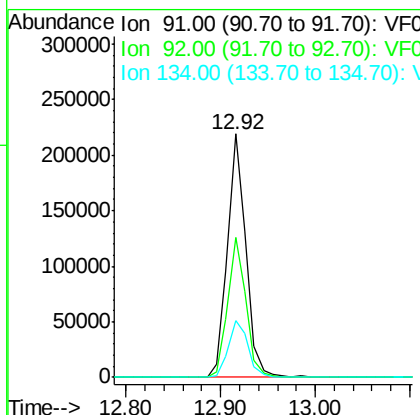
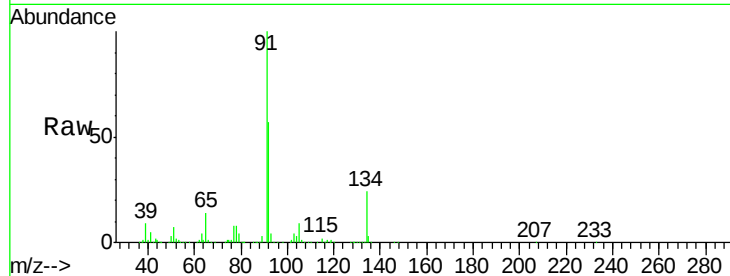
#89
n-Butylbenzene
Concen: 24.47 ug/l
RT: 12.92 min Scan# 1256
Delta R.T. -0.02 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	57.3	29.1	87.3
134	23.5	14.3	42.9

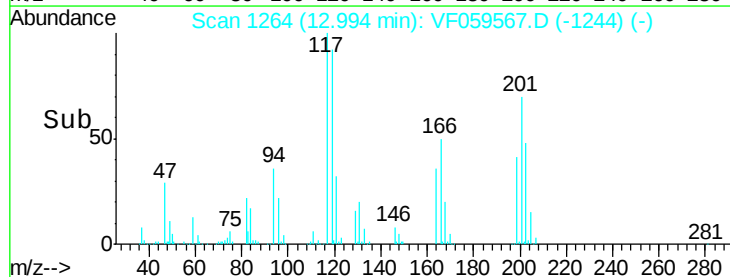
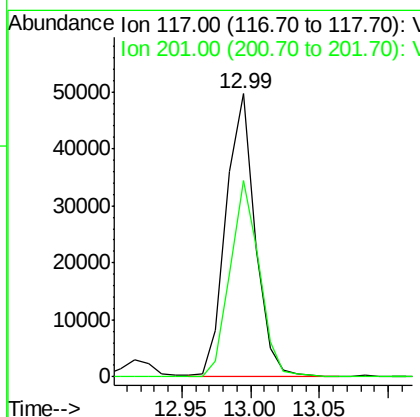
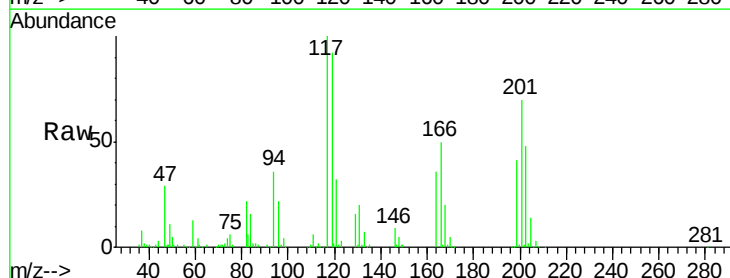
Manual Integrations
APPROVED

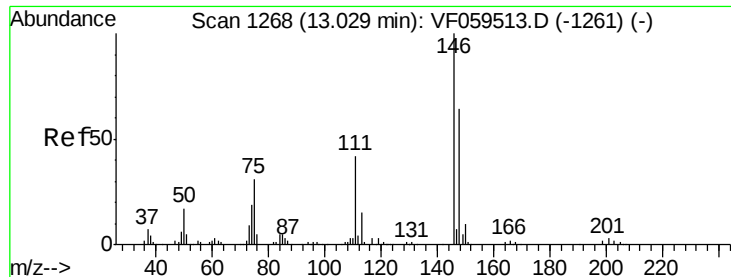
apatel
7/20/2018 11:49:00 AM



#90
Hexachloroethane
Concen: 24.92 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
117	100		
201	70.9	32.6	98.0





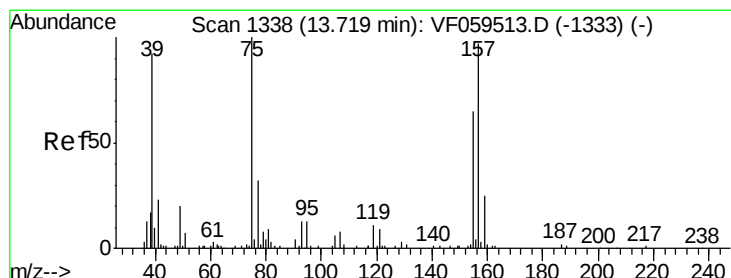
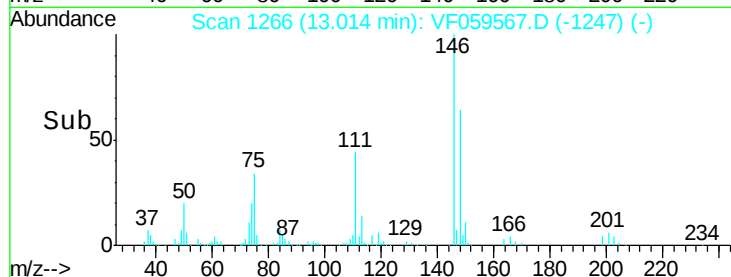
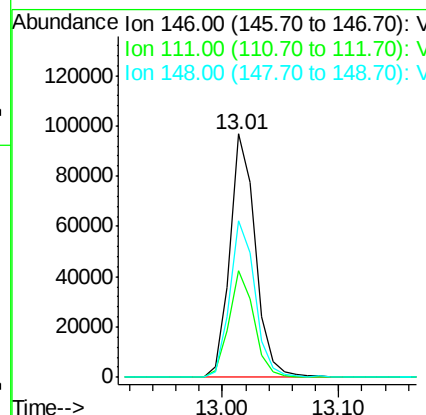
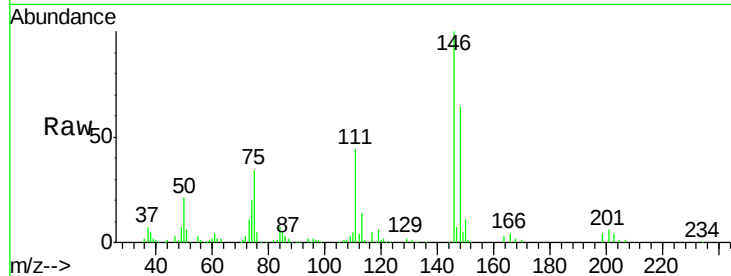
#91
 1,2-Dichlorobenzene
 Concen: 22.12 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. -0.02 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.1	63.1
148	64.1	32.3	96.8

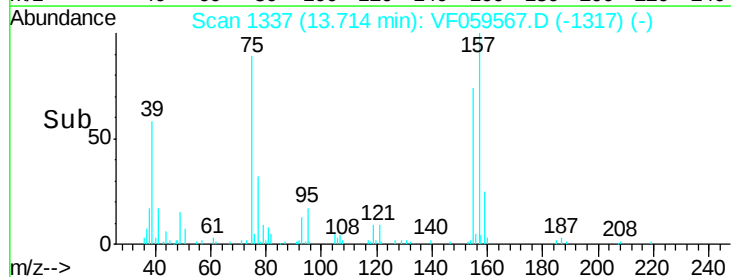
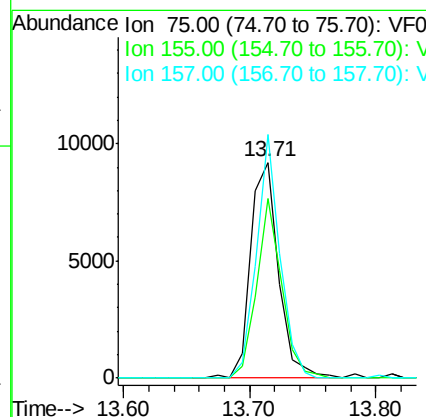
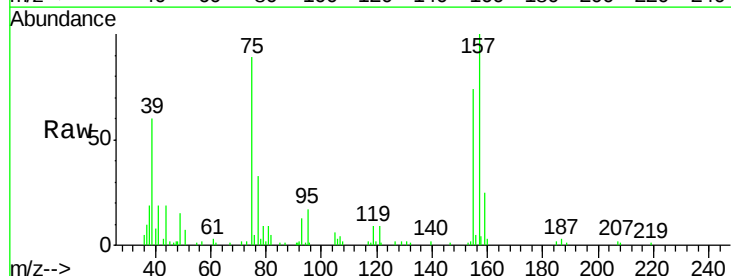
Manual Integrations
 APPROVED

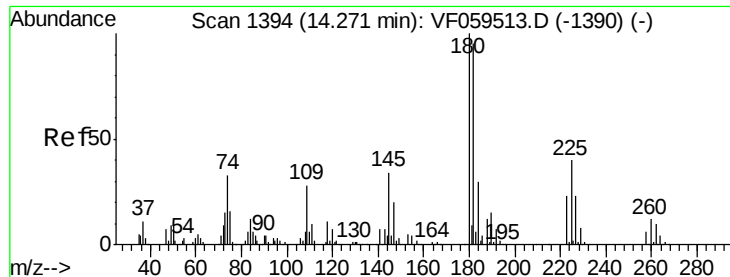
apatel
 7/20/2018 11:49:00 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.73 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.6	32.8	98.3
157	113.0	48.5	145.5





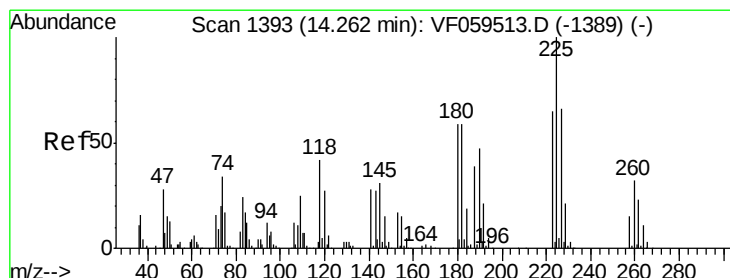
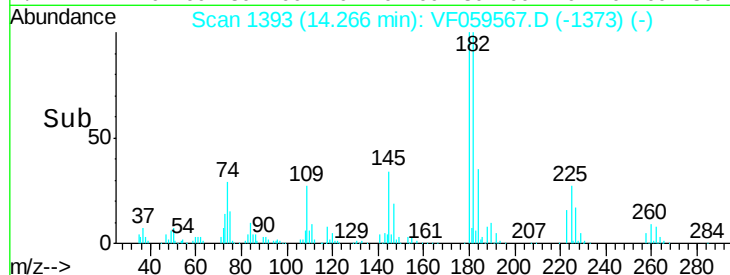
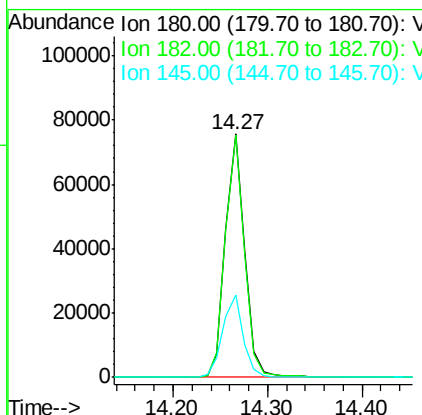
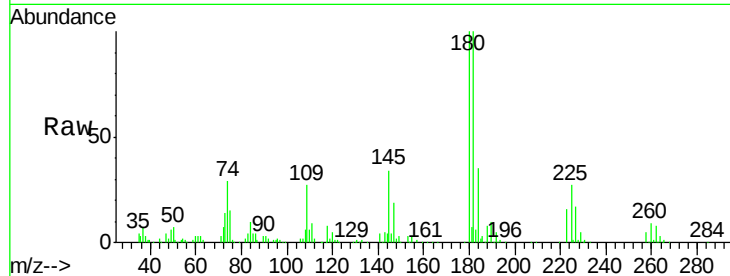
#93
 1,2,4-Trichlorobenzene
 Concen: 26.47 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	107336		
182	99.6	47.5	142.5	
145	33.8	17.3	51.7	

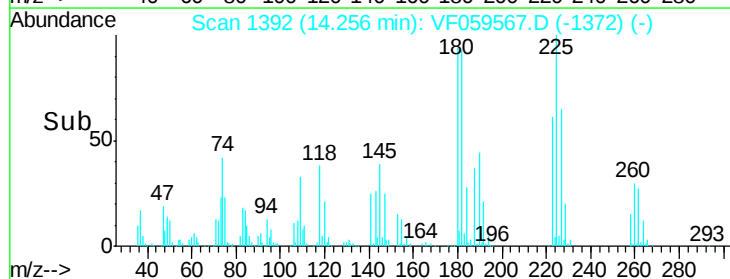
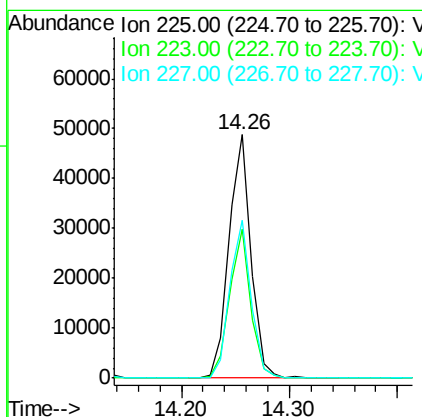
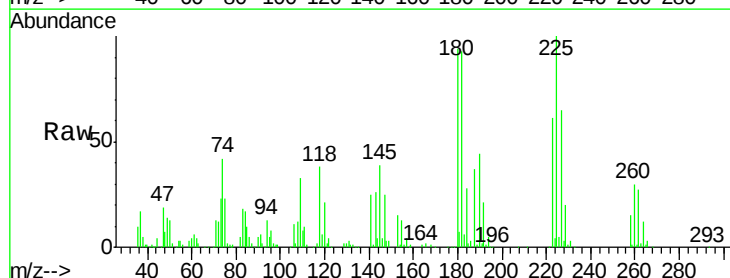
Manual Integrations
 APPROVED

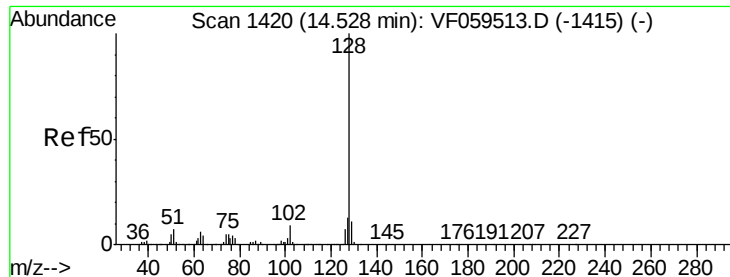
apatel
 7/20/2018 11:49:00 AM



#94
 Hexachlorobutadiene
 Concen: 33.20 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF059567.D
 Acq: 19 Jul 2018 20:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	68968		
223	61.3	32.3	96.8	
227	64.9	33.2	99.6	





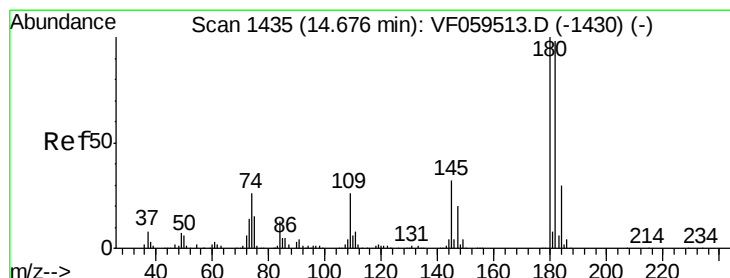
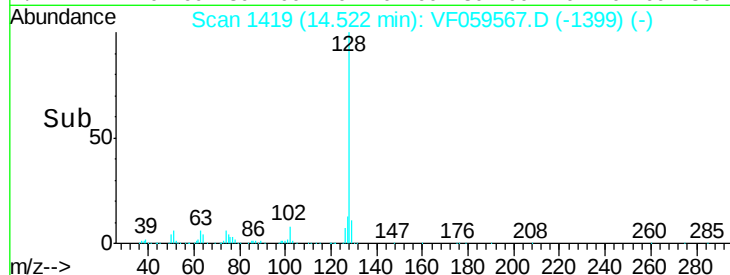
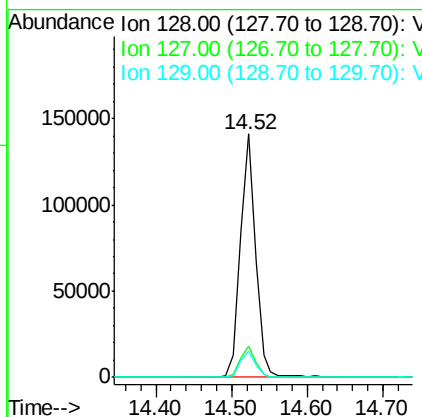
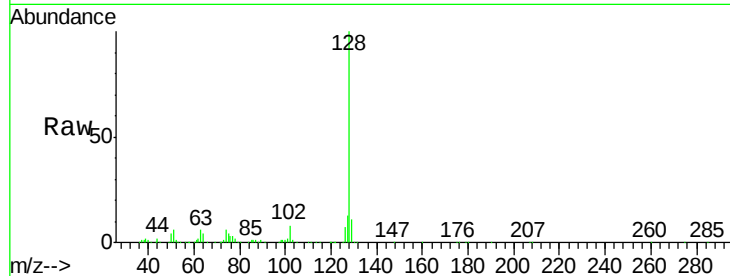
#95
Naphthalene
Concen: 23.14 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. -0.01 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS02

Tot Ion:	128	Resp:	194935
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.2
129	10.6	9.0	13.4

Manual Integrations
APPROVED

apatel
7/20/2018 11:49:00 AM



#96
1,2,3-Trichlorobenzene
Concen: 28.06 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. -0.01 min
Lab File: VF059567.D
Acq: 19 Jul 2018 20:57

Tgt Ion:	180	Resp:	102820
Ion Ratio	Lower	Upper	
180	100		
182	96.3	48.8	146.4
145	31.0	16.2	48.6

