

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112618\
 Data File : VF060828.D
 Acq On : 26 Nov 2018 18:02
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 11/27/2018 3:16:50 PM

Quant Time: Nov 27 00:53:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 00:28:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	197453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.63	114	318777	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.80	117	313901	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.58	152	163430	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.88	65	48286	21.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.22%	
35) Dibromofluoromethane	4.14	113	51479	20.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.80%	
50) Toluene-d8	7.59	98	152257	21.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.26%	
62) 4-Bromofluorobenzene	11.43	95	69051	20.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	66857	19.615	ug/l	98
3) Chloromethane	1.10	50	42238	20.185	ug/l	98
4) Vinyl Chloride	1.15	62	37901	19.917	ug/l	96
5) Bromomethane	1.35	94	26047	21.137	ug/l #	80
6) Chloroethane	1.41	64	16127	21.655	ug/l #	86
7) Trichlorofluoromethane	1.50	101	81443m	19.450	ug/l	
8) Diethyl Ether	1.65	74	11818	21.604	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.85	101	40468	20.140	ug/l	97
10) Methyl Iodide	1.93	142	64006m	19.995	ug/l	
11) Tert butyl alcohol	2.59	59	10173	100.750	ug/l	97
12) 1,1-Dichloroethene	1.81	96	33577	20.989	ug/l	91
13) Acrolein	2.02	56	8544m	89.492	ug/l	
14) Allyl chloride	2.11	41	38049	13.663	ug/l	95
15) Acrylonitrile	2.97	53	22899	106.158	ug/l	93
16) Acetone	2.26	43	45761	99.144	ug/l	94
17) Carbon Disulfide	1.85	76	91060m	19.393	ug/l	
18) Methyl Acetate	2.37	43	15626	20.269	ug/l	97
19) Methyl tert-butyl Ether	2.45	73	74756	19.806	ug/l	98
20) Methylene Chloride	2.28	84	32474m	18.274	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	30922m	18.979	ug/l	
22) Diisopropyl ether	2.82	45	112926	20.966	ug/l	99
23) Vinyl Acetate	3.22	43	259551	103.528	ug/l	97
24) 1,1-Dichloroethane	2.90	63	62904	19.104	ug/l	100
25) 2-Butanone	4.37	43	76620	98.413	ug/l	94
26) 2,2-Dichloropropane	3.63	77	41987	16.765	ug/l	88
27) cis-1,2-Dichloroethene	3.50	96	51764	18.699	ug/l	91
28) Bromochloromethane	3.75	49	32131	19.333	ug/l	100
29) Tetrahydrofuran	4.10	42	33741	104.886	ug/l	97
30) Chloroform	3.90	83	103406	20.072	ug/l	97
31) Cyclohexane	3.72	56	70358m	18.235	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	70307m	17.384	ug/l	
36) 1,1-Dichloropropene	4.32	75	72312	19.659	ug/l	98
37) Ethyl Acetate	4.14	43	29782	21.457	ug/l #	97
38) Carbon Tetrachloride	4.02	117	61308	17.138	ug/l	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112618\
 Data File : VF060828.D
 Acq On : 26 Nov 2018 18:02
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 11/27/2018 3:16:50 PM

Quant Time: Nov 27 00:53:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 00:28:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	76075	18.143	ug/l	97
40) Benzene	4.67	78	163031	19.934	ug/l	100
41) Methacrylonitrile	4.78	41	16162	19.445	ug/l #	80
42) 1,2-Dichloroethane	4.98	62	58679	20.347	ug/l	97
43) Isopropyl Acetate	6.99	43	35043	18.924	ug/l #	97
44) Trichloroethene	5.54	130	54102	20.719	ug/l	99
45) 1,2-Dichloropropane	6.27	63	42740	19.730	ug/l	90
46) Dibromomethane	6.13	93	28032	19.748	ug/l	94
47) Bromodichloromethane	6.42	83	74889	20.693	ug/l	96
48) Methyl methacrylate	6.75	41	25677	20.725	ug/l	91
49) 1,4-Dioxane	6.74	88	4112	363.683	ug/l #	90
51) 4-Methyl-2-Pentanone	8.29	43	140236	105.814	ug/l	97
52) Toluene	7.65	92	117882	21.472	ug/l	97
53) t-1,3-Dichloropropene	8.32	75	58823	20.047	ug/l	96
54) cis-1,3-Dichloropropene	7.34	75	78843	20.553	ug/l	97
55) 1,1,2-Trichloroethane	8.52	97	31541	19.922	ug/l	94
56) Ethyl methacrylate	8.65	69	34972	19.238	ug/l	98
57) 1,3-Dichloropropane	8.89	76	58747	21.043	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.33	63	19878	120.327	ug/l	100
59) 2-Hexanone	9.53	43	96646	103.226	ug/l	96
60) Dibromochloromethane	8.75	129	48447	21.163	ug/l	98
61) 1,2-Dibromoethane	9.02	107	37518	22.454	ug/l	100
64) Tetrachloroethene	8.19	164	49287	20.443	ug/l	96
65) Chlorobenzene	9.83	112	123927	19.676	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.96	131	55069	20.419	ug/l	99
67) Ethyl Benzene	9.93	91	223960	18.986	ug/l	100
68) m/p-Xylenes	10.16	106	170897	40.683	ug/l	99
69) o-Xylene	10.74	106	92778	19.719	ug/l	90
70) Styrene	10.81	104	131990	20.547	ug/l	97
71) Bromoform	10.80	173	25351	20.688	ug/l	99
73) Isopropylbenzene	11.15	105	277459	21.186	ug/l	98
74) N-amyl acetate	11.39	43	65177	21.567	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.72	83	45087	20.892	ug/l	96
76) 1,2,3-Trichloropropane	11.82	75	31784	19.600	ug/l	98
77) Bromobenzene	11.52	156	59722	21.518	ug/l	92
78) n-propylbenzene	11.62	91	314071	20.296	ug/l	96
79) 2-Chlorotoluene	11.74	91	178013	20.016	ug/l	94
80) 1,3,5-Trimethylbenzene	11.85	105	225377	21.579	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.90	75	14044m	17.860	ug/l	
82) 4-Chlorotoluene	11.93	91	187809	20.552	ug/l	96
83) tert-Butylbenzene	12.15	119	224733	20.572	ug/l	97
84) 1,2,4-Trimethylbenzene	12.23	105	211967	19.586	ug/l	98
85) sec-Butylbenzene	12.33	105	315713	21.130	ug/l	99
86) p-Isopropyltoluene	12.48	119	256413	20.673	ug/l	97
87) 1,3-Dichlorobenzene	12.50	146	109359	20.080	ug/l	98
88) 1,4-Dichlorobenzene	12.59	146	107392	20.583	ug/l	96
89) n-Butylbenzene	12.86	91	259876	20.213	ug/l	96
90) Hexachloroethane	12.94	117	61363	20.194	ug/l	90
91) 1,2-Dichlorobenzene	12.96	146	106331	20.595	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.66	75	8177	20.175	ug/l	81

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF112618\
Data File : VF060828.D
Acq On : 26 Nov 2018 18:02
Operator : VA/AP
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM

Quant Time: Nov 27 00:53:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 00:28:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	74683	20.435	ug/l	98
94) Hexachlorobutadiene	14.21	225	47351	19.971	ug/l	95
95) Naphthalene	14.48	128	152522	22.816	ug/l	98
96) 1,2,3-Trichlorobenzene	14.63	180	67429	20.139	ug/l	99

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

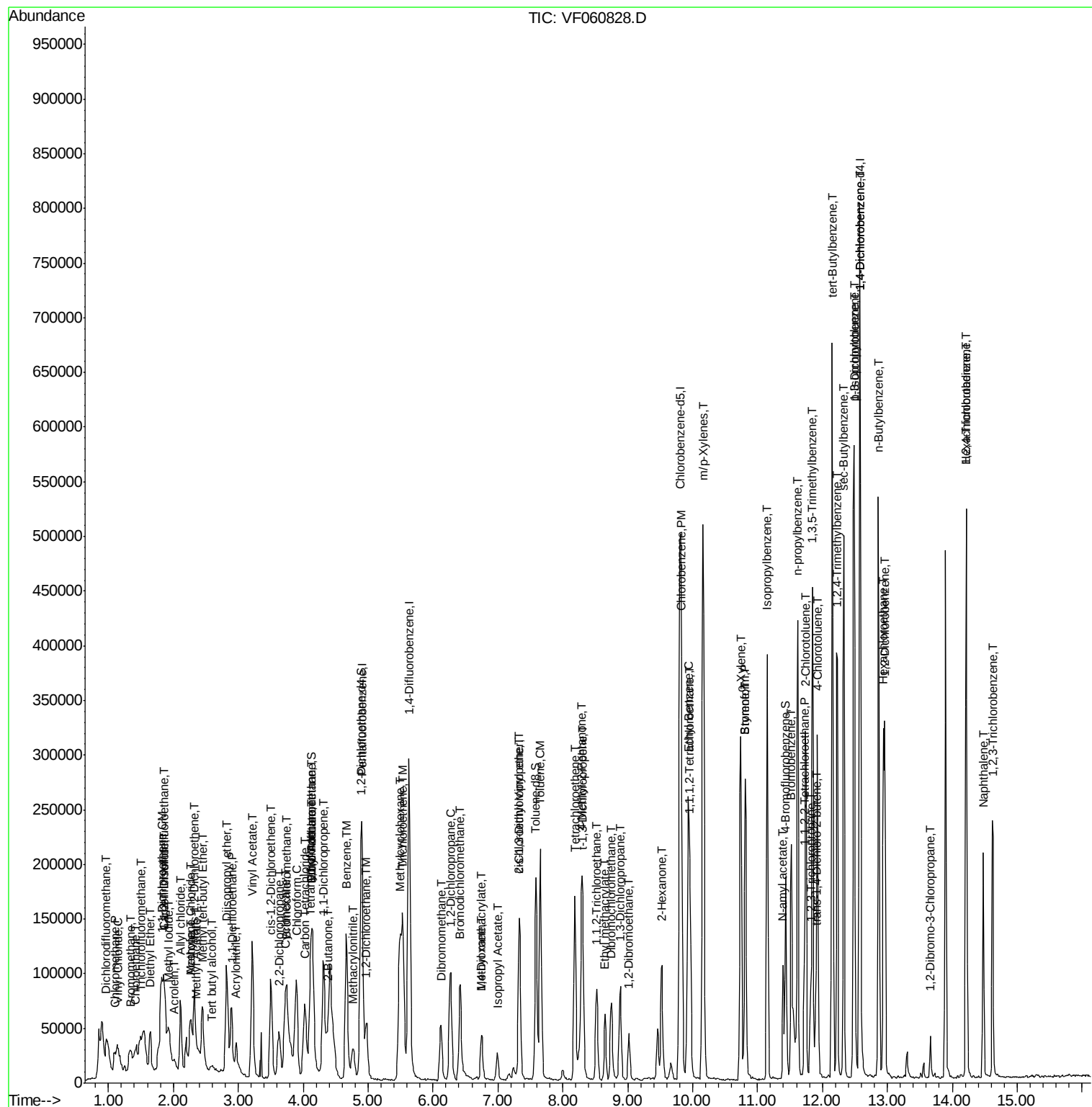
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF112618\
 Data File : VF060828.D
 Acq On : 26 Nov 2018 18:02
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

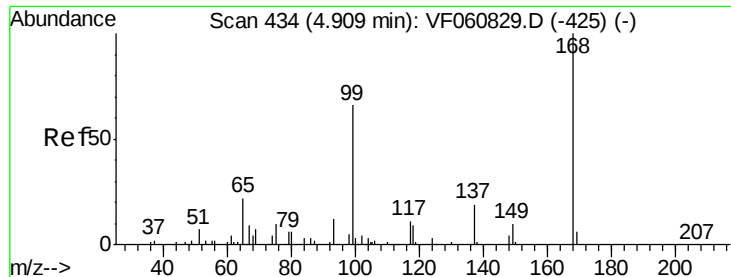
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 11/27/2018 3:16:50 PM

Quant Time: Nov 27 00:53:06 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 00:28:26 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 197453

Ion Ratio Lower Upper

168 100

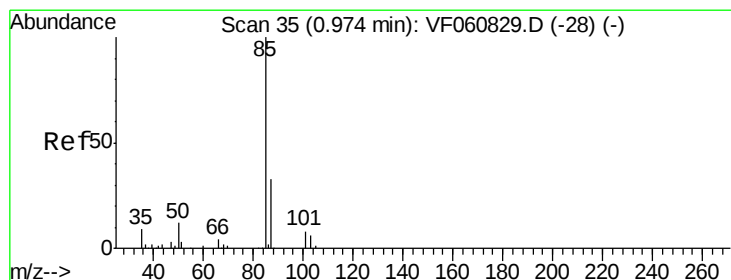
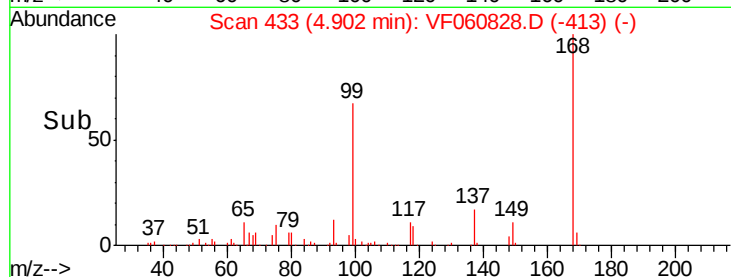
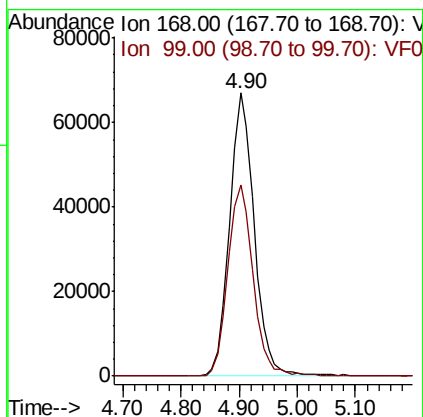
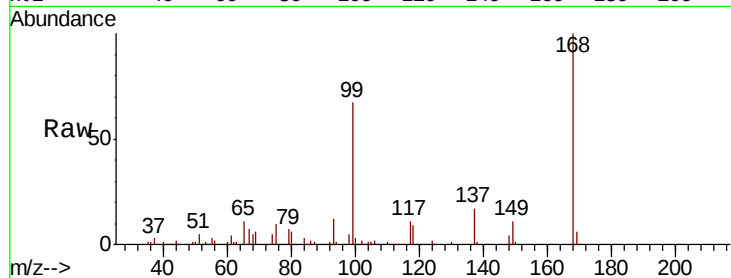
99 67.4 52.6 79.0

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



#2

Dichlorodifluoromethane

Concen: 19.615 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060828.D

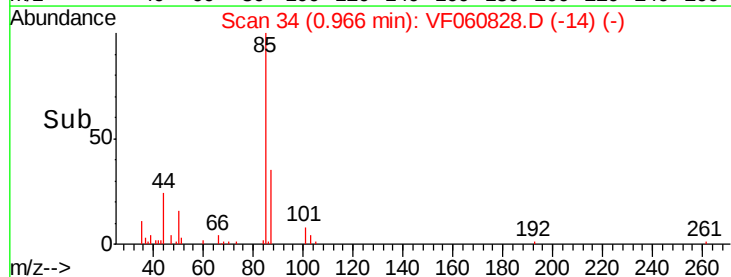
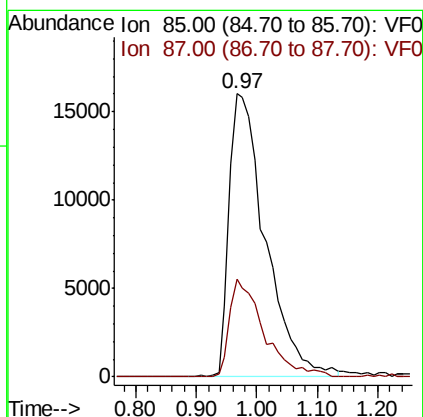
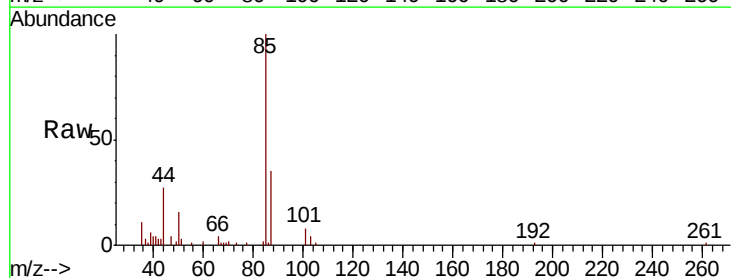
Acq: 26 Nov 2018 18:02

Tgt Ion: 85 Resp: 66857

Ion Ratio Lower Upper

85 100

87 34.7 16.7 50.0





#3

Chloromethane

Concen: 20.185 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 42238

Ion Ratio Lower Upper

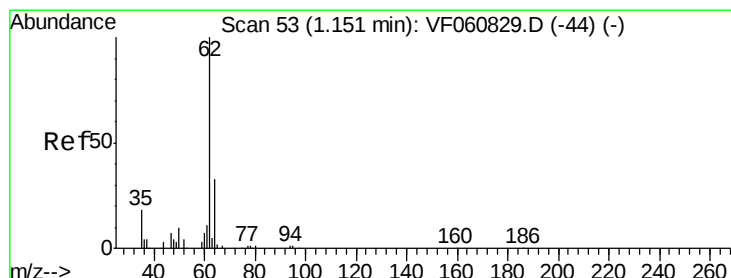
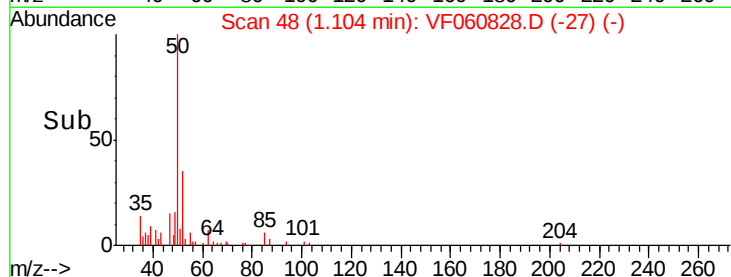
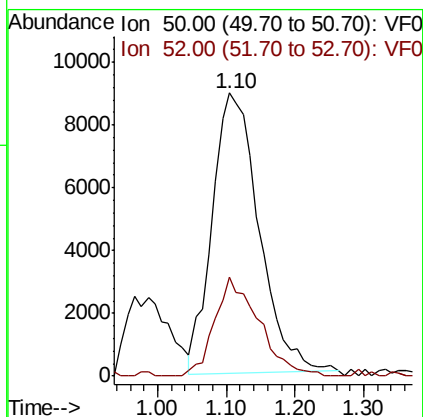
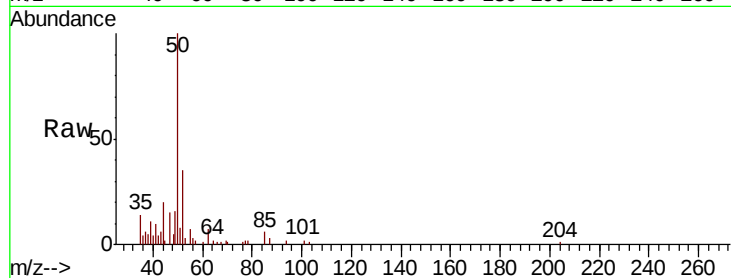
50 100

52 34.9 27.0 40.4

Manual Integrations
APPROVED

apatel

11/27/2018 3:16:50 PM



#4

Vinyl Chloride

Concen: 19.917 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.00 min

Lab File: VF060828.D

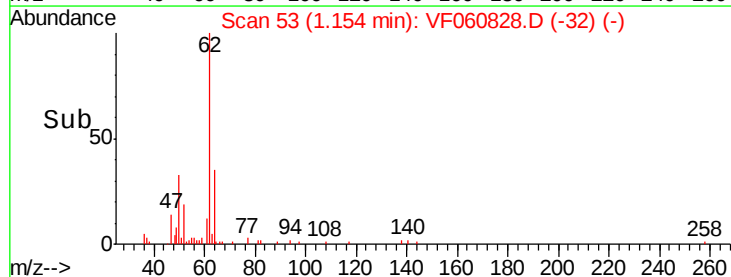
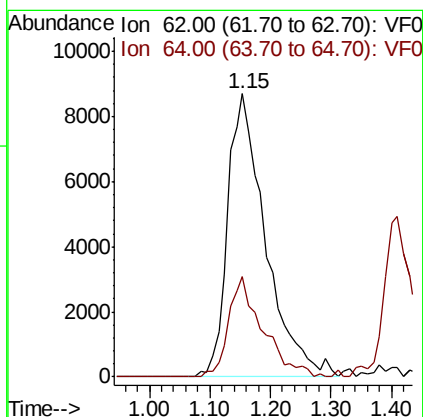
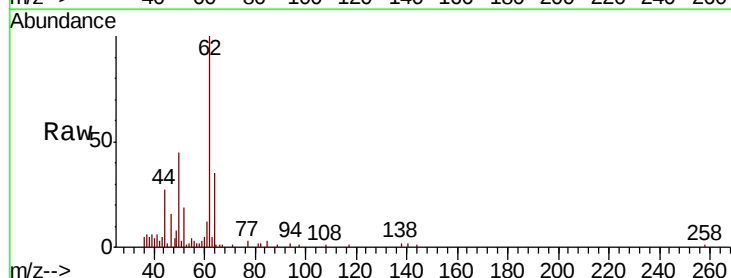
Acq: 26 Nov 2018 18:02

Tgt Ion: 62 Resp: 37901

Ion Ratio Lower Upper

62 100

64 35.4 26.4 39.6





#5

Bromomethane

Concen: 21.137 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 26047

Ion Ratio Lower Upper

94 100

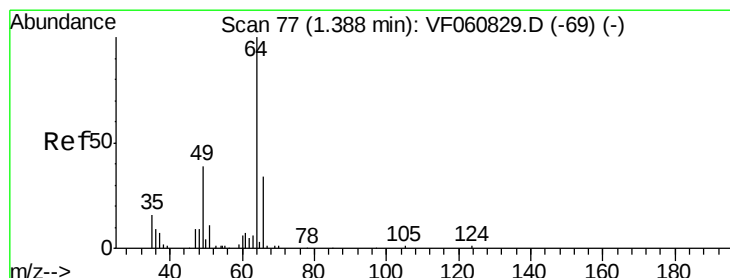
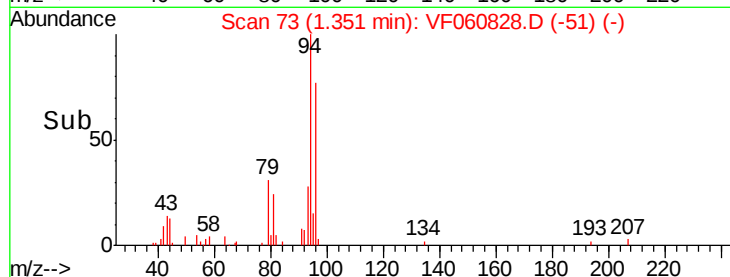
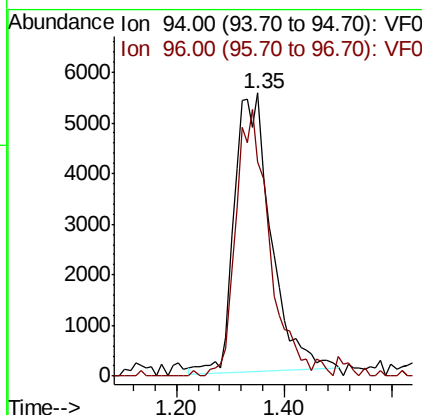
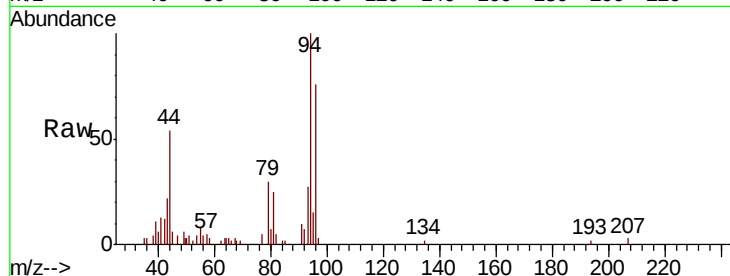
96 75.7 75.9 113.9#

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



#6

Chloroethane

Concen: 21.655 ug/l

RT: 1.41 min Scan# 79

Delta R.T. 0.02 min

Lab File: VF060828.D

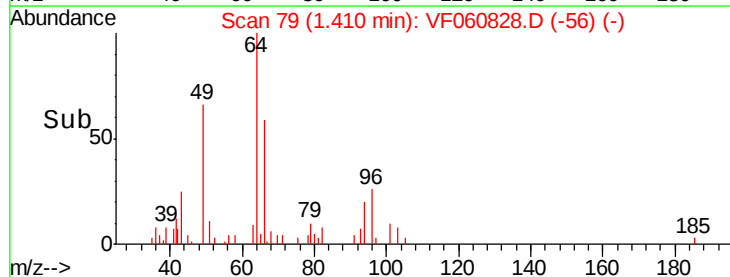
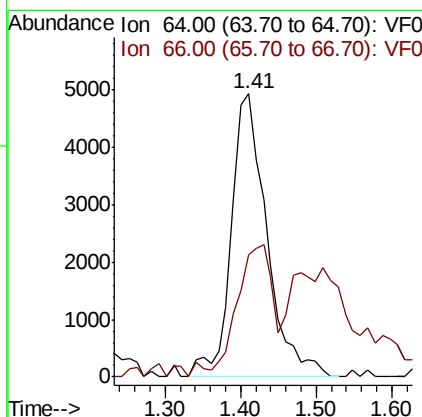
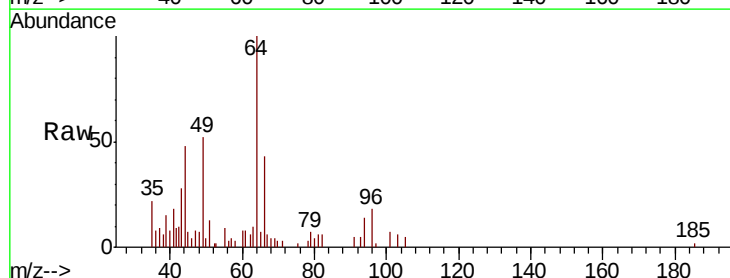
Acq: 26 Nov 2018 18:02

Tgt Ion: 64 Resp: 16127

Ion Ratio Lower Upper

64 100

66 43.4 28.1 42.1#





#7

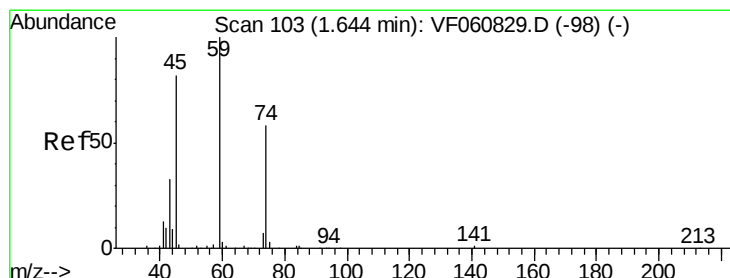
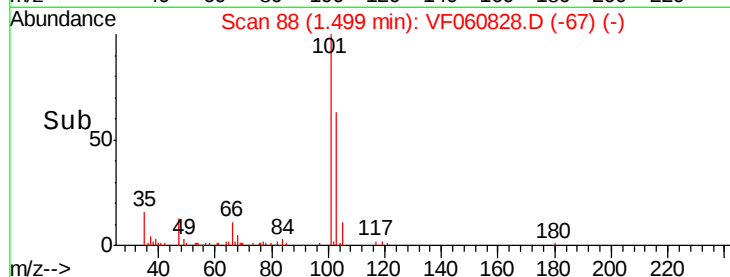
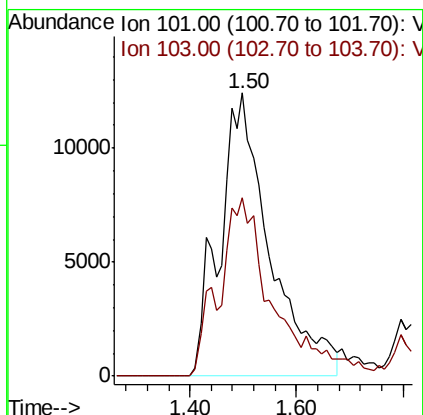
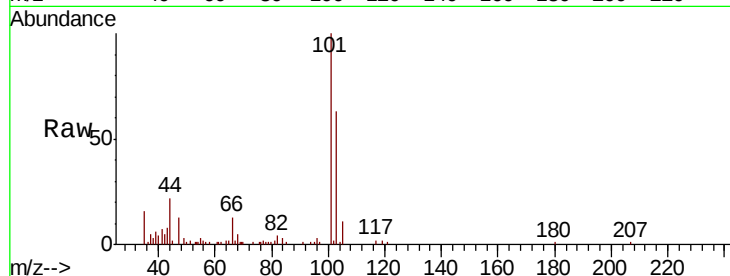
Trichlorofluoromethane
Concen: 19.450 ug/l m
RT: 1.50 min Scan# 88
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion:101 Resp: 81443
Ion Ratio Lower Upper
101 100
103 63.0 55.4 83.0

Manual Integrations
APPROVED

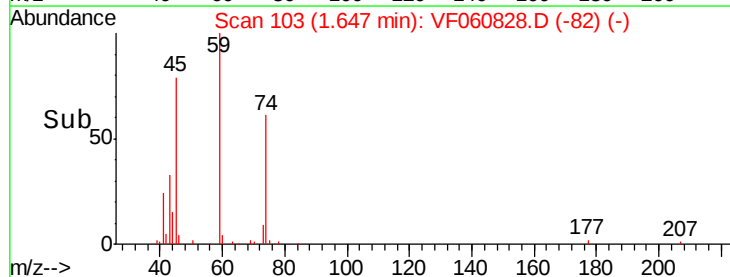
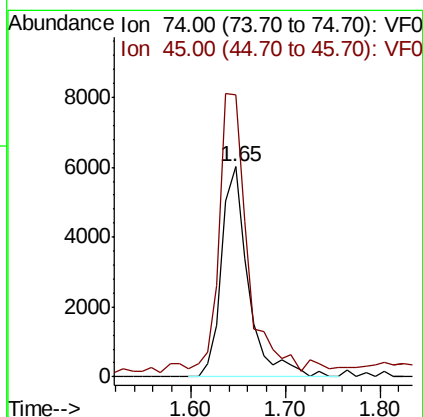
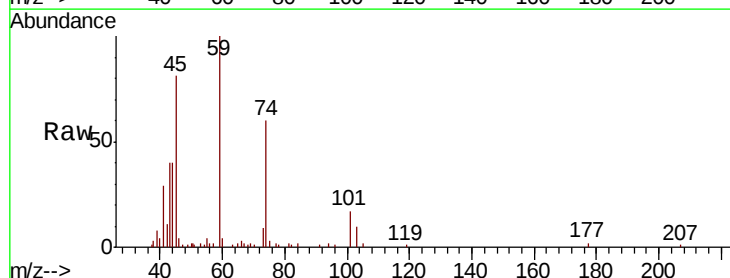
apatel
11/27/2018 3:16:50 PM

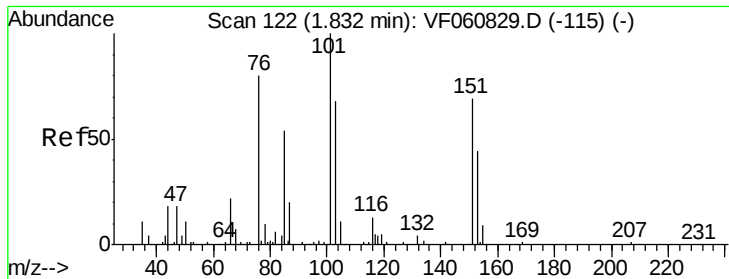


#8

Diethyl Ether
Concen: 21.604 ug/l
RT: 1.65 min Scan# 103
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion: 74 Resp: 11818
Ion Ratio Lower Upper
74 100
45 134.0 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.140 ug/l

RT: 1.85 min Scan# 124

Delta R.T. 0.02 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

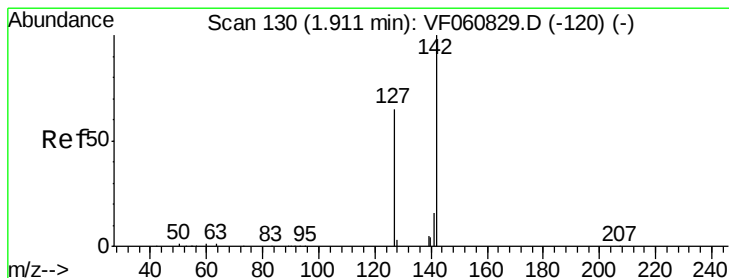
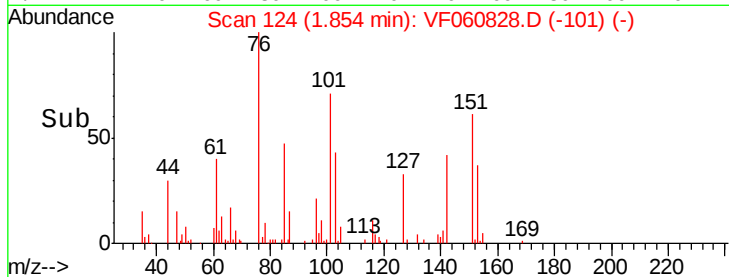
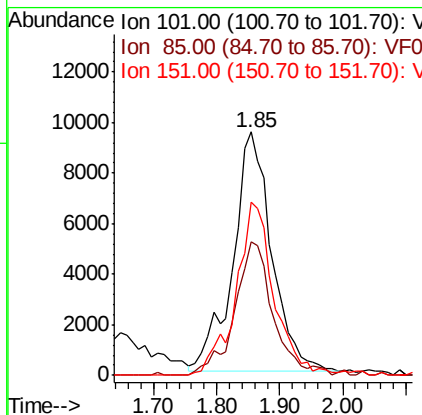
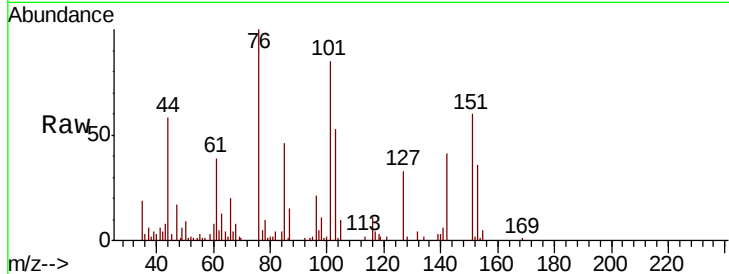
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	40468
Ion Ratio	Lower	Upper	
101	100		
85	54.6	42.8	64.2
151	71.1	54.4	81.6

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#10

Methyl Iodide

Concen: 19.995 ug/l m

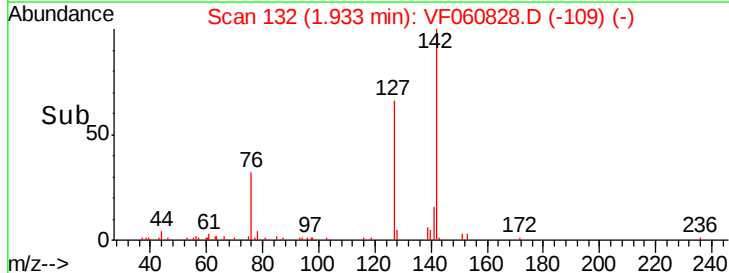
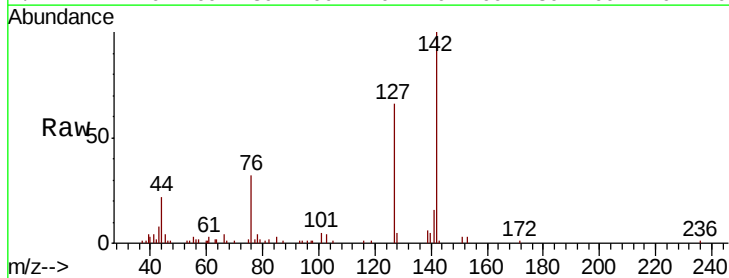
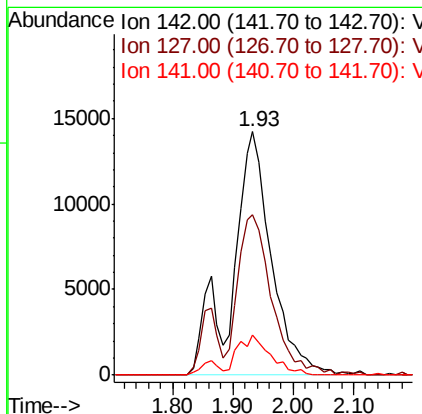
RT: 1.93 min Scan# 132

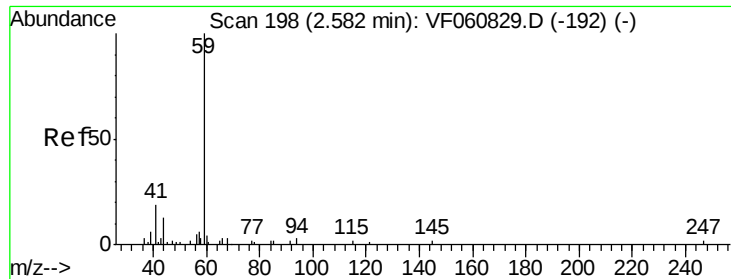
Delta R.T. 0.02 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion:	142	Resp:	64006
Ion Ratio	Lower	Upper	
142	100		
127	65.7	51.9	77.9
141	16.5	12.7	19.1





#11

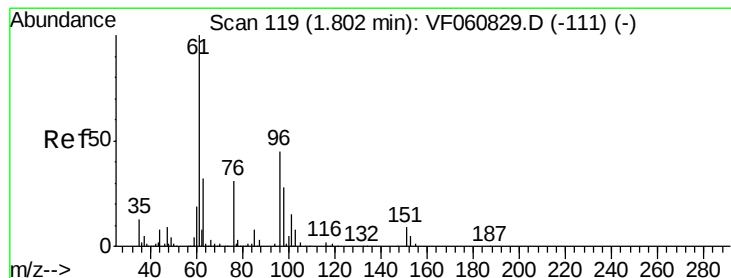
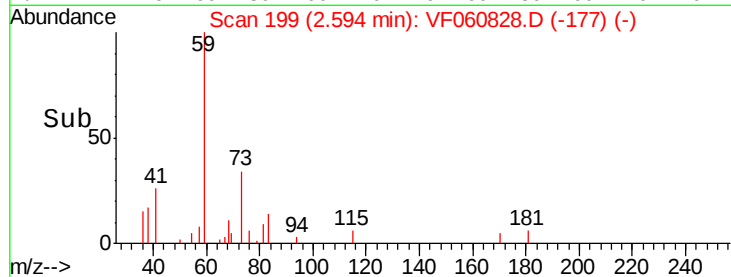
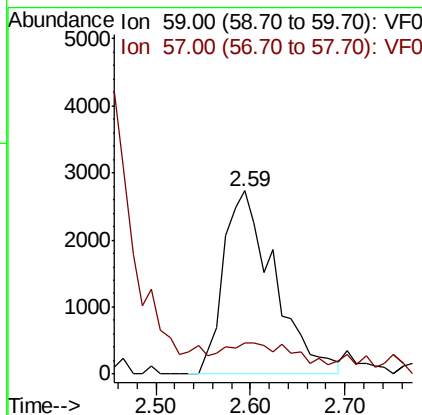
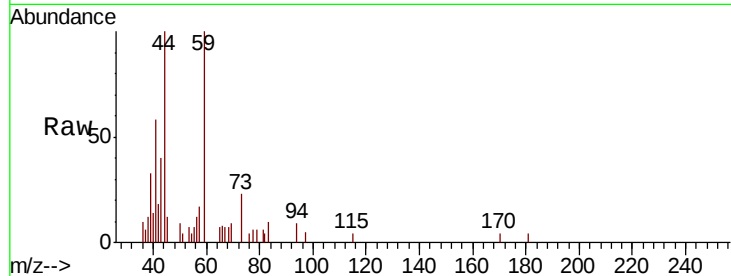
Tert butyl alcohol
Concen: 100.750 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	59	Resp	10173
Ion Ratio	100	Lower	Upper
57	17.3	12.7	19.1

Manual Integrations
APPROVED

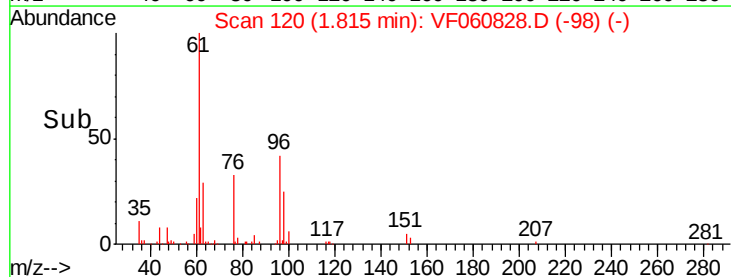
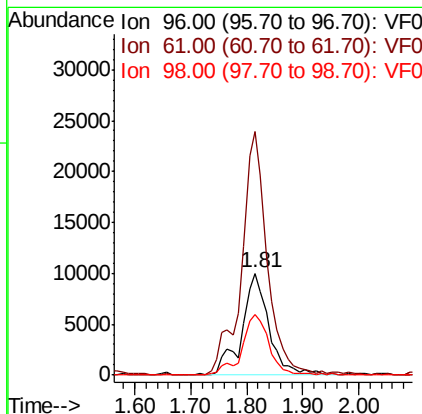
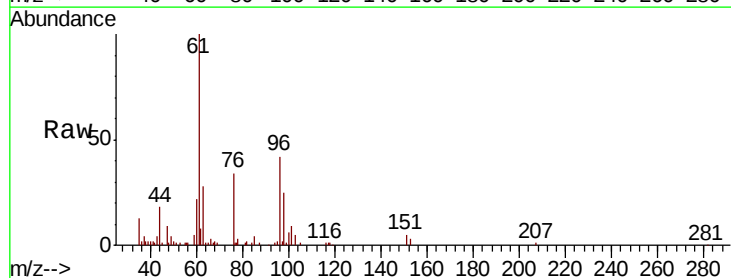
apatel
11/27/2018 3:16:50 PM

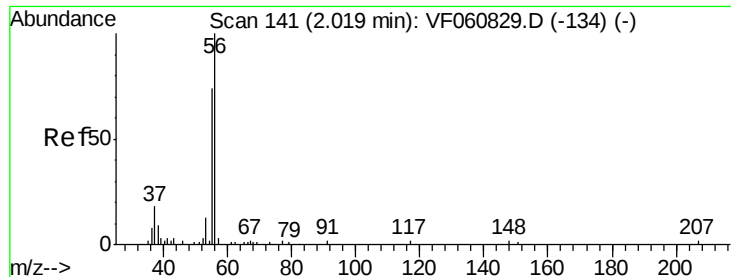


#12

1,1-Dichloroethene
Concen: 20.989 ug/l
RT: 1.81 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	96	Resp	33577
Ion Ratio	100	Lower	Upper
61	239.4	177.3	265.9
98	59.6	49.6	74.4





#13

Acrolein

Concen: 89.492 ug/l m

RT: 2.02 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 8544

Ion Ratio Lower Upper

56 100

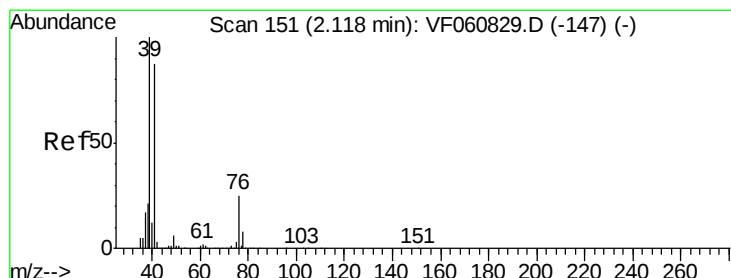
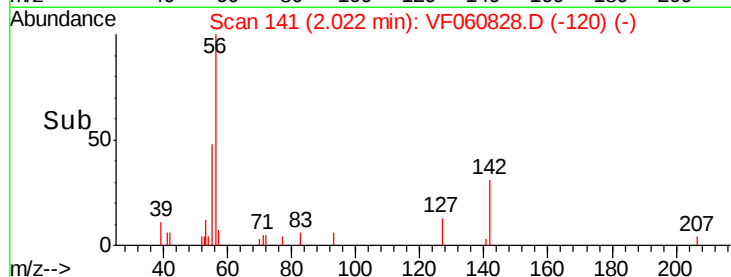
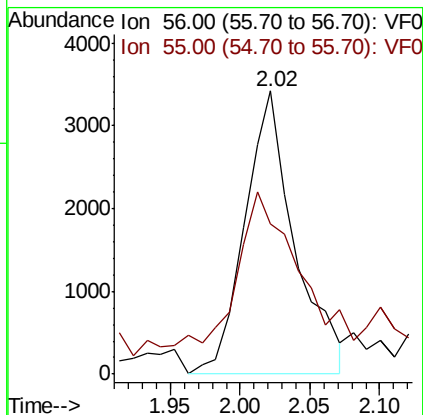
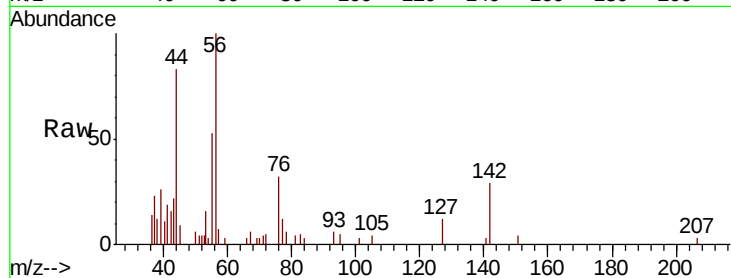
55 53.1 61.2 91.8#

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



#14

Allyl chloride

Concen: 13.663 ug/l

RT: 2.11 min Scan# 150

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

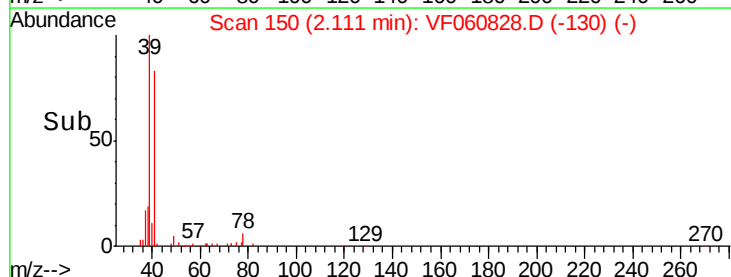
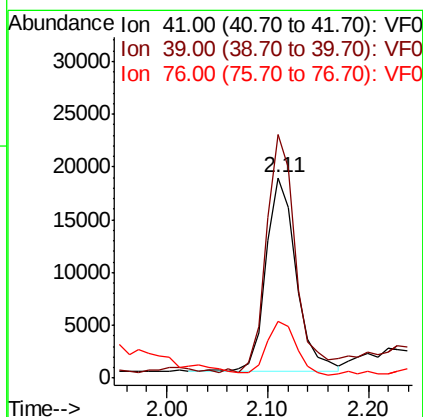
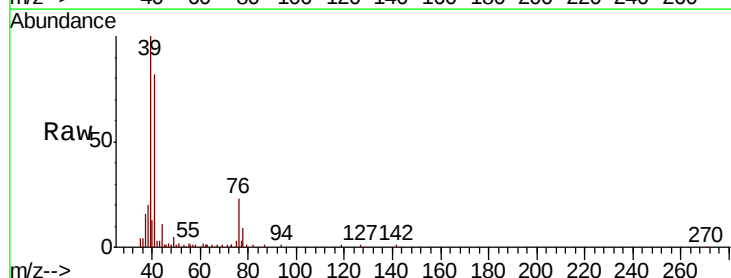
Tgt Ion: 41 Resp: 38049

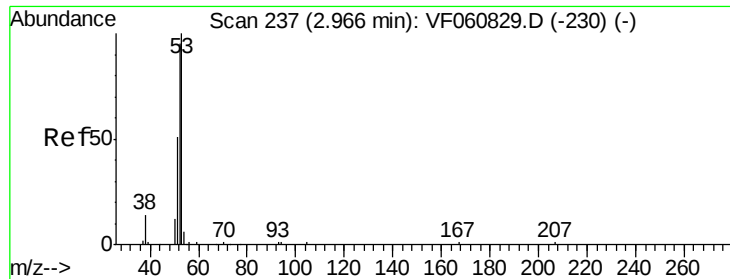
Ion Ratio Lower Upper

41 100

39 121.3 91.7 137.5

76 28.1 23.5 35.3





#15

Acrylonitrile

Concen: 106.158 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

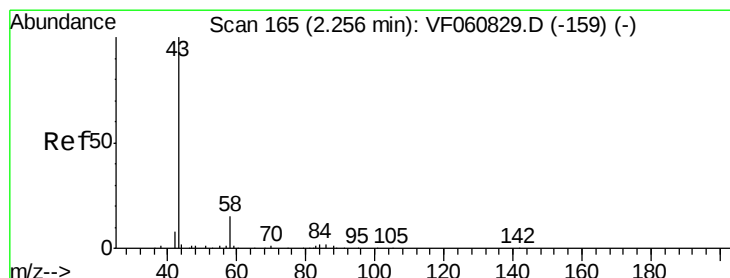
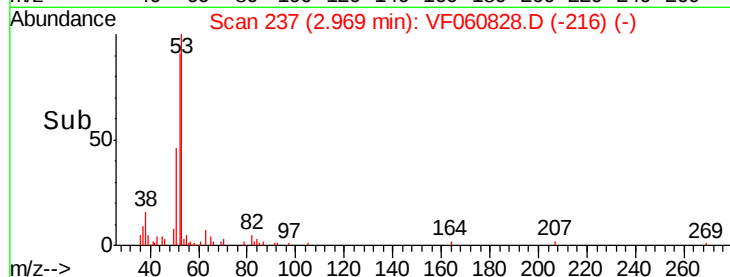
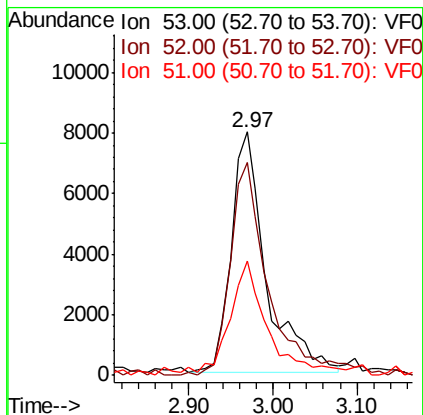
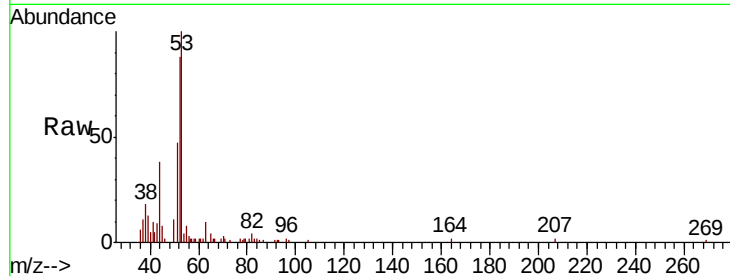
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	22899
Ion	Ratio	Lower	Upper
53	100		
52	87.7	76.5	114.7
51	46.9	40.7	61.1

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#16

Acetone

Concen: 99.144 ug/l

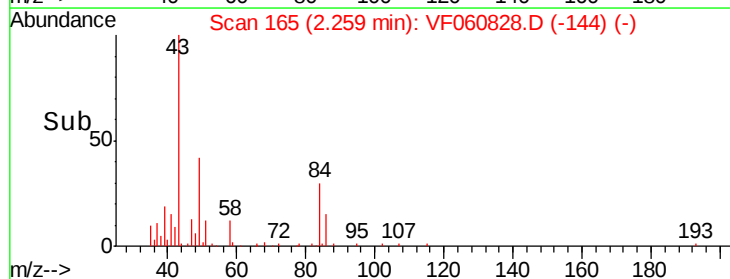
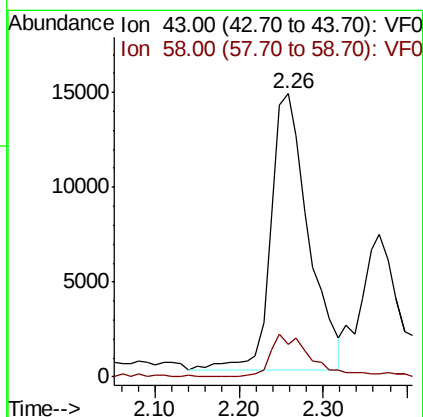
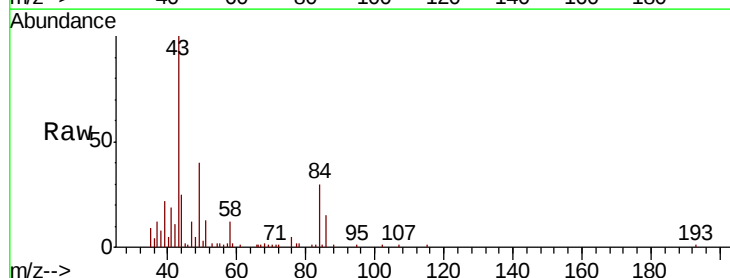
RT: 2.26 min Scan# 165

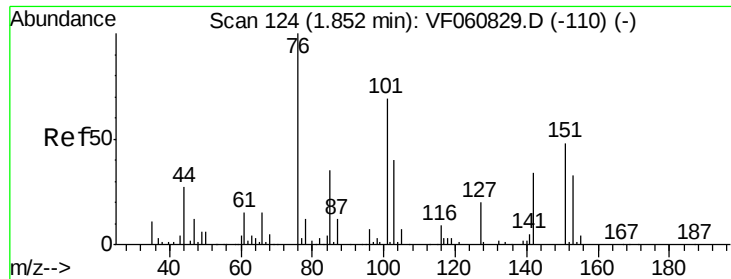
Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion:	43	Resp:	45761
Ion	Ratio	Lower	Upper
43	100		
58	11.7	11.4	17.2





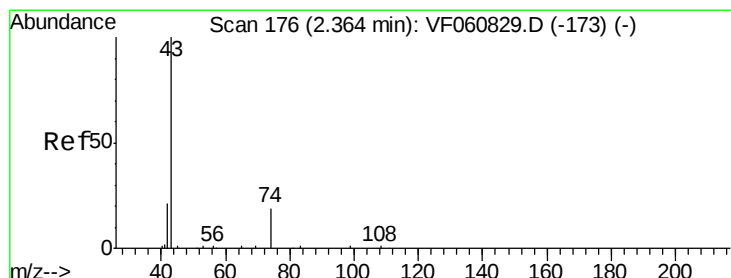
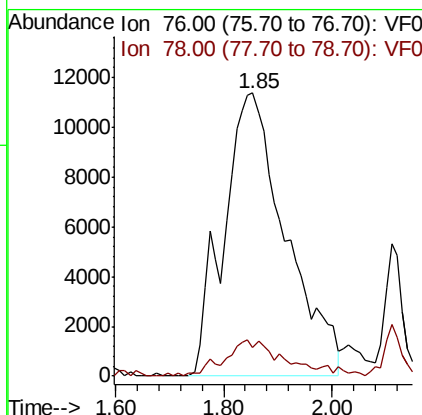
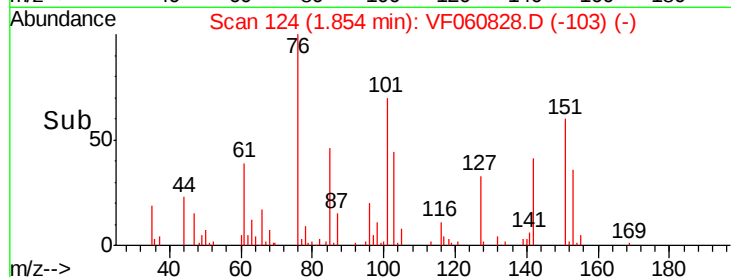
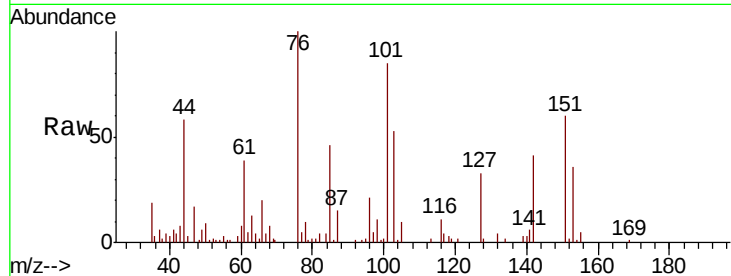
#17
Carbon Disulfide
Concen: 19.393 ug/l m
RT: 1.85 min Scan# 124
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 76 Resp: 91060
Ion Ratio Lower Upper
76 100
78 10.2 10.2 15.2

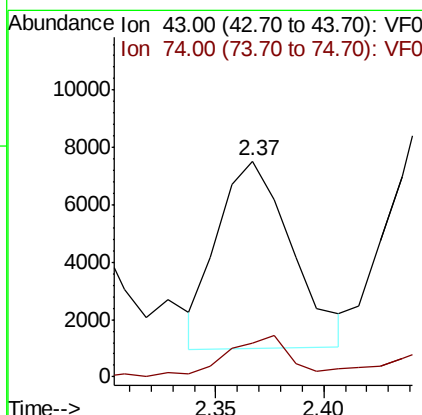
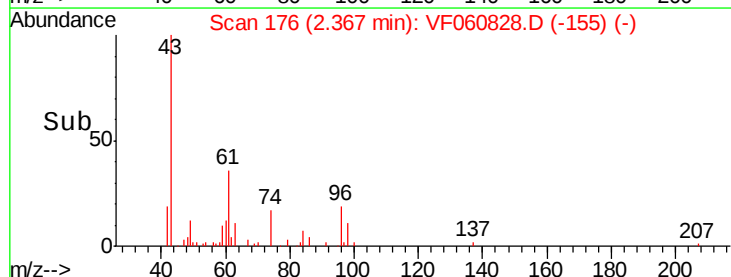
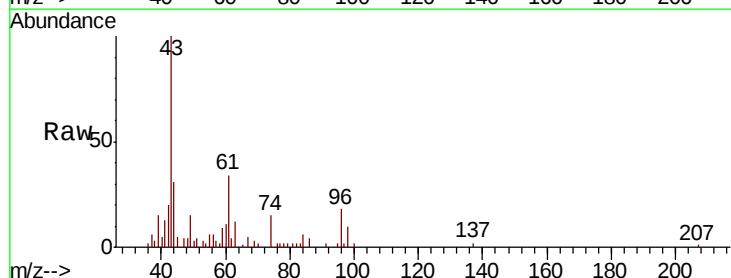
Manual Integrations
APPROVED

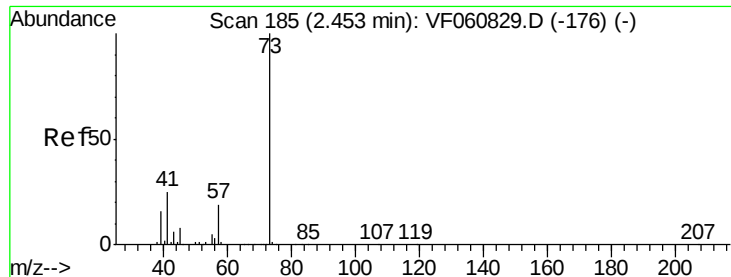
apatel
11/27/2018 3:16:50 PM



#18
Methyl Acetate
Concen: 20.269 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion: 43 Resp: 15626
Ion Ratio Lower Upper
43 100
74 15.5 13.3 19.9





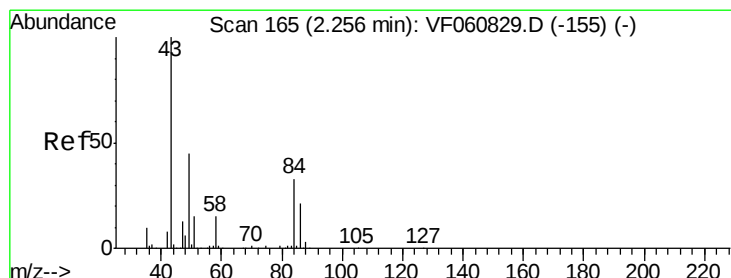
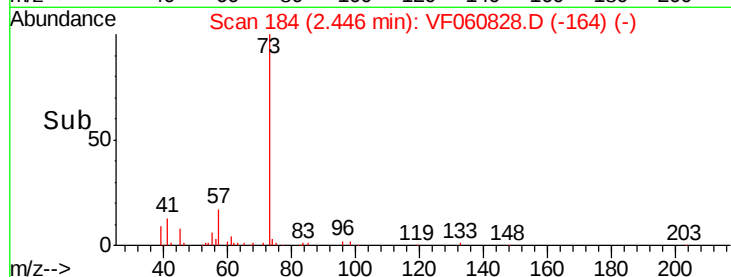
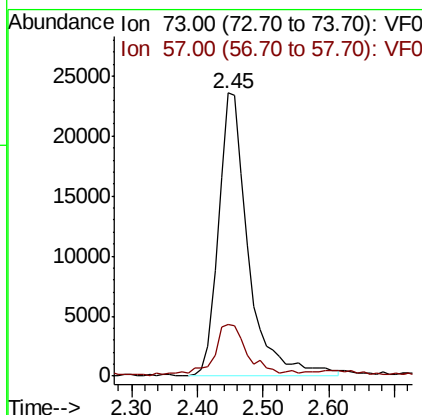
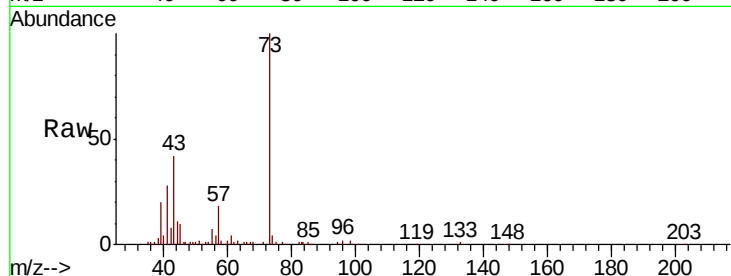
#19
Methvl tert-butvl Ether
Concen: 19.806 ug/l
RT: 2.45 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 74756
Ion Ratio Lower Upper
73 100
57 18.1 15.3 22.9

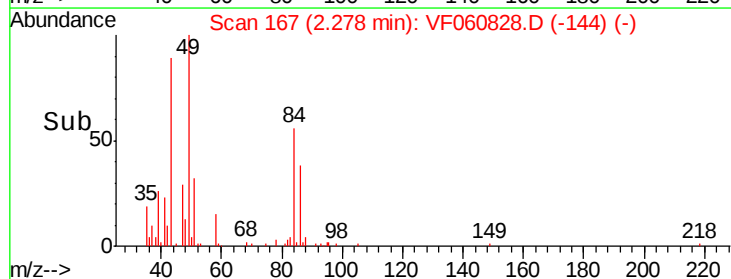
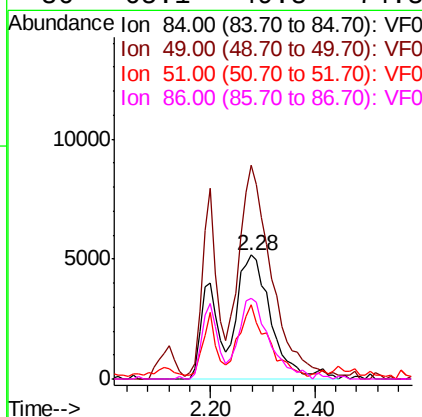
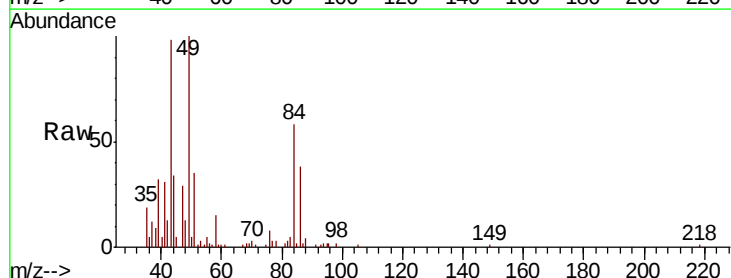
Manual Integrations
APPROVED

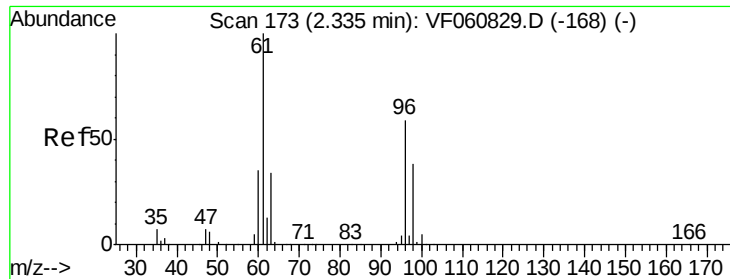
apatel
11/27/2018 3:16:50 PM



#20
Methylene Chloride
Concen: 18.274 ug/l m
RT: 2.28 min Scan# 167
Delta R.T. 0.02 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion: 84 Resp: 32474
Ion Ratio Lower Upper
84 100
49 172.7 111.3 166.9#
51 59.8 38.0 57.0#
86 65.1 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.979 ug/l m

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

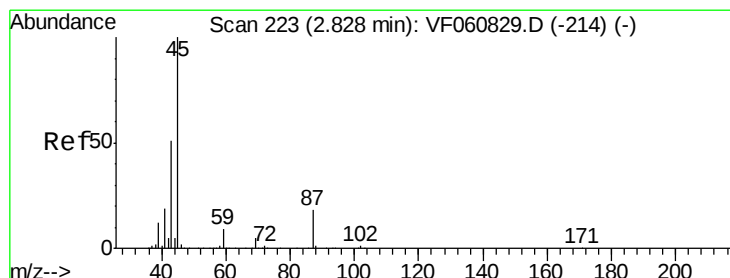
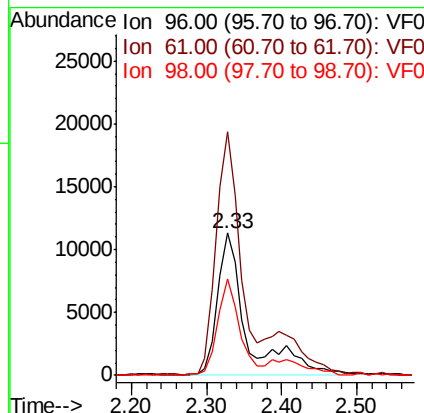
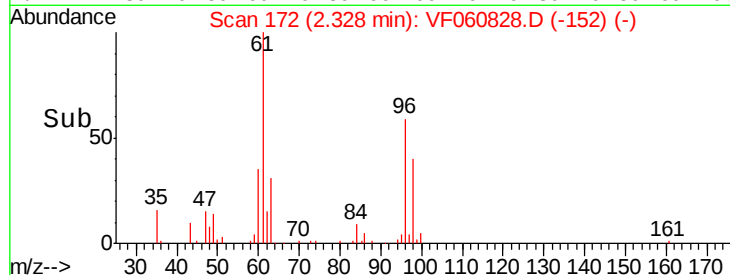
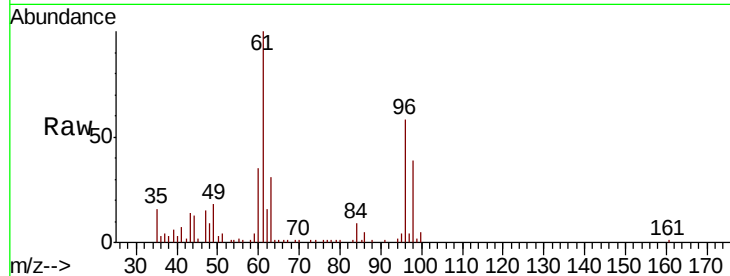
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	30922
Ion	Ratio	Lower	Upper
96	100		
61	171.4	134.5	201.7
98	67.5	51.6	77.4

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#22

Diisopropyl ether

Concen: 20.966 ug/l

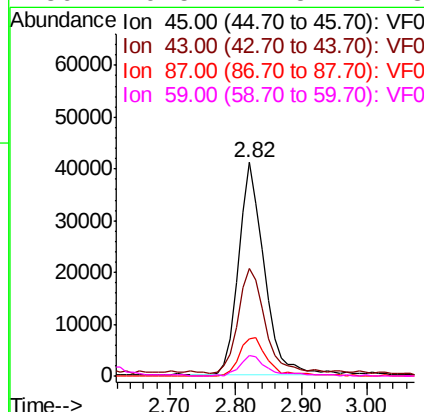
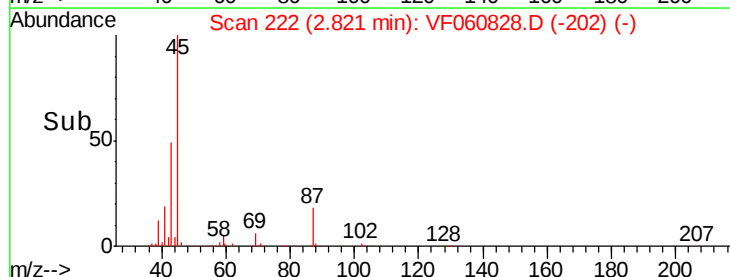
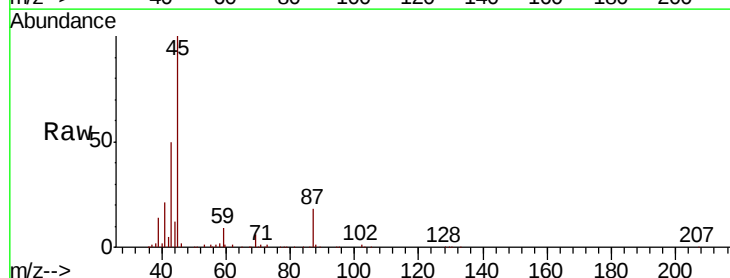
RT: 2.82 min Scan# 222

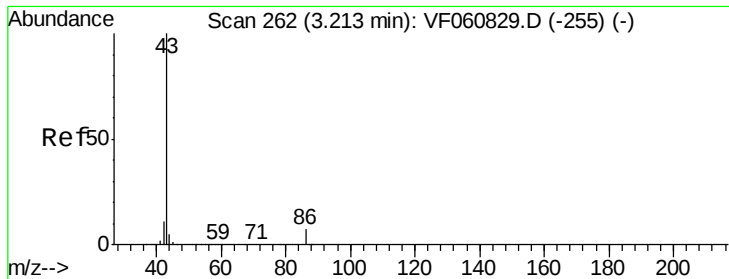
Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion:	45	Resp:	112926
Ion	Ratio	Lower	Upper
45	100		
43	50.4	41.0	61.6
87	17.7	14.6	22.0
59	9.5	7.5	11.3





#23

Vinyl Acetate

Concen: 103.528 ug/l

RT: 3.22 min Scan# 262

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 259551

Ion Ratio Lower Upper

43 100

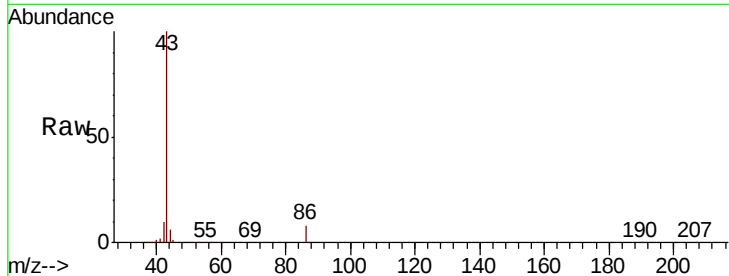
86 7.8 5.4 8.0

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

120000

100000

80000

60000

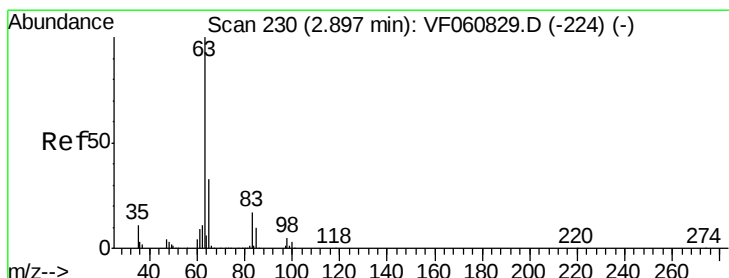
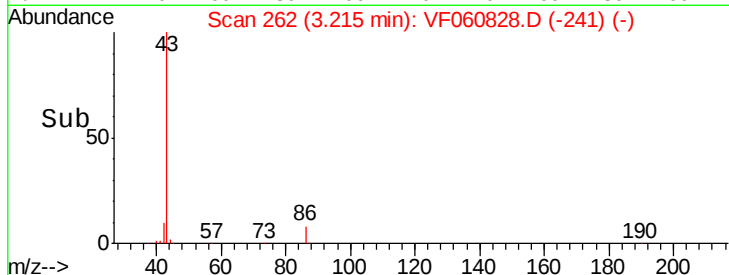
40000

20000

0

3.10 3.20 3.30

Time-->



#24

1,1-Dichloroethane

Concen: 19.104 ug/l

RT: 2.90 min Scan# 230

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

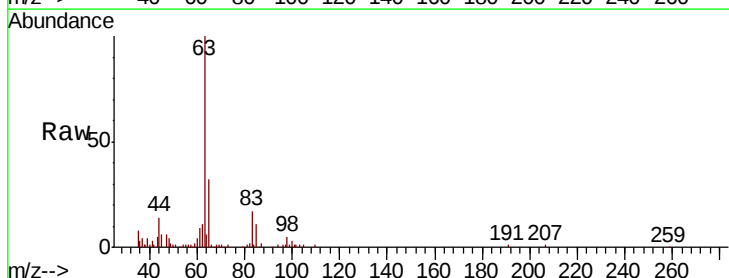
Tgt Ion: 63 Resp: 62904

Ion Ratio Lower Upper

63 100

98 5.4 2.7 8.1

100 3.0 1.5 4.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

30000

25000

20000

15000

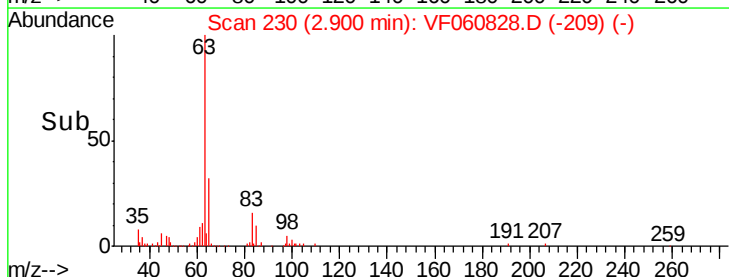
10000

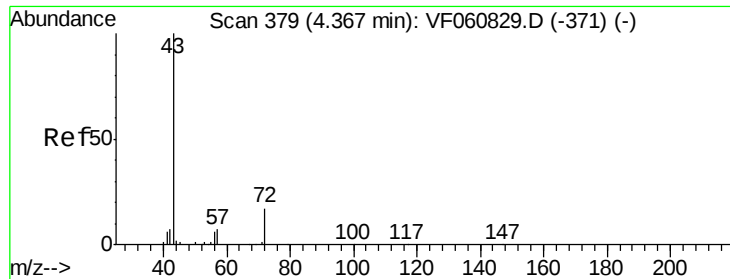
5000

0

2.80 2.90 3.00

Time-->





#25

2-Butanone

Concen: 98.413 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 76620

Ion Ratio Lower Upper

43 100

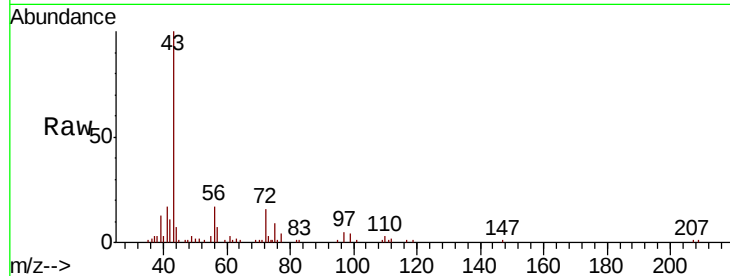
72 16.4 15.4 23.2

Manual Integrations

APPROVED

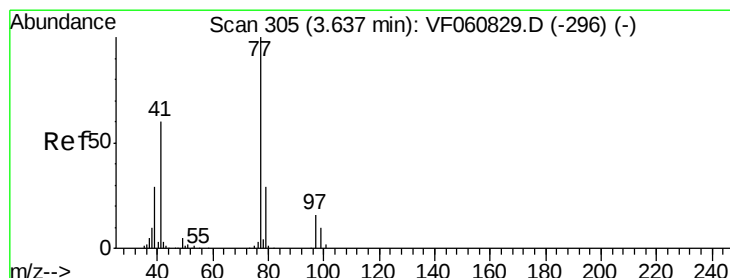
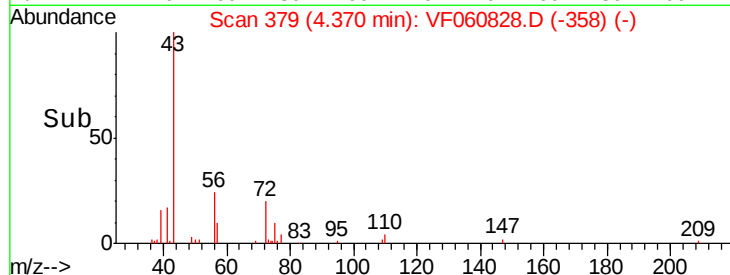
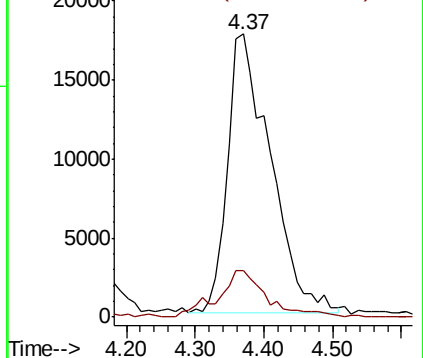
apatel

11/27/2018 3:16:50 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 16.765 ug/l

RT: 3.63 min Scan# 304

Delta R.T. -0.01 min

Lab File: VF060828.D

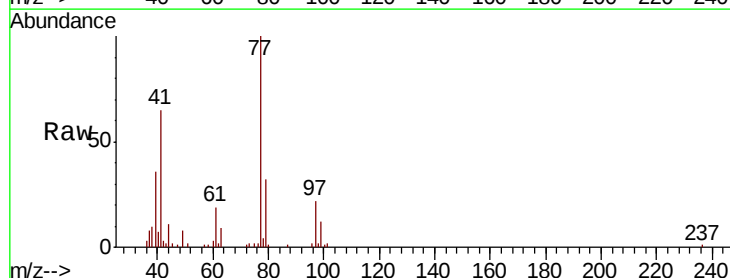
Acq: 26 Nov 2018 18:02

Tgt Ion: 77 Resp: 41987

Ion Ratio Lower Upper

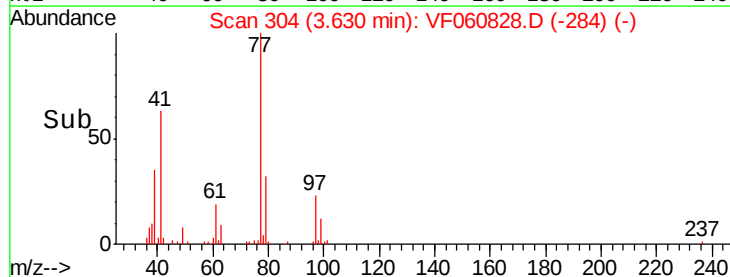
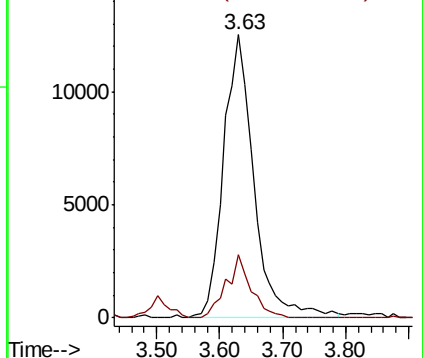
77 100

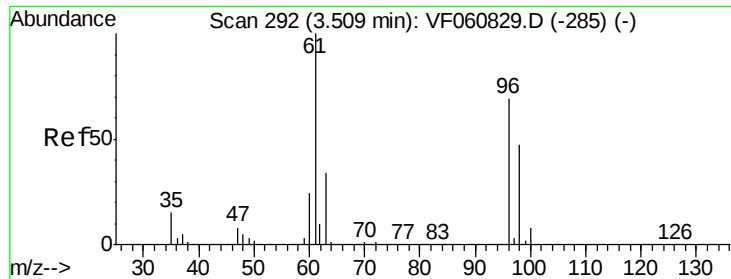
97 22.3 8.6 25.8



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

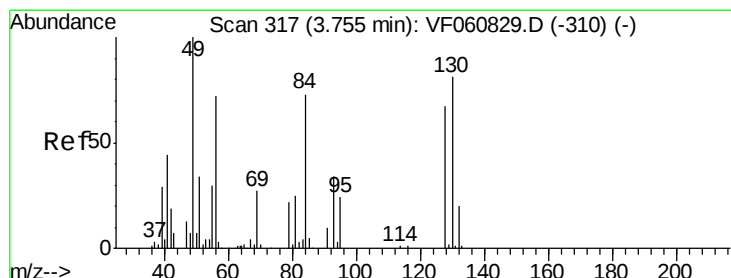
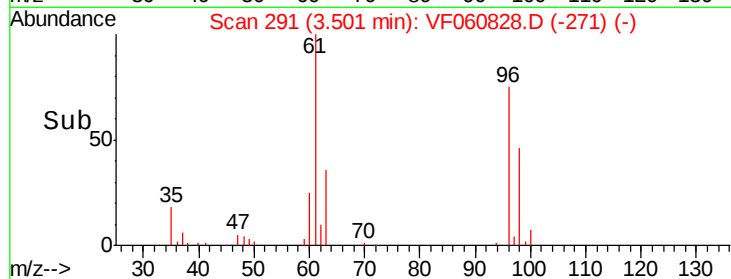
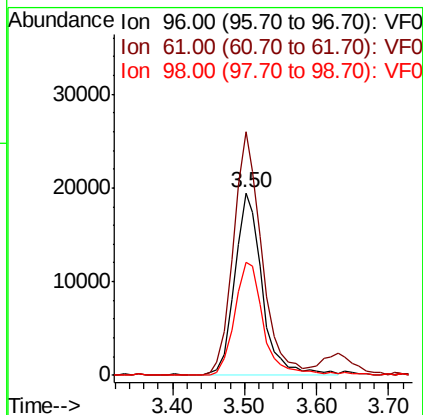
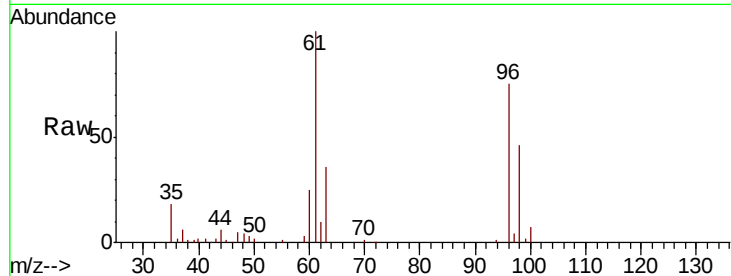
cis-1,2-Dichloroethene
Concen: 18.699 ug/l
RT: 3.50 min Scan# 291
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.3	0.0	290.6
98	61.8	0.0	137.8

Manual Integrations
APPROVED

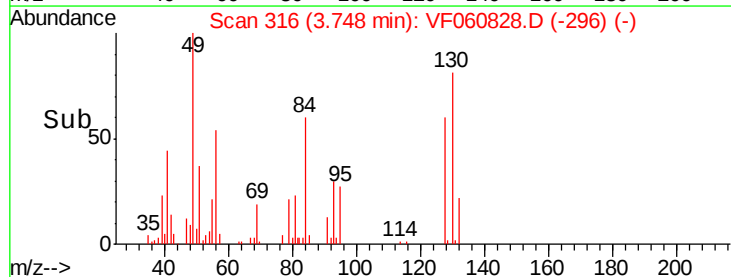
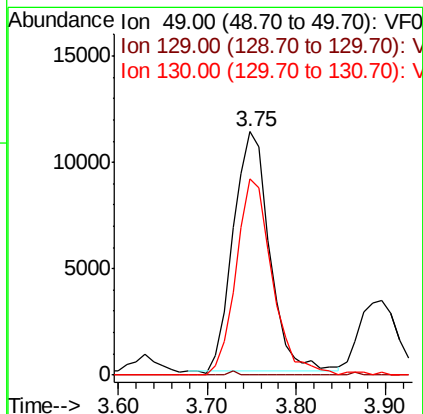
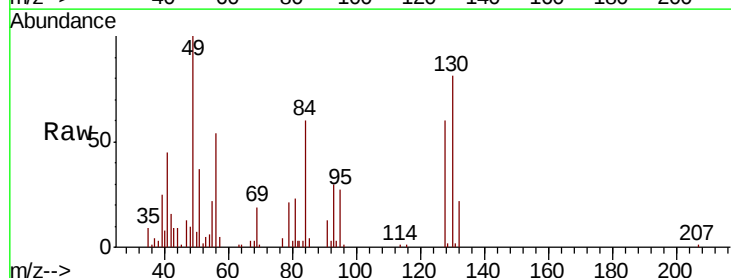
apatel
11/27/2018 3:16:50 PM



#28

Bromochloromethane
Concen: 19.333 ug/l
RT: 3.75 min Scan# 316
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	80.6	64.2	96.4





#29

Tetrahydrofuran

Concen: 104.886 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

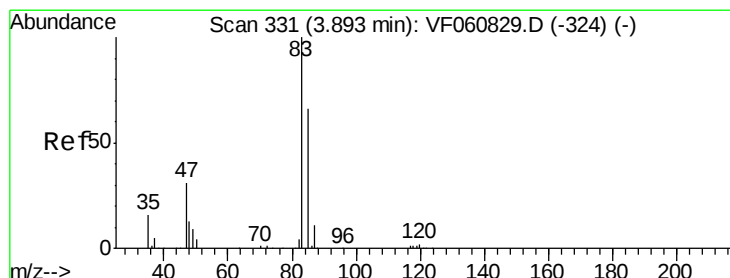
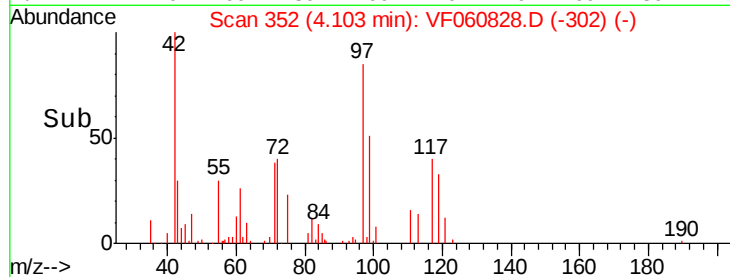
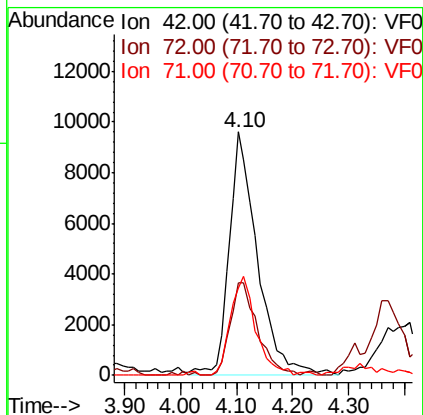
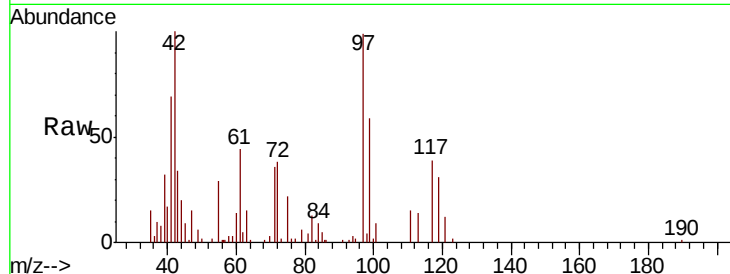
ClientSampleId :

VSTDIC020

Tot Ion:	42	Resp:	33741
Ion	Ratio	Lower	Upper
42	100		
72	36.7	31.9	47.9
71	36.1	28.7	43.1

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#30

Chloroform

Concen: 20.072 ug/l

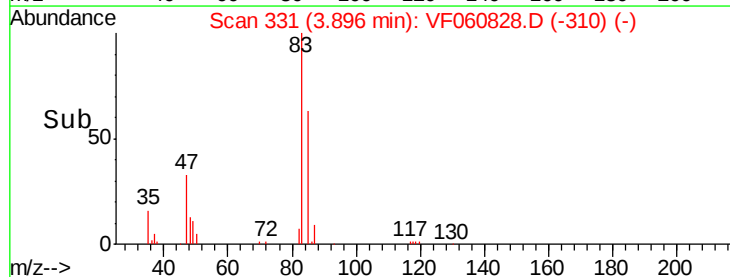
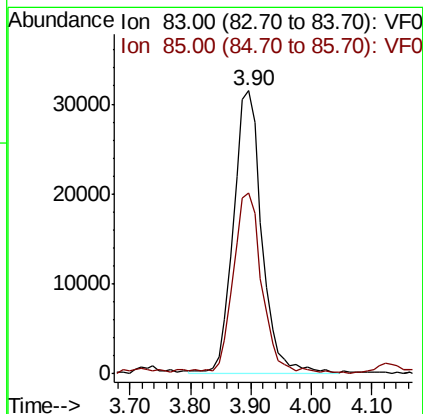
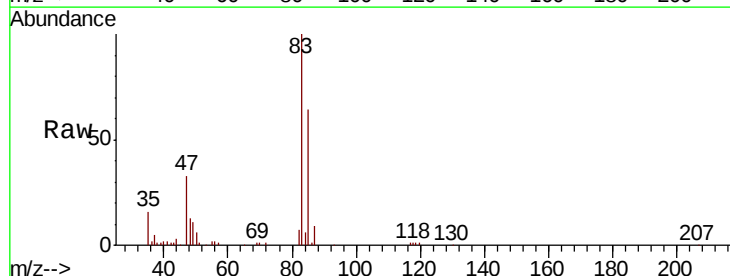
RT: 3.90 min Scan# 331

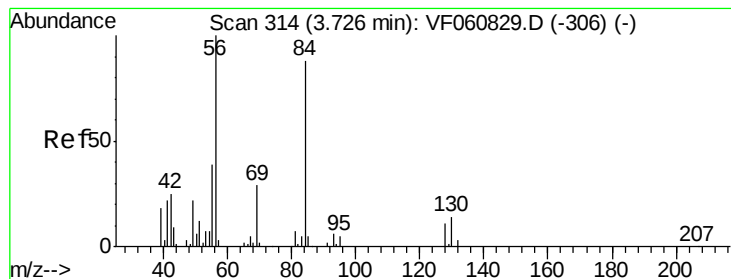
Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion:	83	Resp:	103406
Ion	Ratio	Lower	Upper
83	100		
85	64.1	53.4	80.2





#31

Cvclohexane

Concen: 18.235 ug/l m

RT: 3.72 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

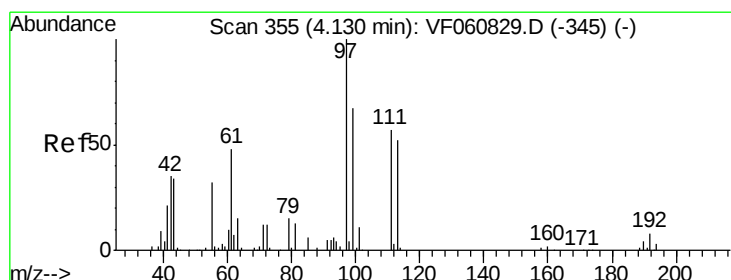
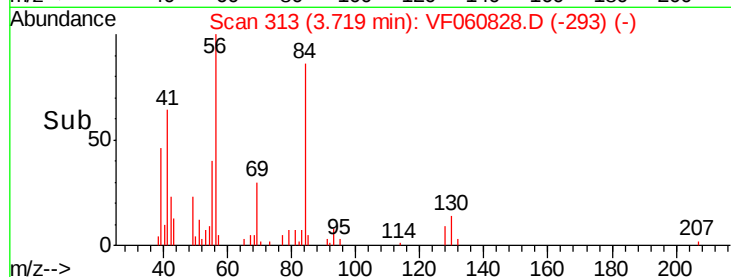
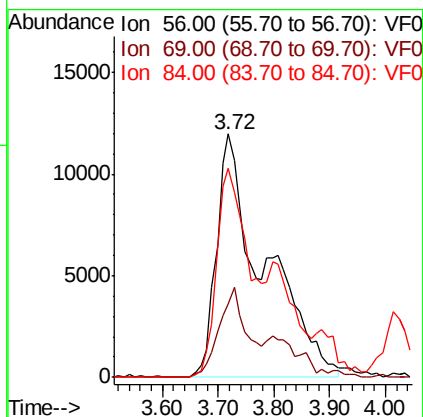
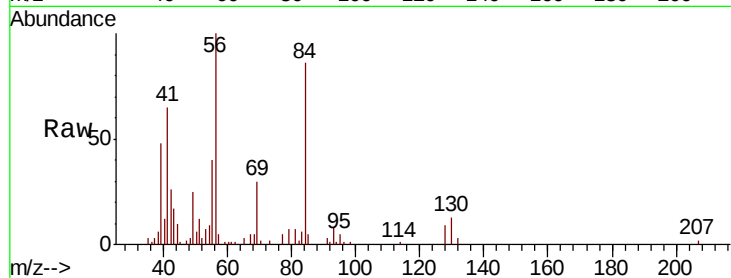
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	70358
Ion Ratio	Lower	Upper	
56	100		
69	30.2	23.0	34.4
84	85.7	70.4	105.6

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#32

1,1,1-Trichloroethane

Concen: 17.384 ug/l m

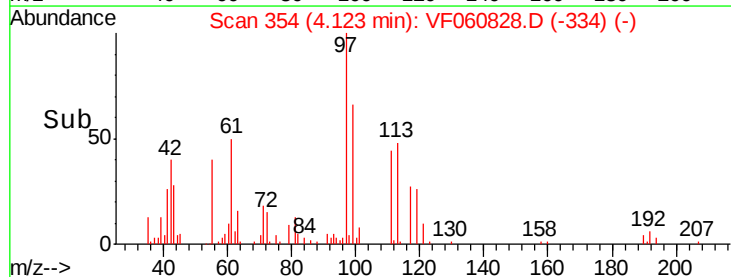
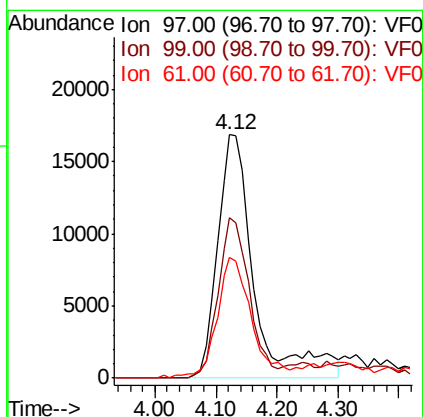
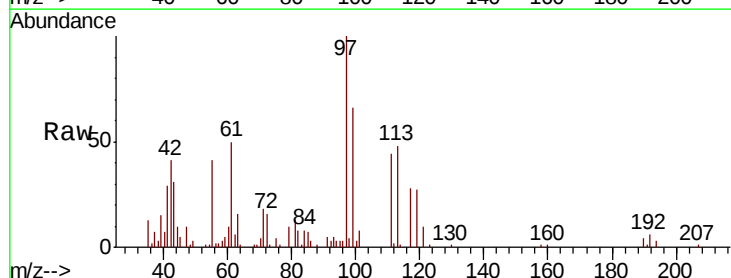
RT: 4.12 min Scan# 354

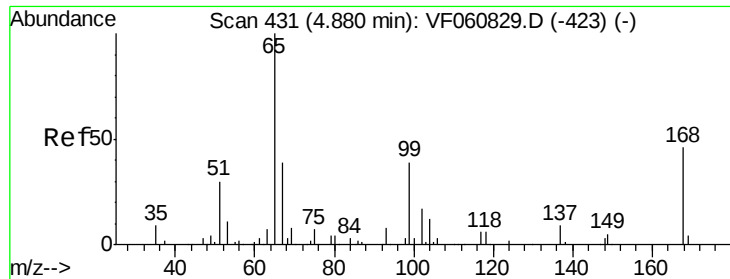
Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion:	97	Resp:	70307
Ion Ratio	Lower	Upper	
97	100		
99	65.8	53.5	80.3
61	49.7	38.6	58.0





#33

1,2-Dichloroethane-d4

Concen: 21.111 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 48286

Ion Ratio Lower Upper

65 100

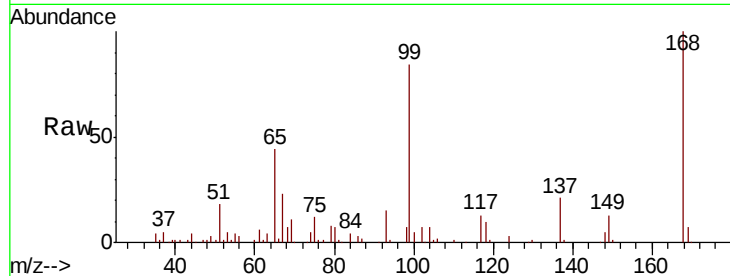
67 52.9 0.0 96.4

Manual Integrations

APPROVED

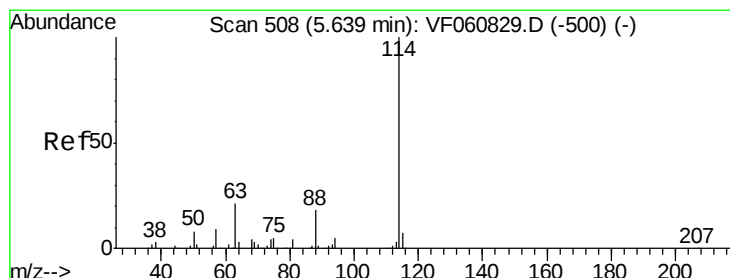
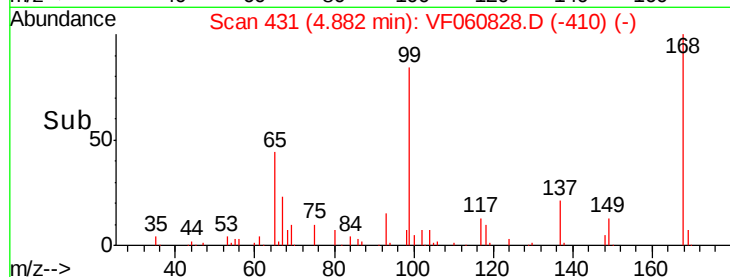
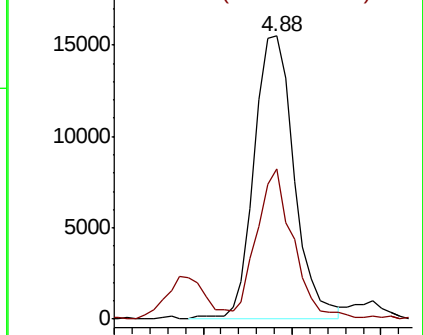
apatel

11/27/2018 3:16:50 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

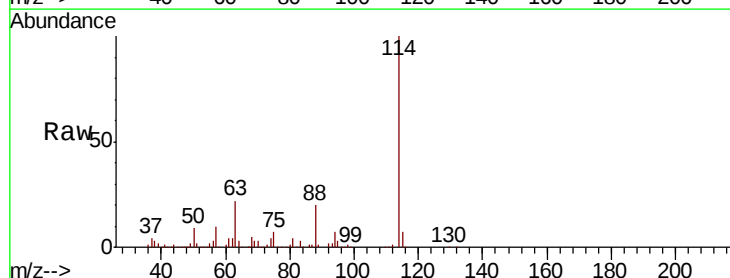
Tgt Ion: 114 Resp: 318777

Ion Ratio Lower Upper

114 100

63 21.9 0.0 41.6

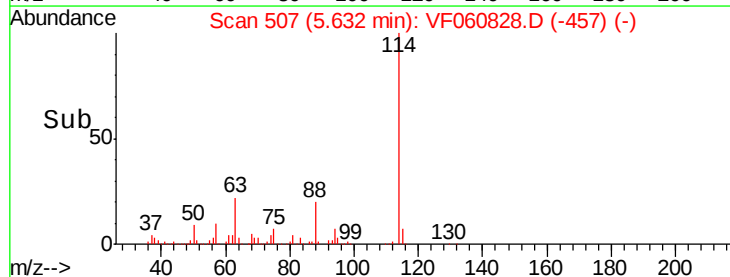
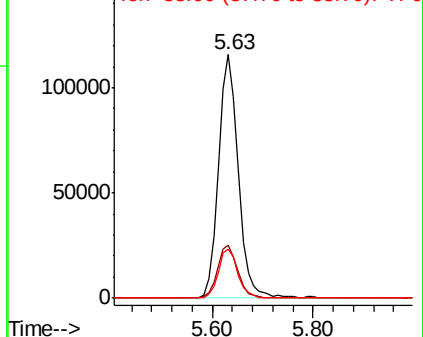
88 20.1 0.0 36.6



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





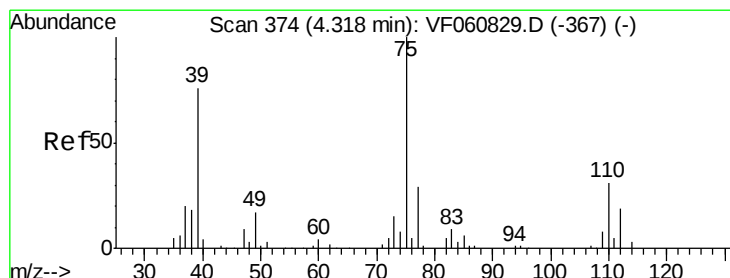
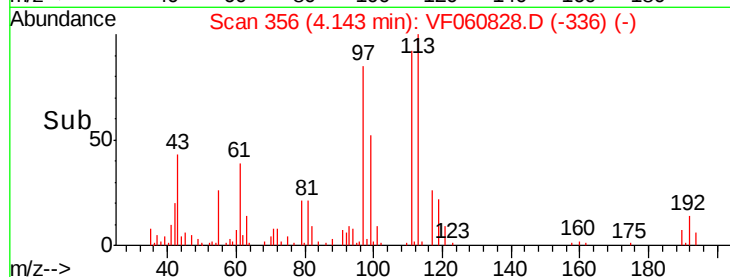
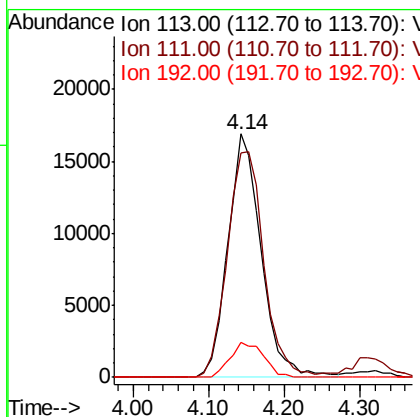
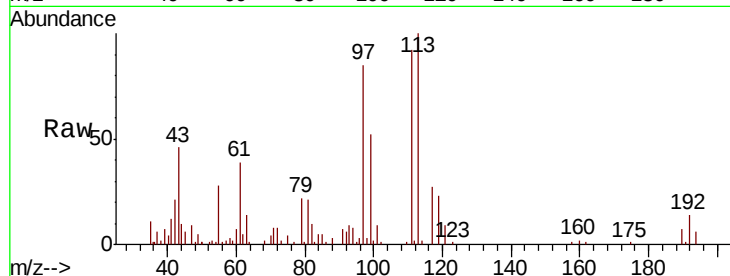
#35
 Dibromofluoromethane
 Concen: 20.897 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	92.3	83.0	124.6
192	14.1	12.3	18.5

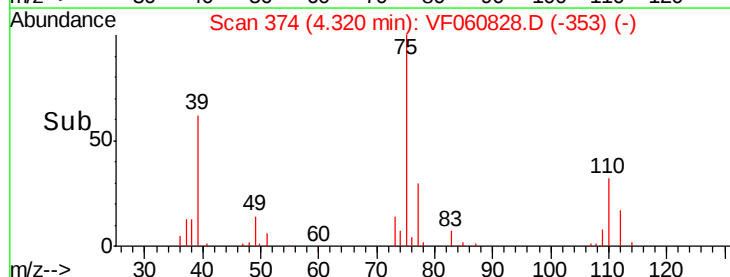
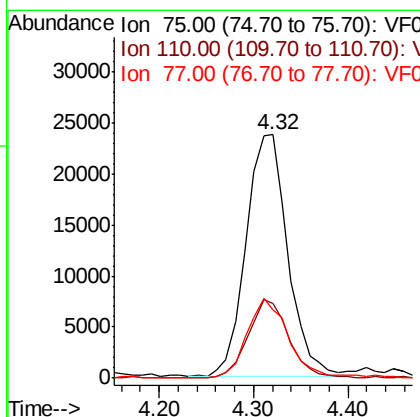
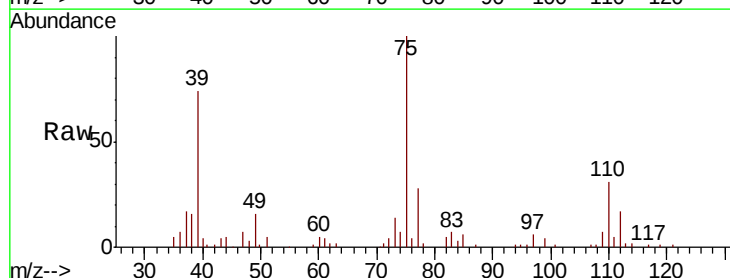
Manual Integrations
 APPROVED

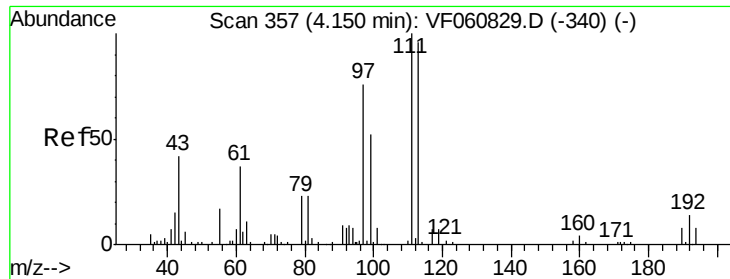
apatel
 11/27/2018 3:16:50 PM



#36
 1,1-Dichloropropene
 Concen: 19.659 ug/l
 RT: 4.32 min Scan# 374
 Delta R.T. 0.00 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	30.7	15.6	46.8
77	28.0	23.4	35.0





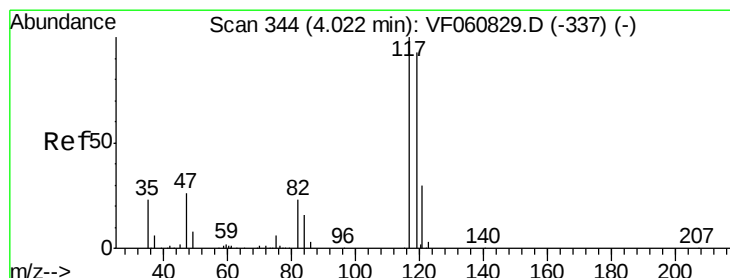
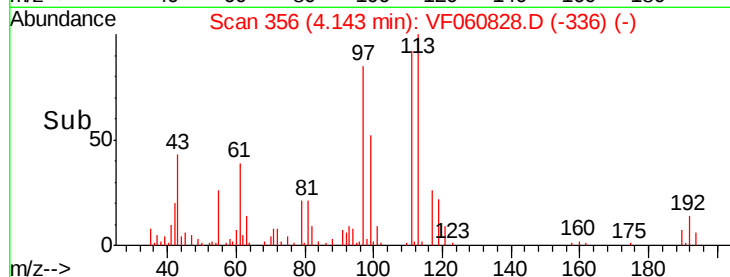
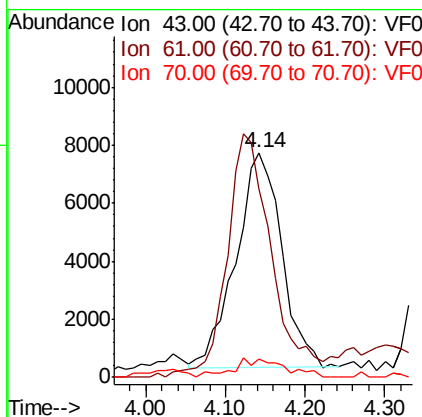
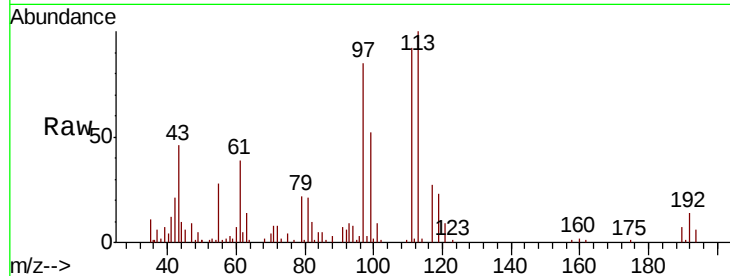
#37
Ethyl Acetate
Concen: 21.457 ug/l
RT: 4.14 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	43	61	70	Ratio	Lower	Upper
29782	100	84.2	8.0			
		68.6	9.0			
		103.0	13.4			

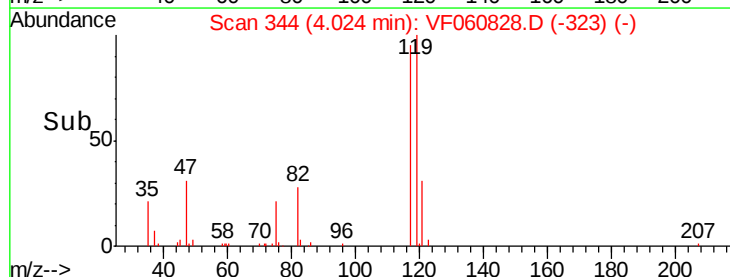
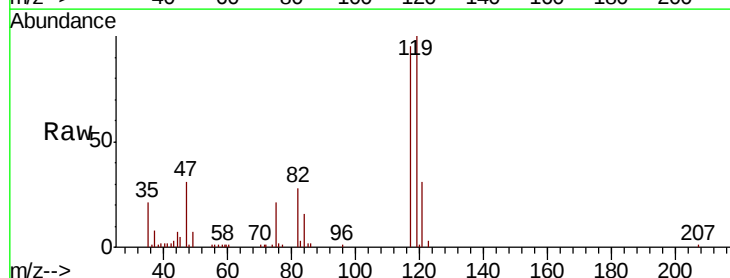
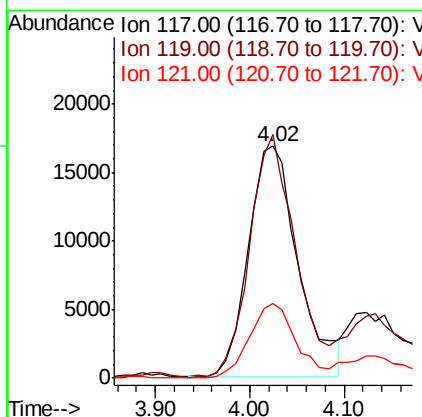
Manual Integrations
APPROVED

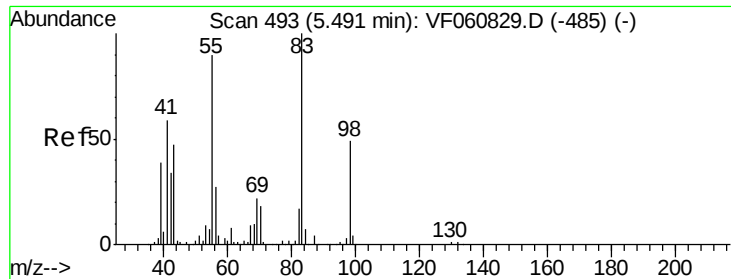
apatel
11/27/2018 3:16:50 PM



#38
Carbon Tetrachloride
Concen: 17.138 ug/l
RT: 4.02 min Scan# 344
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	117	119	121	Ratio	Lower	Upper
61308	100	105.0	32.1			
		74.4	23.5			
		111.6	35.3			





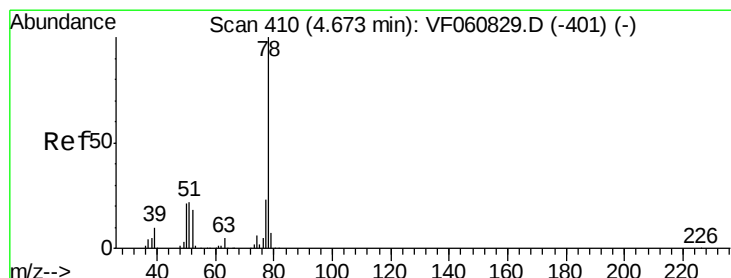
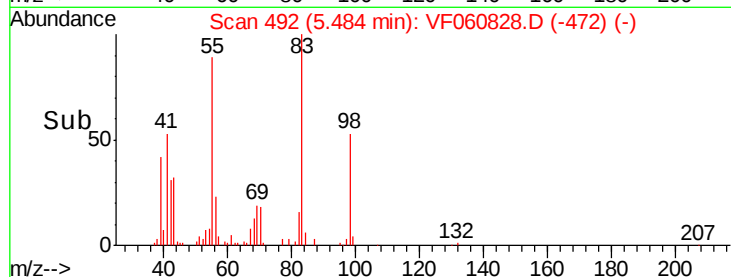
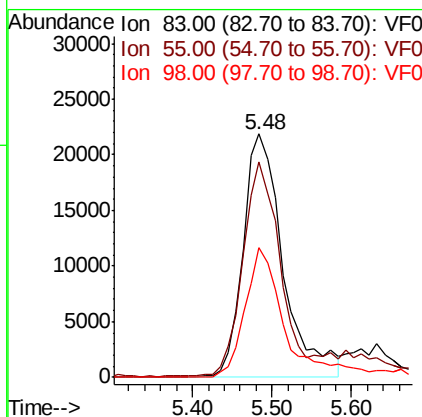
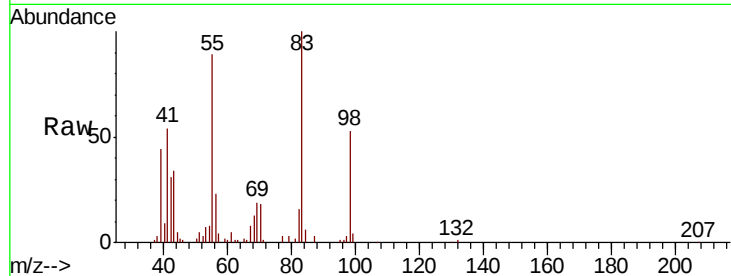
#39
Methvlcvclohexane
Concen: 18.143 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	76075
Ion Ratio	Lower	Upper	
83	100		
55	88.7	72.1	108.1
98	53.1	39.1	58.7

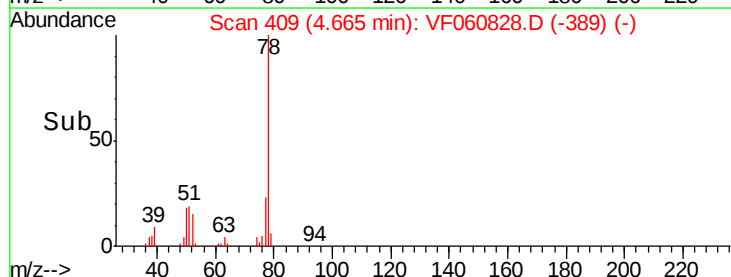
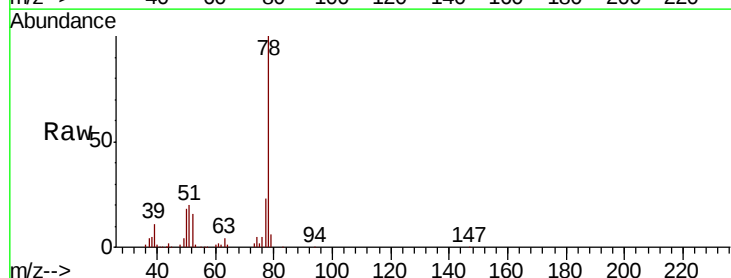
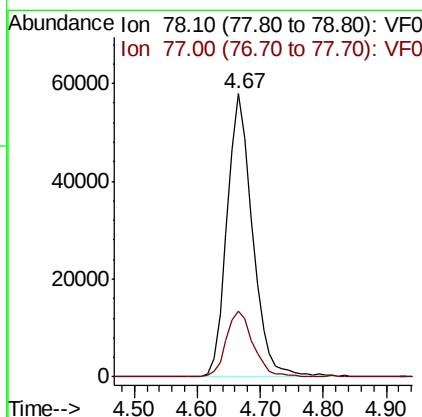
Manual Integrations
APPROVED

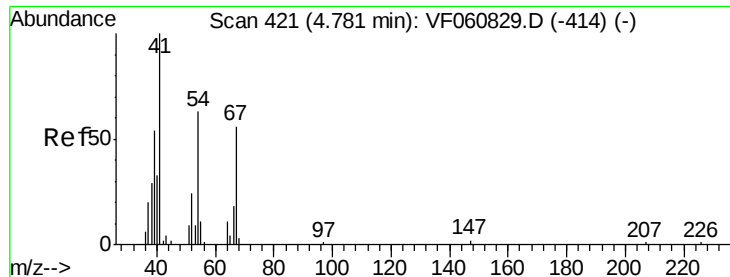
apatel
11/27/2018 3:16:50 PM



#40
Benzene
Concen: 19.934 ug/l
RT: 4.67 min Scan# 409
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	78	Resp	163031
Ion Ratio	Lower	Upper	
78	100		
77	23.2	18.7	28.1





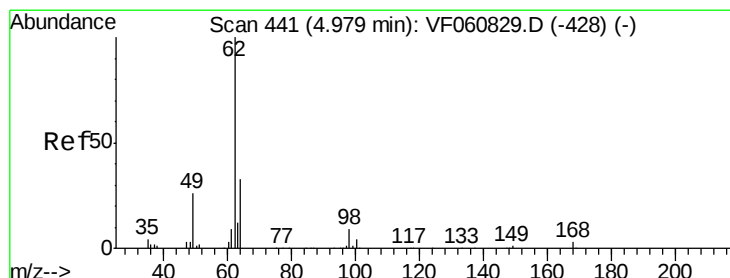
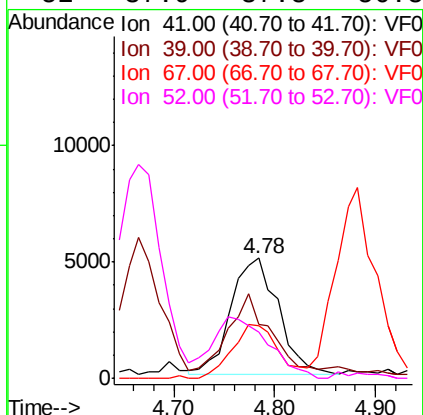
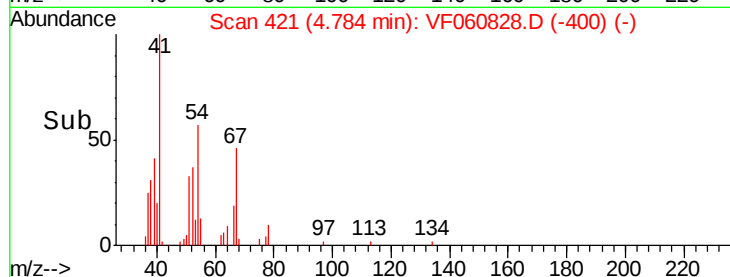
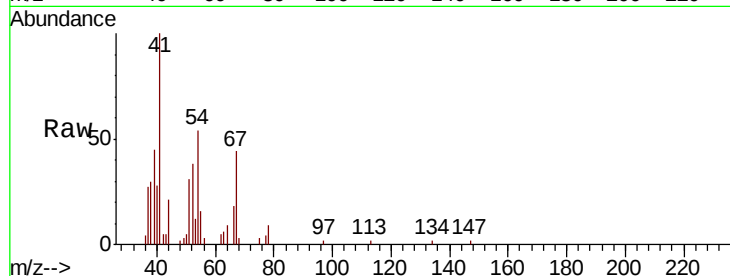
#41
Methacrylonitrile
Concen: 19.445 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	44.5	53.0	79.6#
67	43.7	43.8	65.6#
52	37.9	37.8	56.8

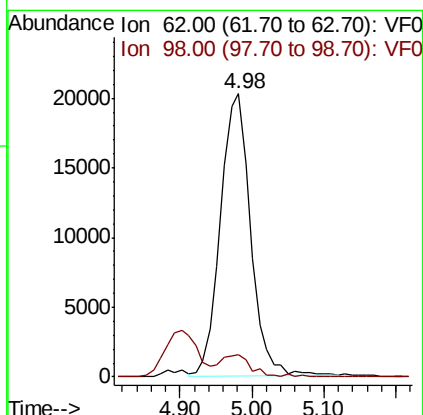
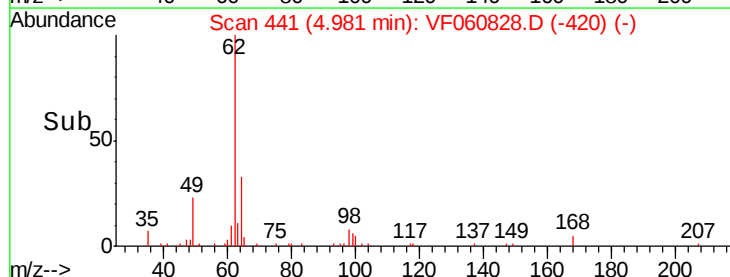
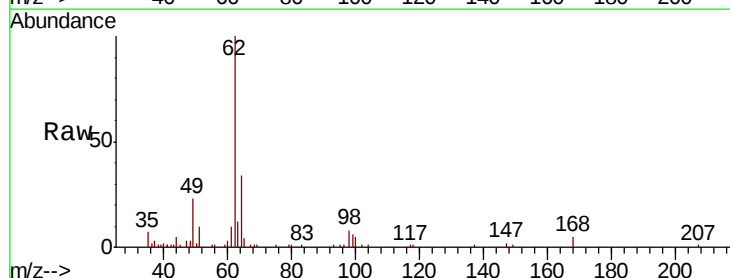
Manual Integrations
APPROVED

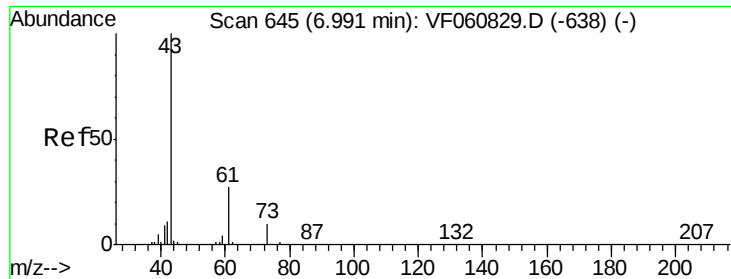
apatel
11/27/2018 3:16:50 PM



#42
1,2-Dichloroethane
Concen: 20.347 ug/l
RT: 4.98 min Scan# 441
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	17.2





#43

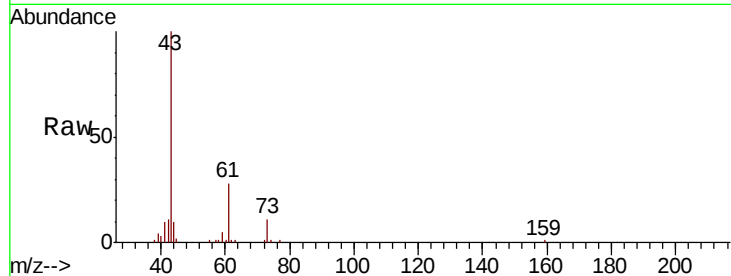
Isopropyl Acetate
 Concen: 18.924 ug/l
 RT: 6.99 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

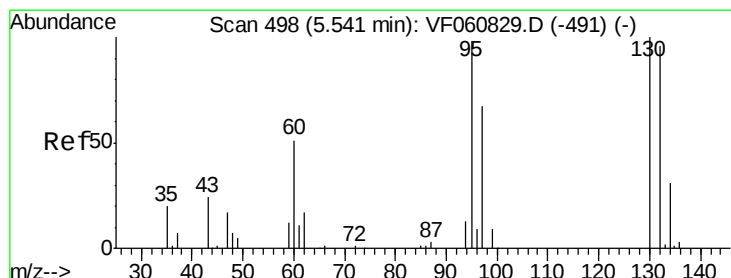
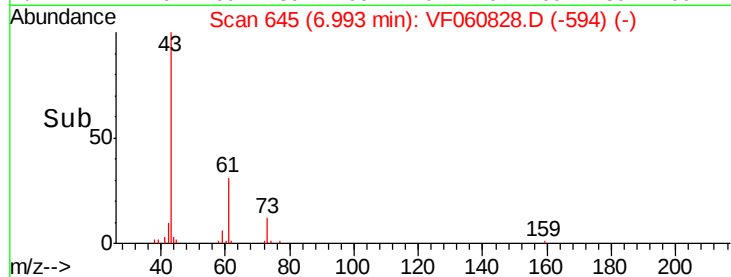
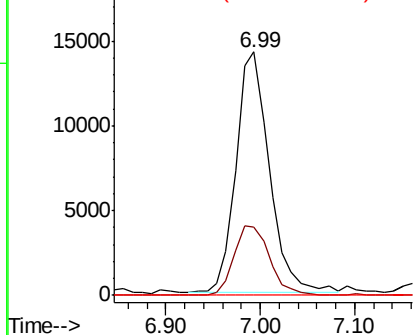
Tot Ion	Ratio	Lower	Upper
43	100		
61	28.0	21.4	32.0
87	0.0	0.2	0.4

Manual Integrations
 APPROVED

apatel
 11/27/2018 3:16:50 PM



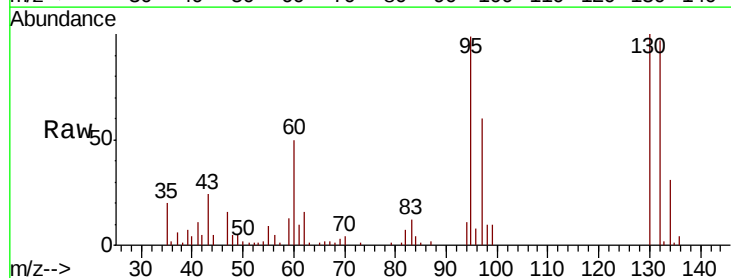
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



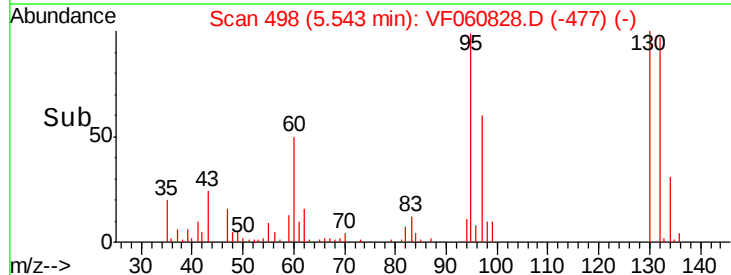
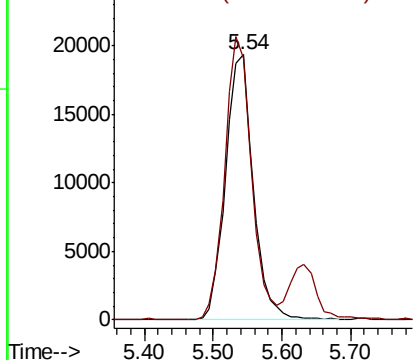
#44

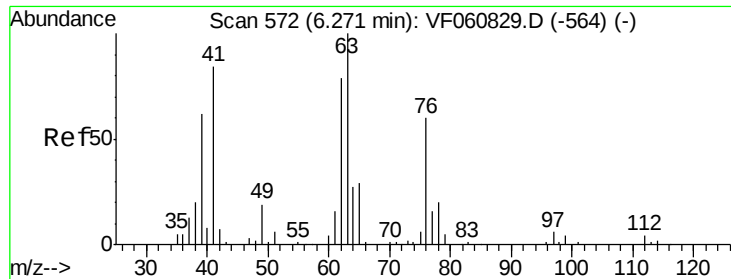
Trichloroethene
 Concen: 20.719 ug/l
 RT: 5.54 min Scan# 498
 Delta R.T. 0.00 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	195.6



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0





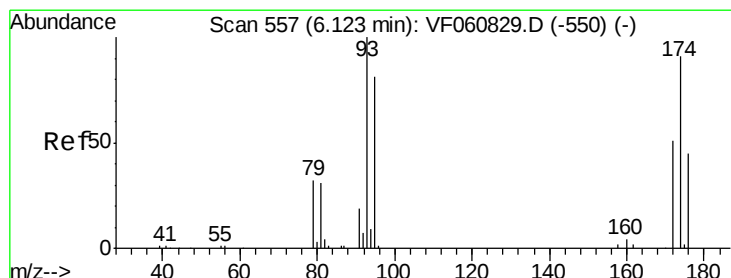
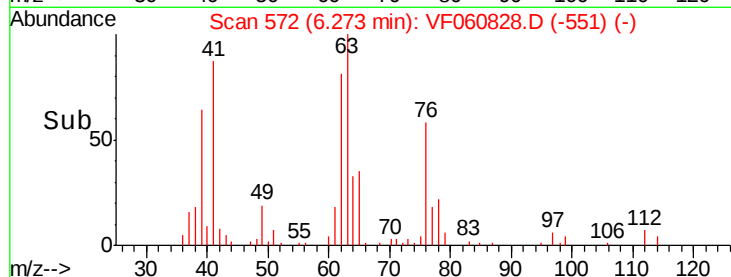
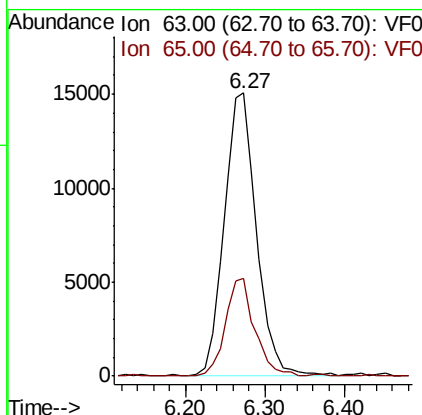
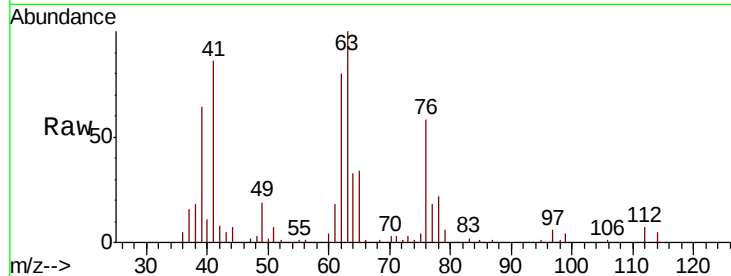
#45
 1,2-Dichloropropane
 Concen: 19.730 ug/l
 RT: 6.27 min Scan# 572
 Delta R.T. 0.00 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 42740
 Ion Ratio Lower Upper
 63 100
 65 34.3 23.2 34.8

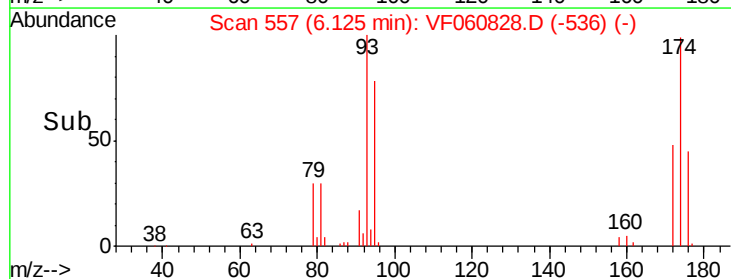
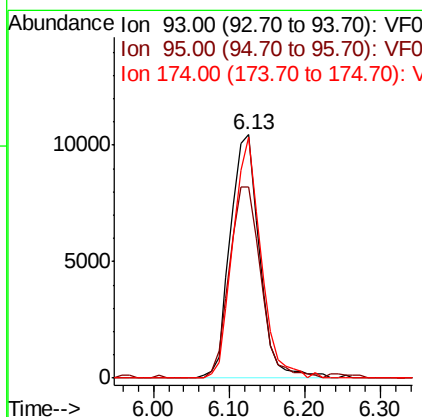
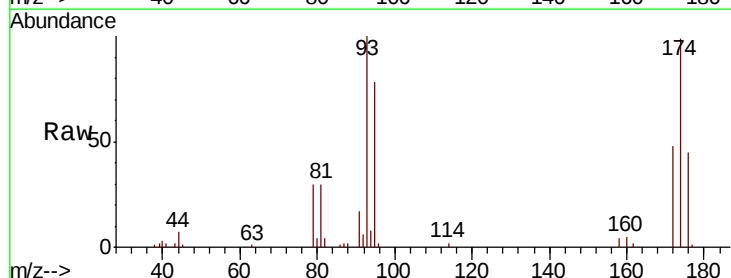
Manual Integrations
 APPROVED

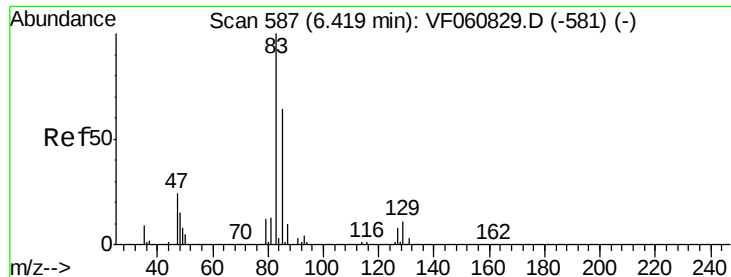
apatel
 11/27/2018 3:16:50 PM



#46
 Dibromomethane
 Concen: 19.748 ug/l
 RT: 6.13 min Scan# 557
 Delta R.T. 0.00 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Tgt Ion: 93 Resp: 28032
 Ion Ratio Lower Upper
 93 100
 95 78.3 64.7 97.1
 174 99.1 73.0 109.6





#47

Bromodichloromethane

Concen: 20.693 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

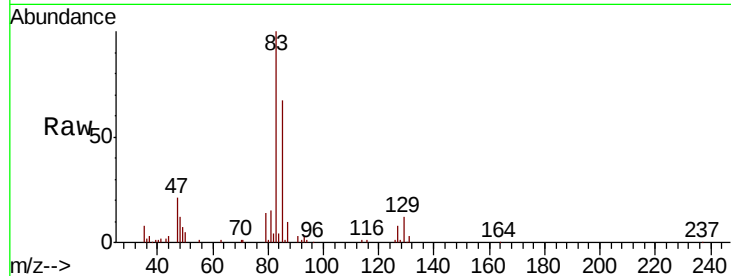
ClientSampleId :

VSTDIC020

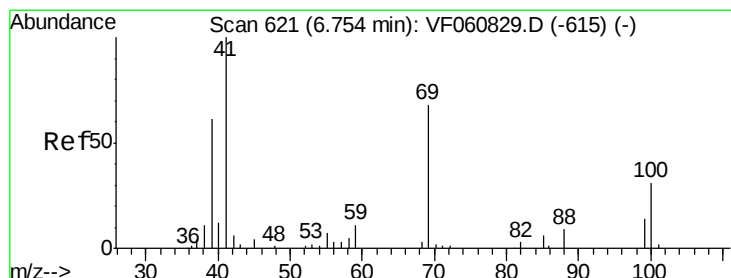
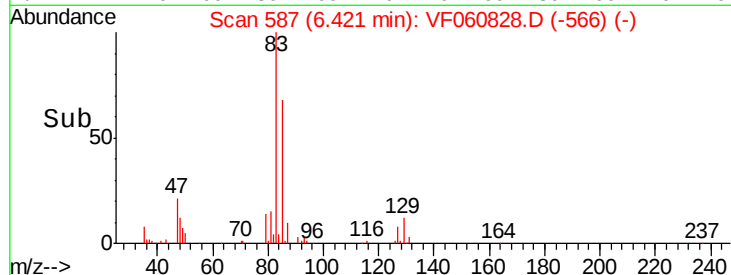
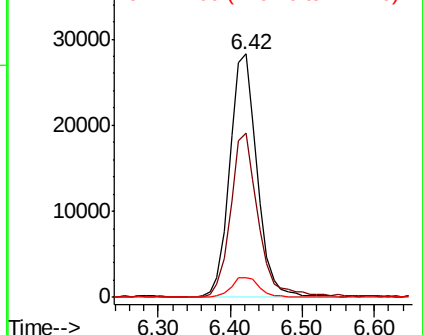
Tot Ion:	83	Resp:	74889
Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.1	76.7
127	7.9	6.8	10.2

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 20.725 ug/l

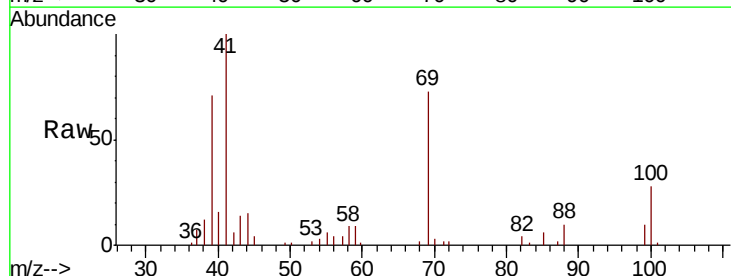
RT: 6.75 min Scan# 620

Delta R.T. -0.01 min

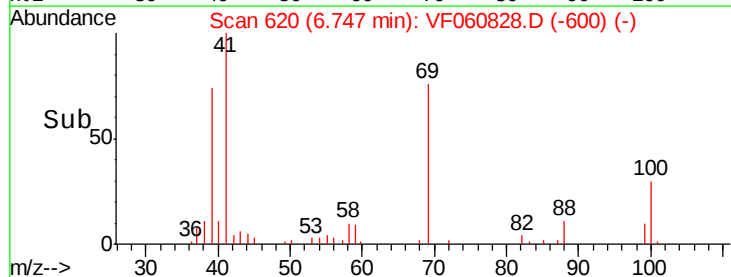
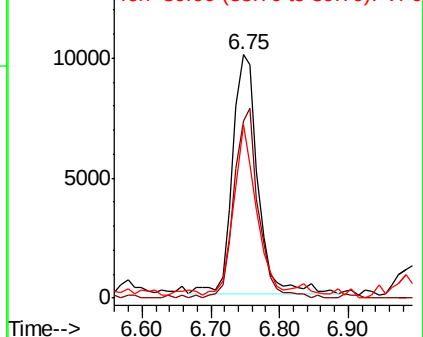
Lab File: VF060828.D

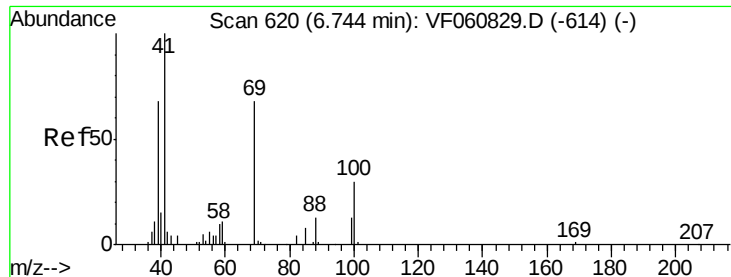
Acq: 26 Nov 2018 18:02

Tgt Ion:	41	Resp:	25677
Ion	Ratio	Lower	Upper
41	100		
69	72.5	53.9	80.9
39	70.9	49.0	73.6



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





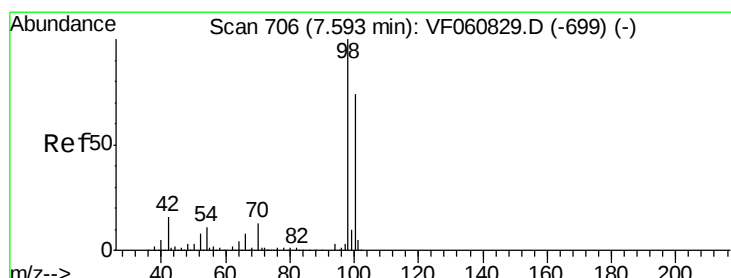
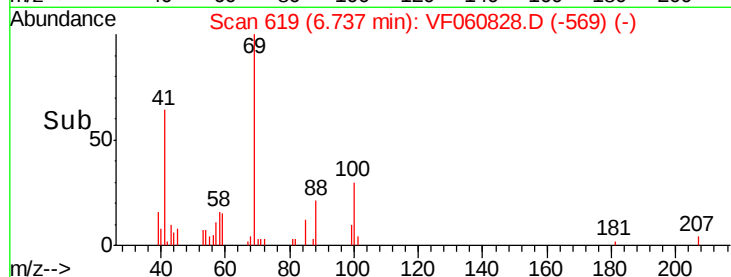
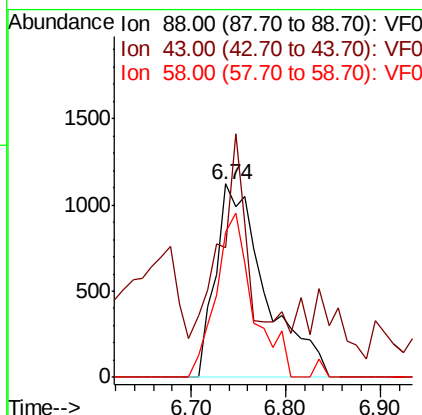
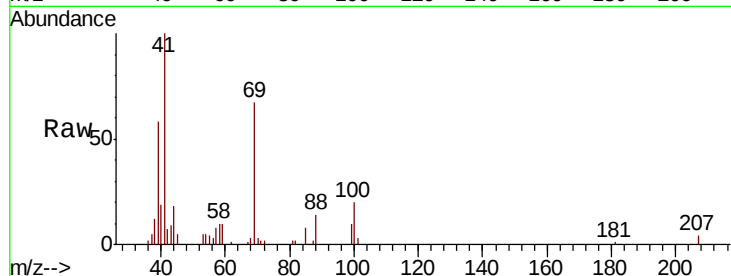
#49
1,4-Dioxane
Concen: 363.683 ug/l
RT: 6.74 min Scan# 619
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
88	100	4112		
43	67.0		42.0	63.0#
58	74.8		61.8	92.8

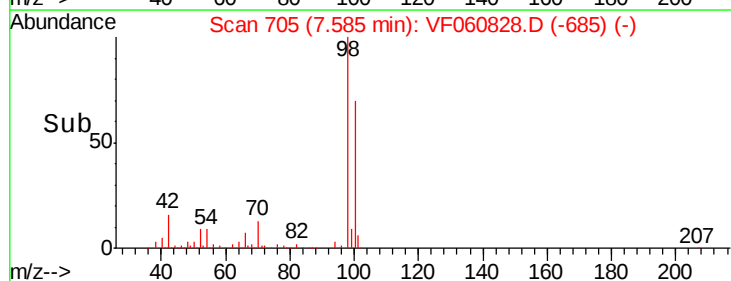
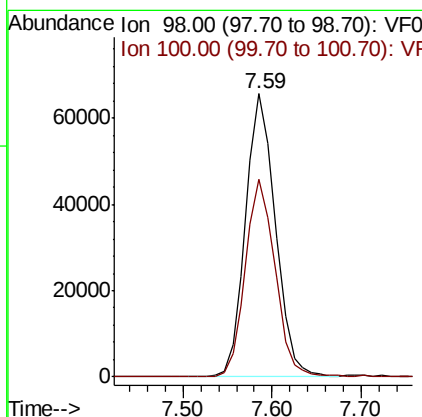
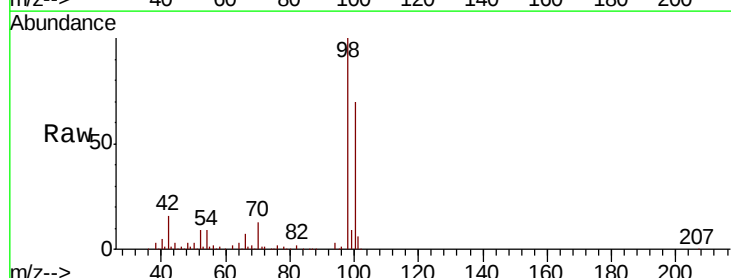
Manual Integrations
APPROVED

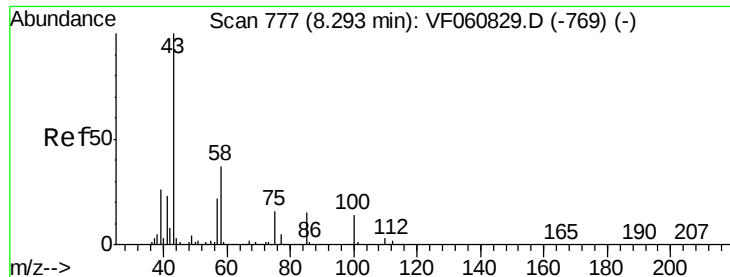
apatel
11/27/2018 3:16:50 PM



#50
Toluene-d8
Concen: 21.132 ug/l
RT: 7.59 min Scan# 705
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	152257		
100	69.8		59.3	88.9





#51

4-Methyl-2-Pentanone

Concen: 105.814 ug/l

RT: 8.29 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 140236

Ion Ratio Lower Upper

43 100

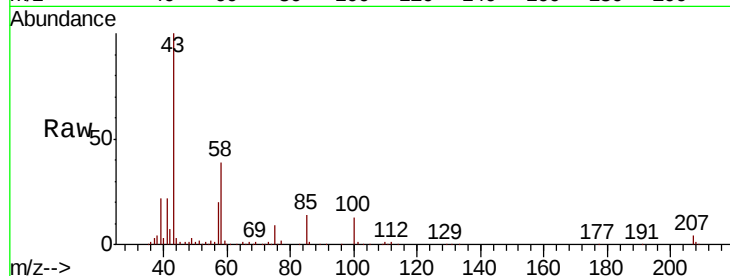
58 39.1 29.7 44.5

Manual Integrations

APPROVED

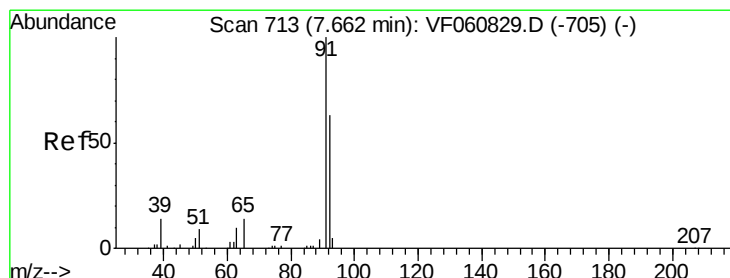
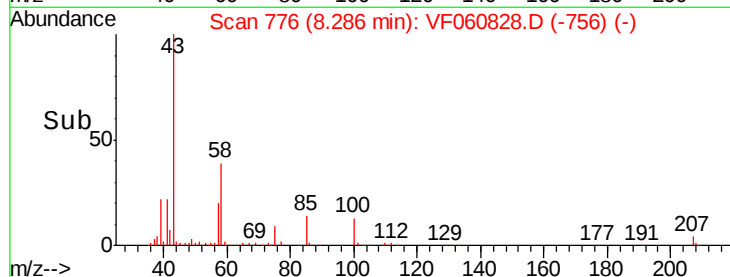
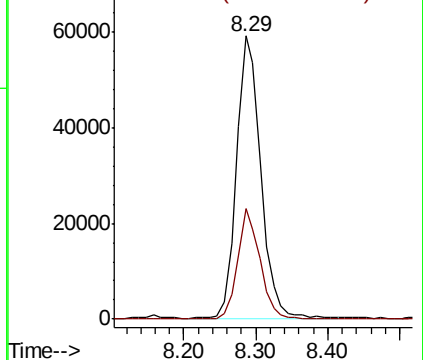
apatel

11/27/2018 3:16:50 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.472 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF060828.D

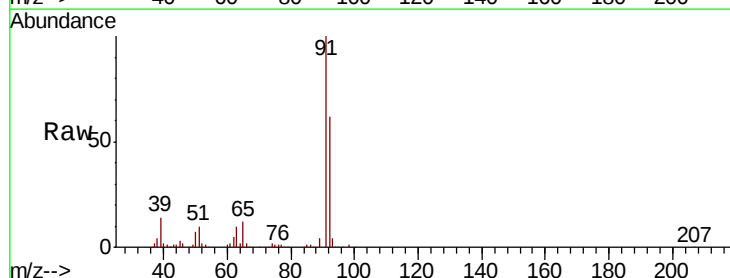
Acq: 26 Nov 2018 18:02

Tgt Ion: 92 Resp: 117882

Ion Ratio Lower Upper

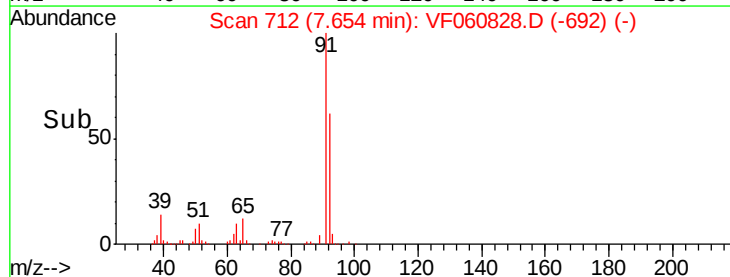
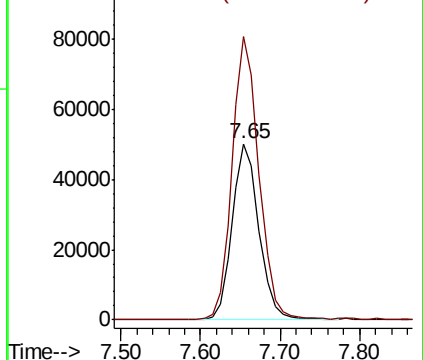
92 100

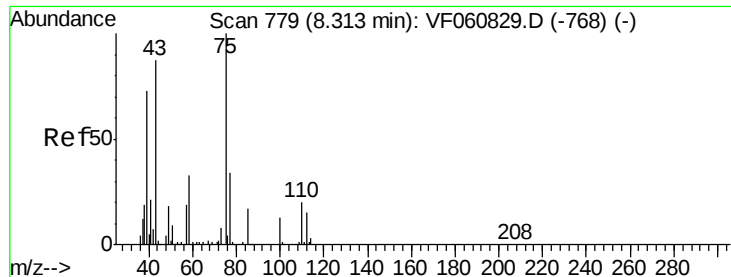
91 161.0 126.2 189.2



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: 20.047 ug/l

RT: 8.32 min Scan# 779

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tot Ion: 75 Resp: 58823

Ion Ratio Lower Upper

75 100

77 32.2 27.4 41.2

Instrument :

MSVOA_F

ClientSampleId :

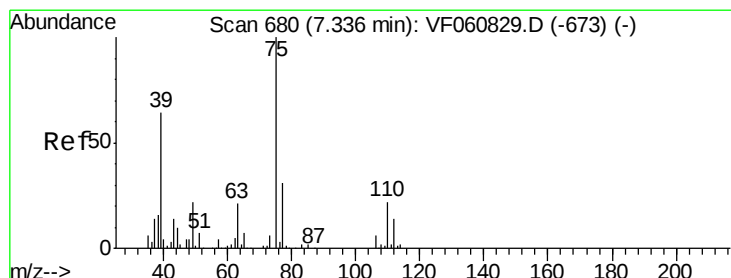
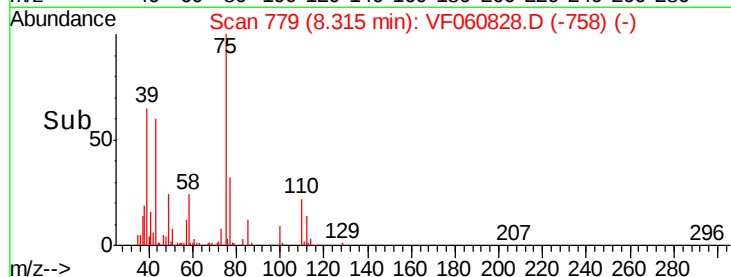
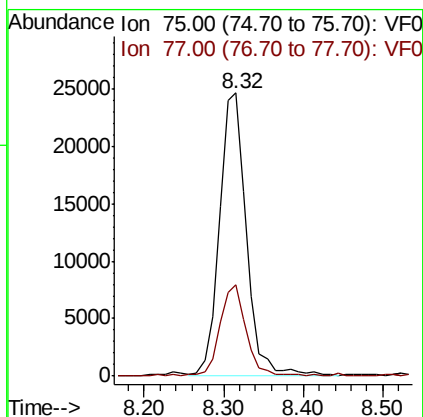
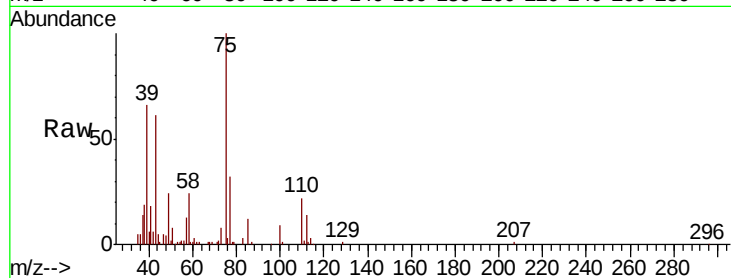
VSTDIC020

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



#54

cis-1,3-Dichloropropene

Concen: 20.553 ug/l

RT: 7.34 min Scan# 680

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

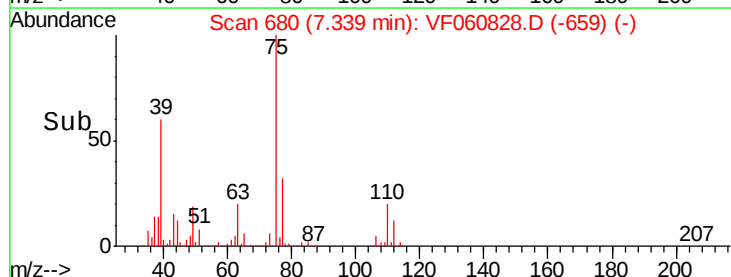
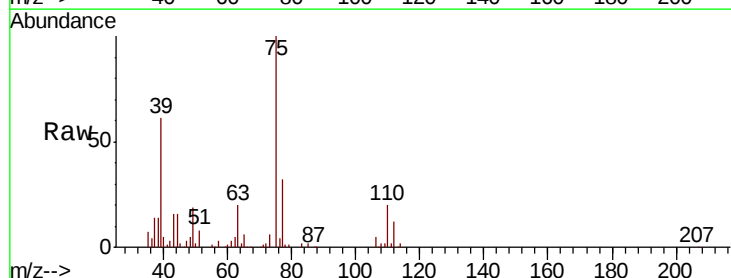
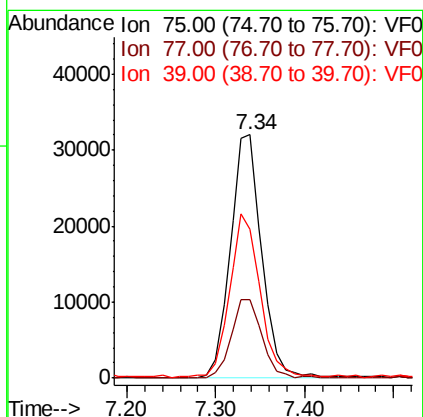
Tgt Ion: 75 Resp: 78843

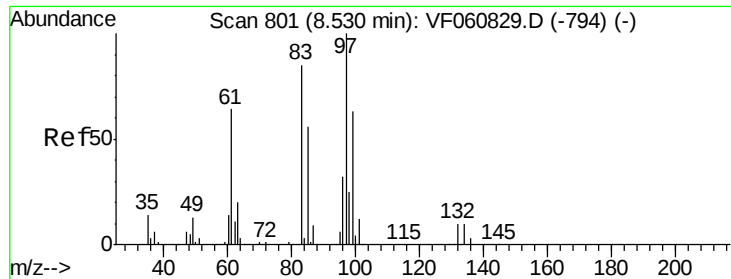
Ion Ratio Lower Upper

75 100

77 32.2 25.0 37.6

39 61.1 51.1 76.7





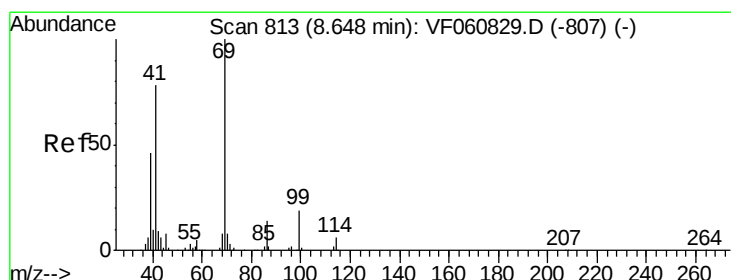
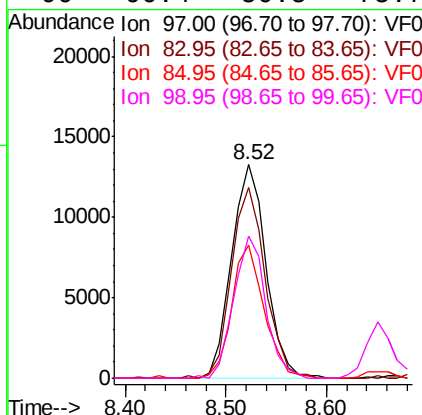
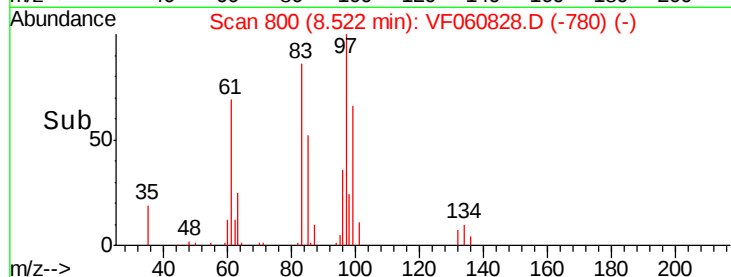
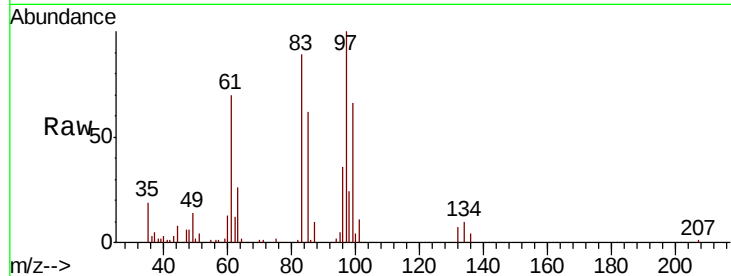
#55
 1,1,2-Trichloroethane
 Concen: 19.922 ug/l
 RT: 8.52 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	31541
Ion	Ratio	Lower	Upper
97	100		
83	89.3	67.8	101.6
85	62.4	45.0	67.6
99	66.4	50.5	75.7

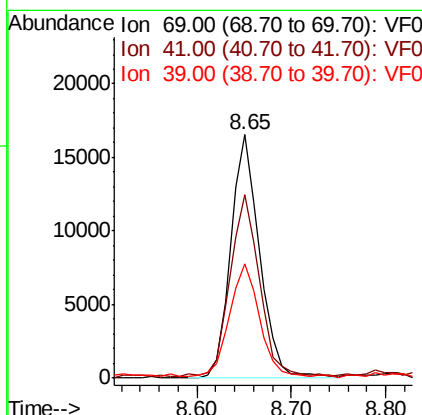
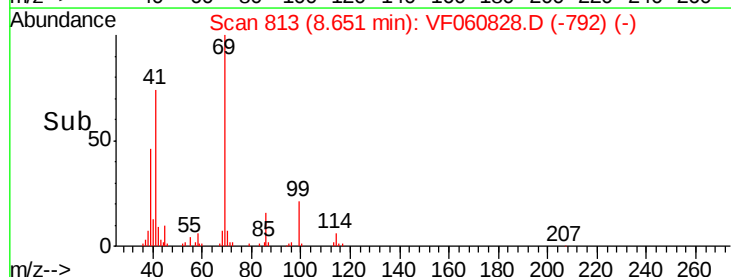
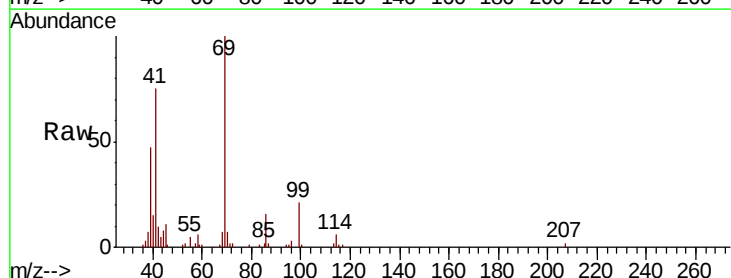
Manual Integrations
 APPROVED

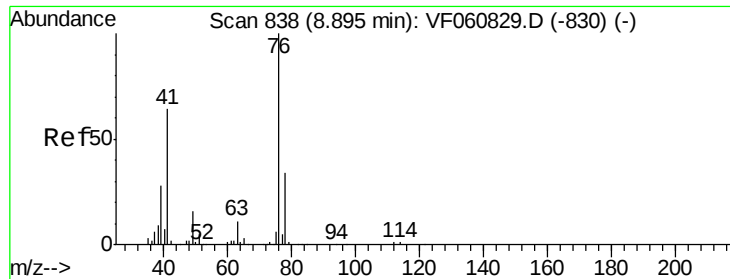
apatel
 11/27/2018 3:16:50 PM



#56
 Ethyl methacrylate
 Concen: 19.238 ug/l
 RT: 8.65 min Scan# 813
 Delta R.T. 0.00 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Tgt Ion:	69	Resp:	34972
Ion	Ratio	Lower	Upper
69	100		
41	75.3	62.6	94.0
39	47.2	37.8	56.6





#57

1,3-Dichloropropane

Concen: 21.043 ug/l

RT: 8.89 min Scan# 837

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 58747

Ion Ratio Lower Upper

76 100

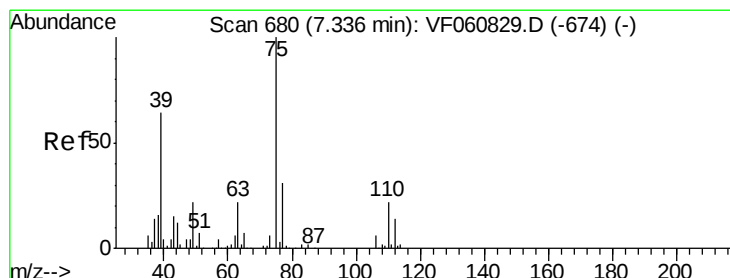
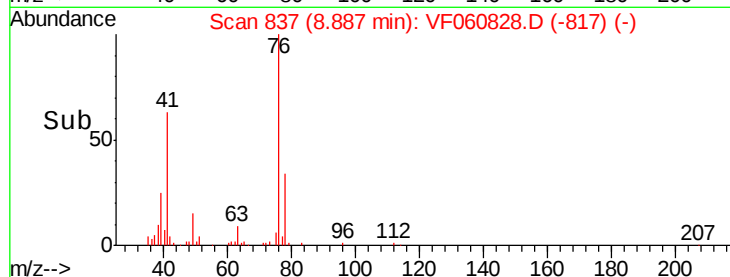
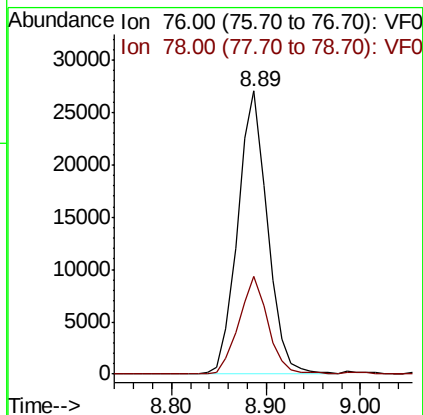
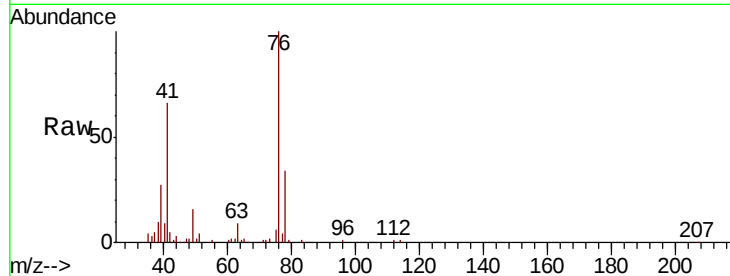
78 34.4 27.0 40.4

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



#58

2-Chloroethyl Vinyl ether

Concen: 120.327 ug/l

RT: 7.33 min Scan# 679

Delta R.T. -0.01 min

Lab File: VF060828.D

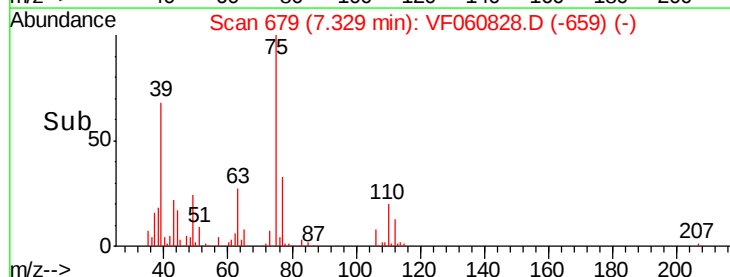
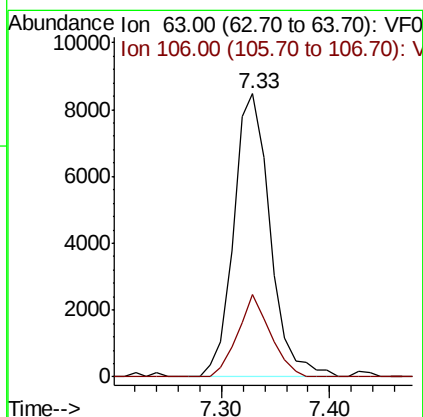
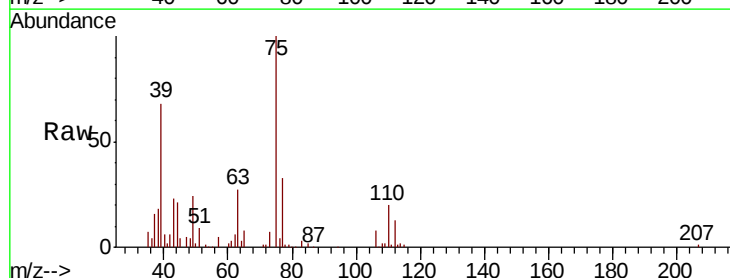
Acq: 26 Nov 2018 18:02

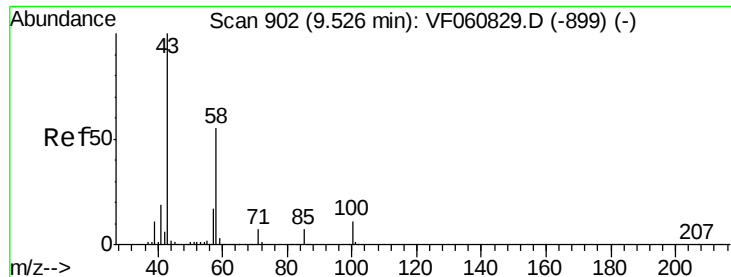
Tgt Ion: 63 Resp: 19878

Ion Ratio Lower Upper

63 100

106 29.0 23.0 34.6





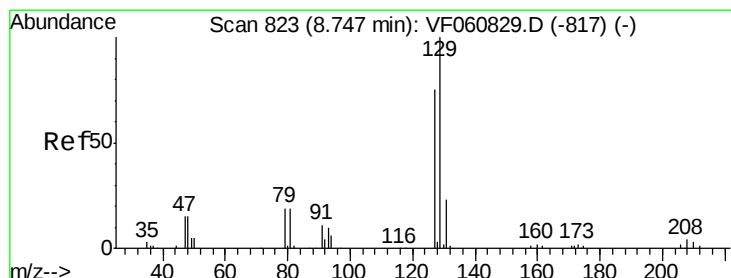
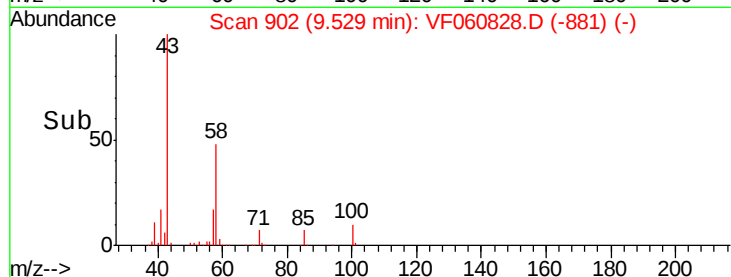
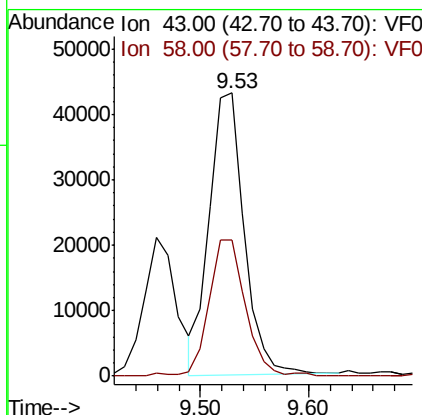
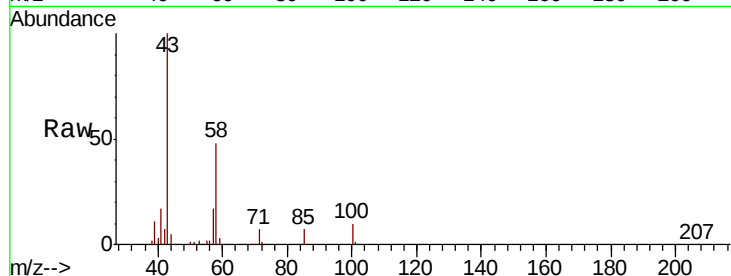
#59
2-Hexanone
Concen: 103.226 ug/l
RT: 9.53 min Scan# 902
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.1	25.6	76.6

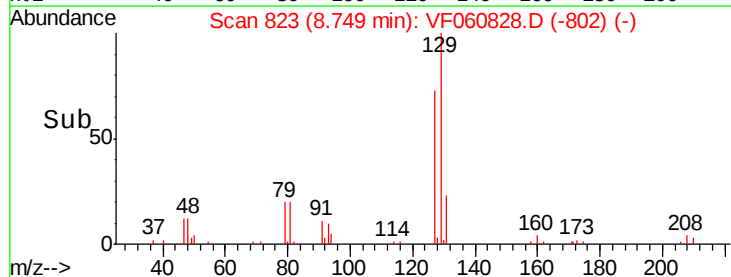
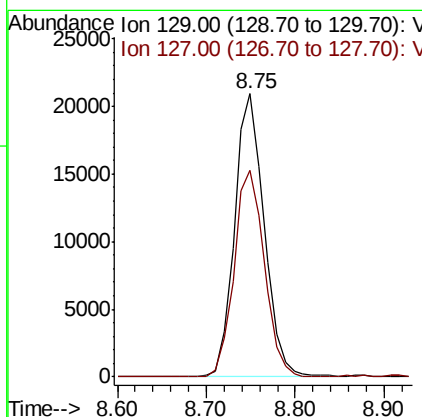
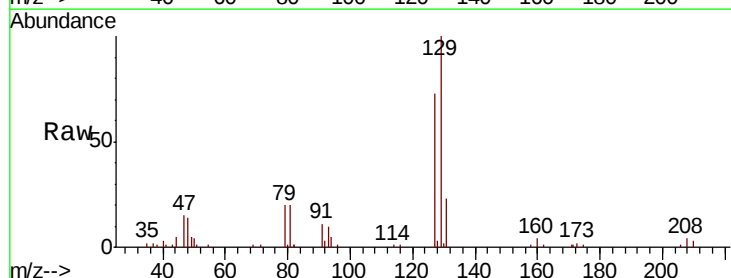
Manual Integrations
APPROVED

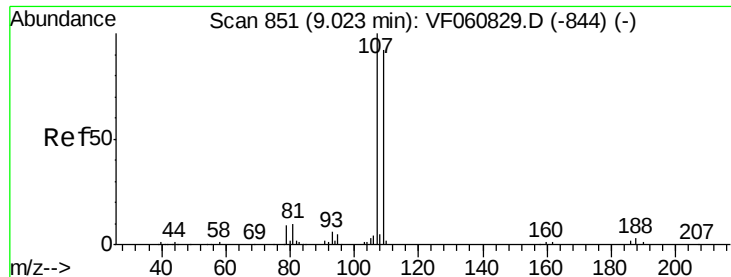
apatel
11/27/2018 3:16:50 PM



#60
Dibromochloromethane
Concen: 21.163 ug/l
RT: 8.75 min Scan# 823
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
129	100		
127	73.2	37.3	111.9





#61

1,2-Dibromoethane

Concen: 22.454 ug/l

RT: 9.02 min Scan# 850

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 37518

Ion Ratio Lower Upper

107 100

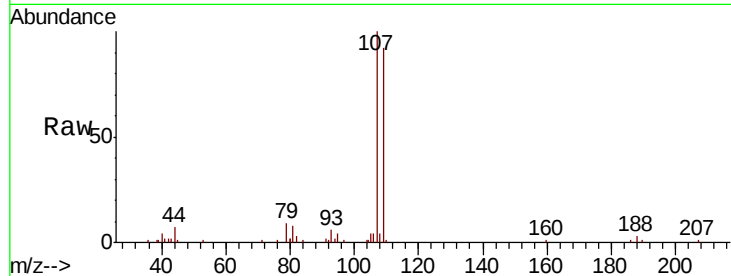
109 91.5 73.6 110.4

Manual Integrations

APPROVED

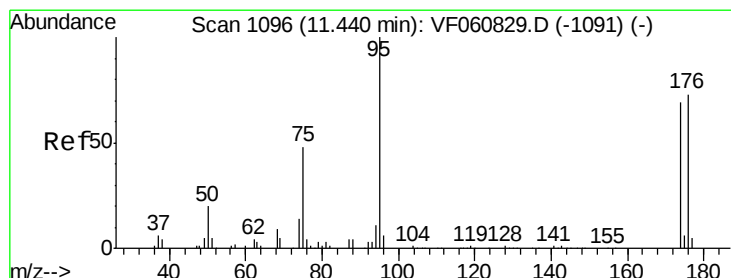
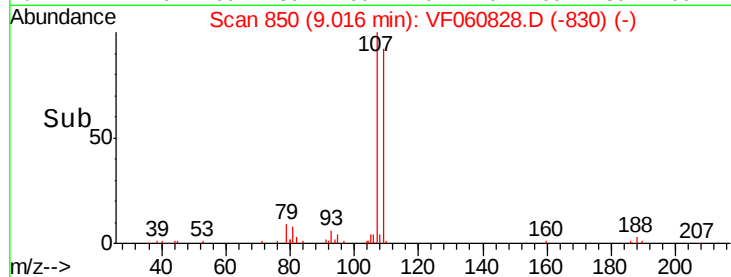
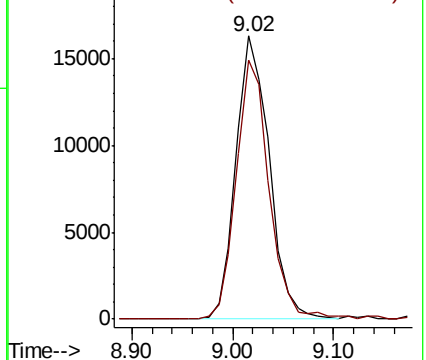
apatel

11/27/2018 3:16:50 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 20.694 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

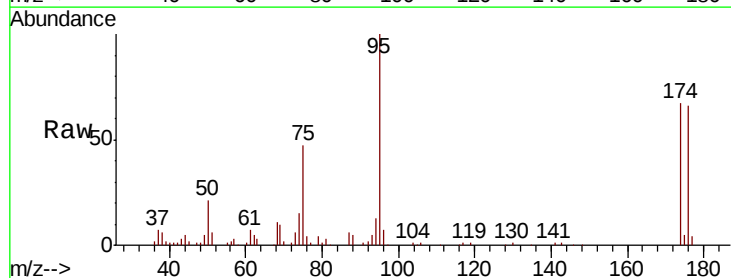
Tgt Ion: 95 Resp: 69051

Ion Ratio Lower Upper

95 100

174 66.8 0.0 138.2

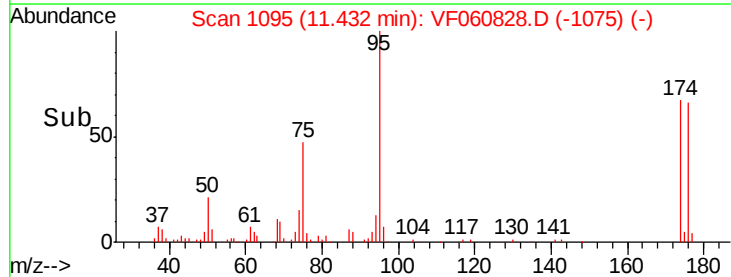
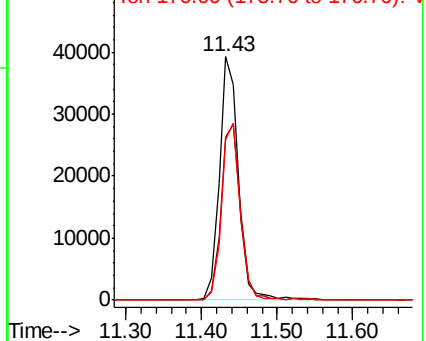
176 65.9 0.0 146.2

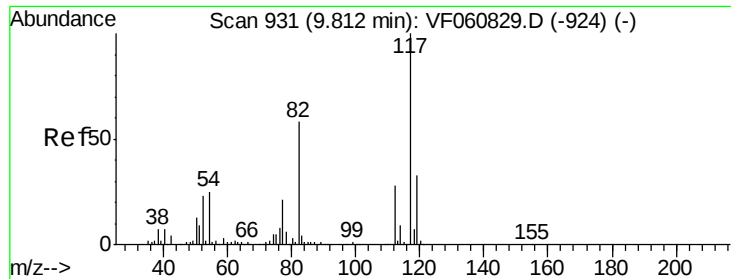


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





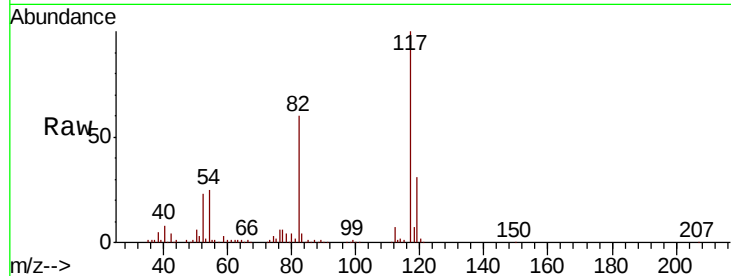
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	313901		
82	60.3		46.6	69.8
119	30.9		26.4	39.6

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM

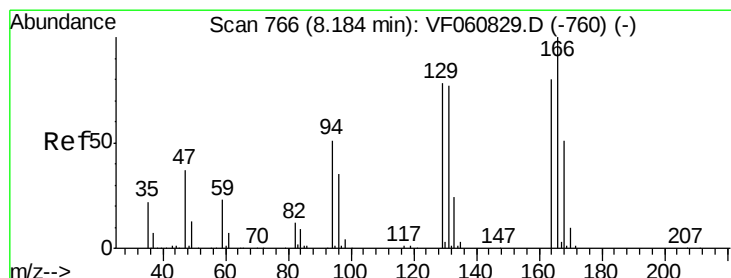
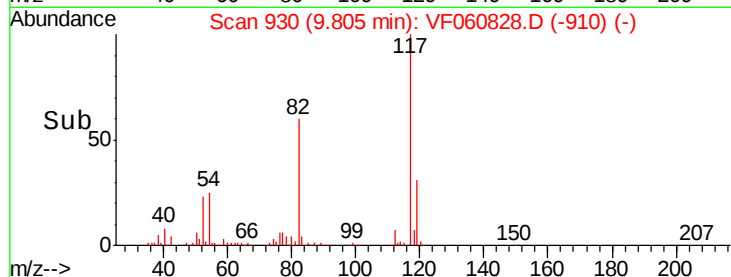
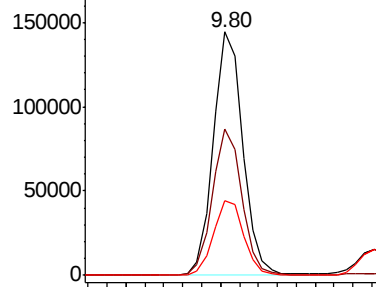


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 20.443 ug/l
RT: 8.19 min Scan# 766
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	49287		
166	131.6		100.3	150.5
129	99.0		77.9	116.9
131	92.5		77.5	116.3

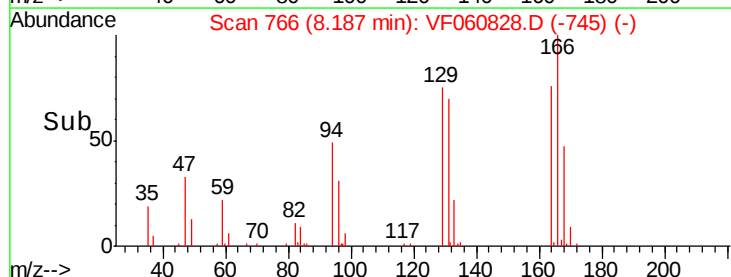
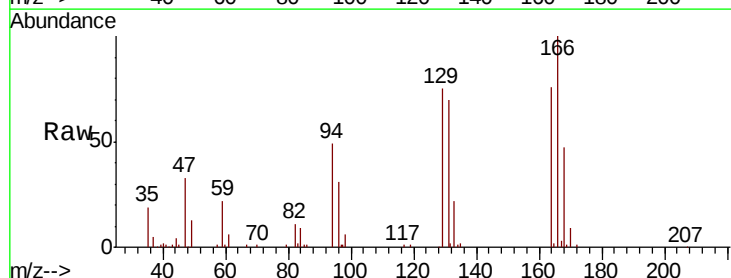
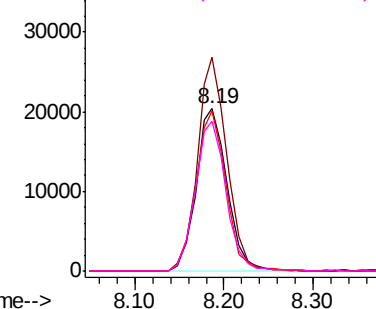
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 19.676 ug/l

RT: 9.83 min Scan# 933

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 123927

Ion Ratio Lower Upper

112 100

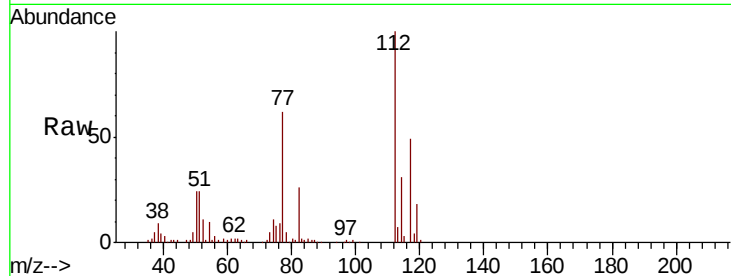
114 31.3 26.0 39.0

Manual Integrations

APPROVED

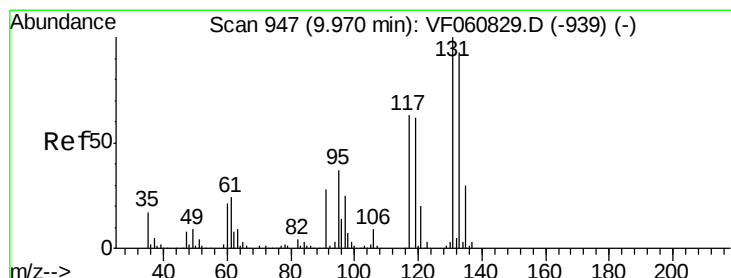
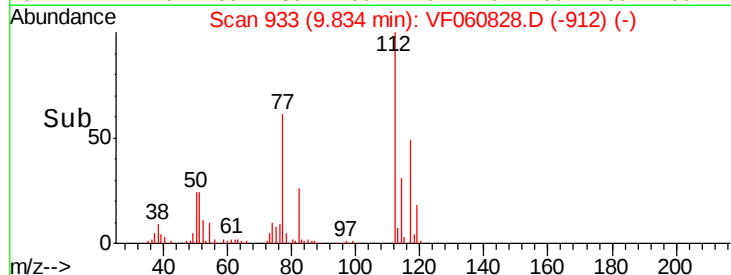
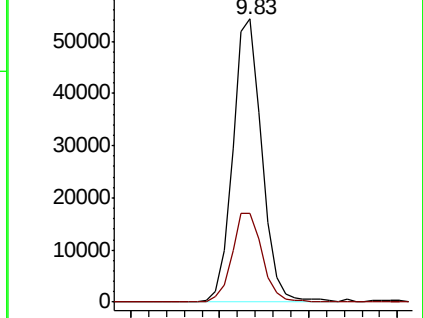
apatel

11/27/2018 3:16:50 PM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.419 ug/l

RT: 9.96 min Scan# 946

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

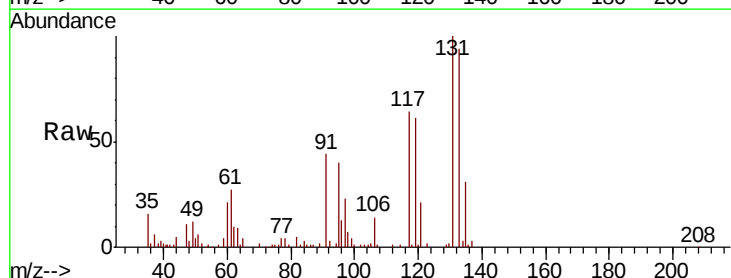
Tgt Ion:131 Resp: 55069

Ion Ratio Lower Upper

131 100

133 94.3 46.5 139.3

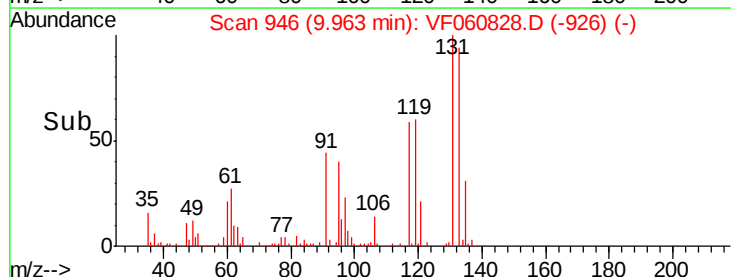
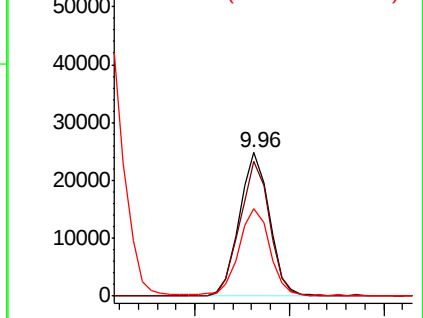
119 61.4 31.1 93.3



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 18.986 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 223960

Ion Ratio Lower Upper

91 100

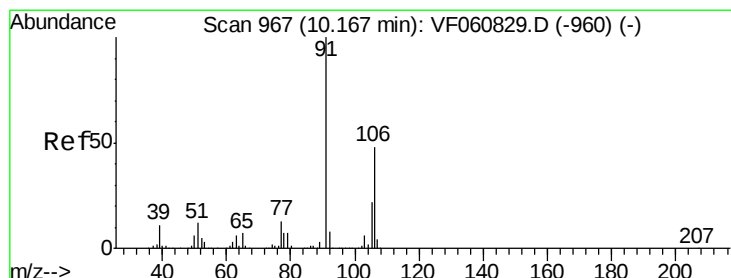
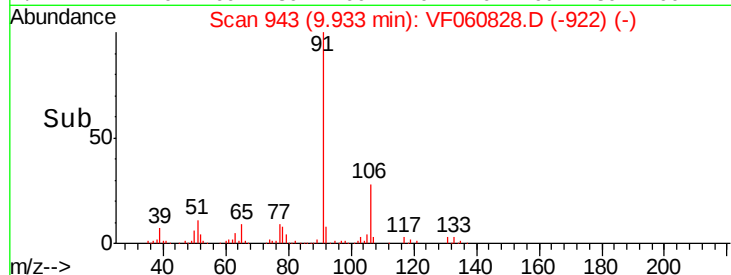
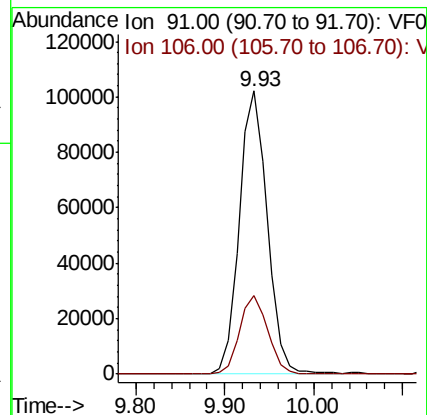
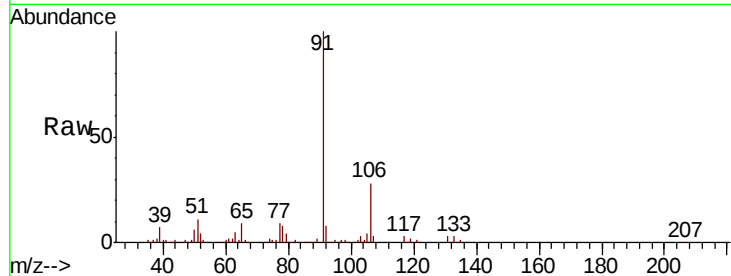
106 27.9 22.2 33.2

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



#68

m/p-Xylenes

Concen: 40.683 ug/l

RT: 10.16 min Scan# 966

Delta R.T. -0.01 min

Lab File: VF060828.D

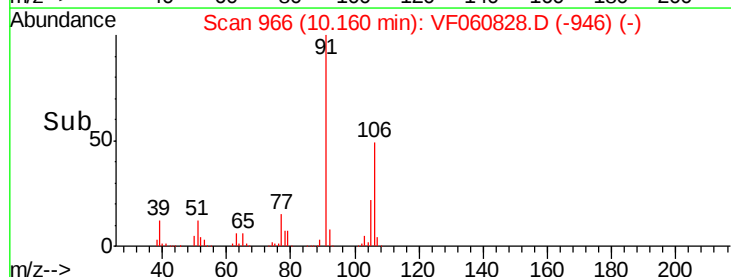
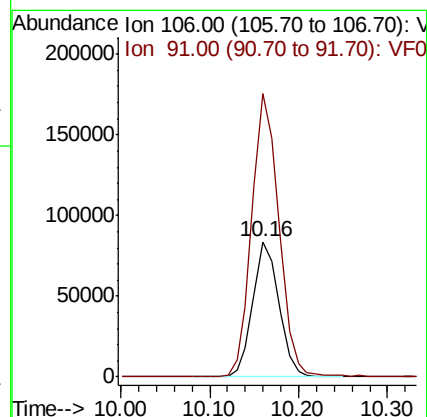
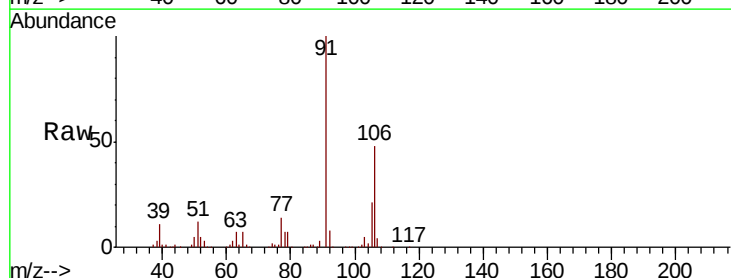
Acq: 26 Nov 2018 18:02

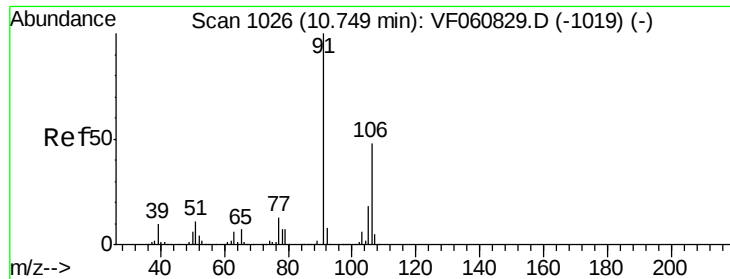
Tgt Ion: 106 Resp: 170897

Ion Ratio Lower Upper

106 100

91 209.8 166.7 250.1





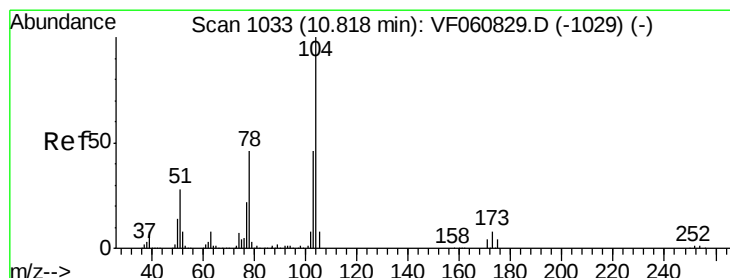
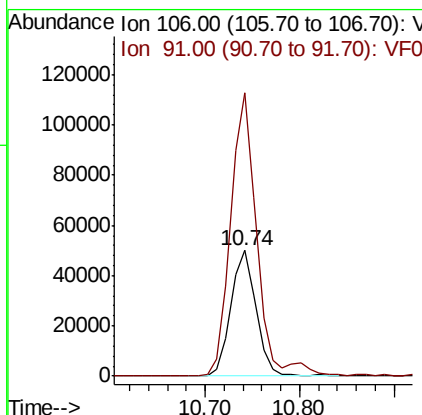
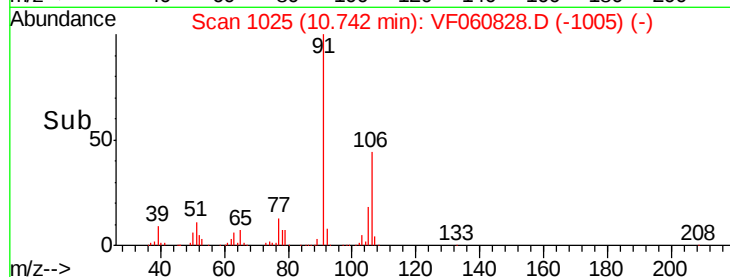
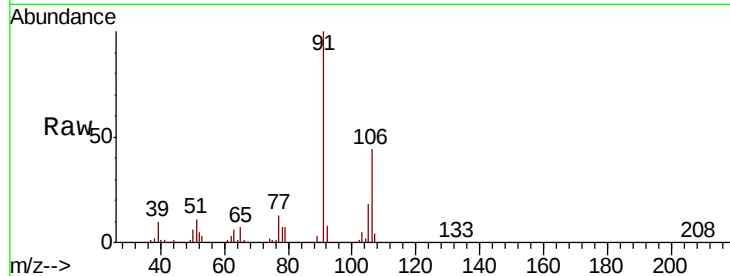
#69
o-Xylene
Concen: 19.719 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 92778
Ion Ratio Lower Upper
106 100
91 225.4 104.8 314.6

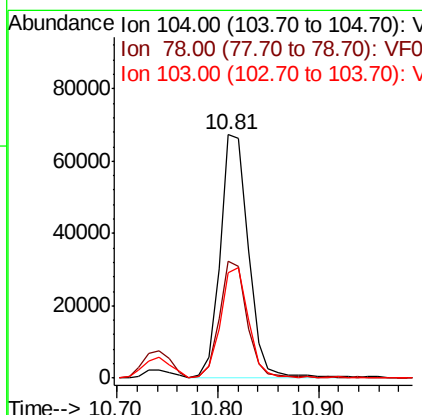
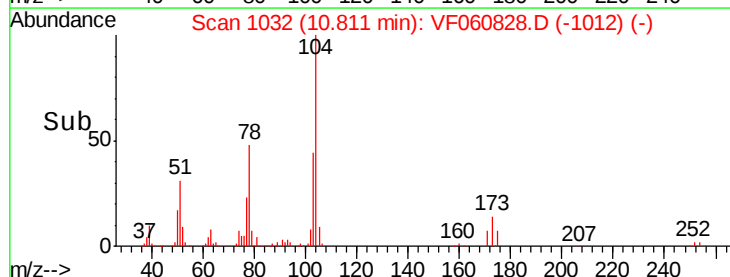
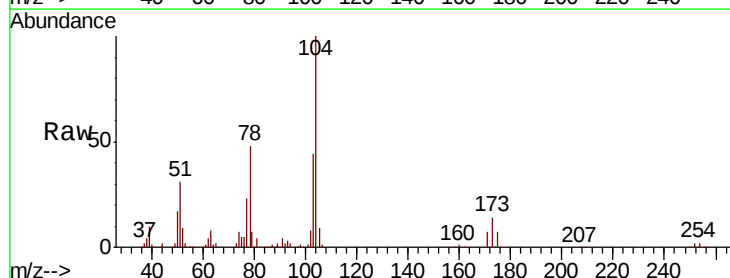
Manual Integrations
APPROVED

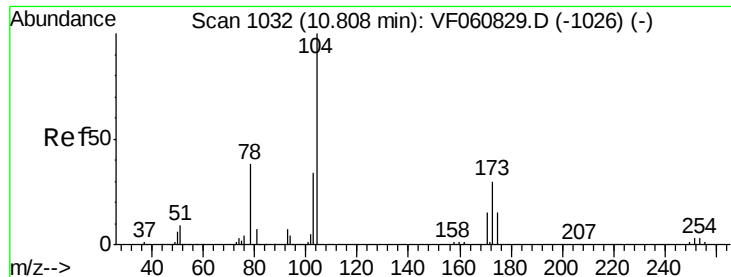
apatel
11/27/2018 3:16:50 PM



#70
Styrene
Concen: 20.547 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion:104 Resp: 131990
Ion Ratio Lower Upper
104 100
78 48.0 37.3 55.9
103 43.5 36.8 55.2





#71

Bromoform

Concen: 20.688 ug/l

RT: 10.80 min Scan# 1031

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

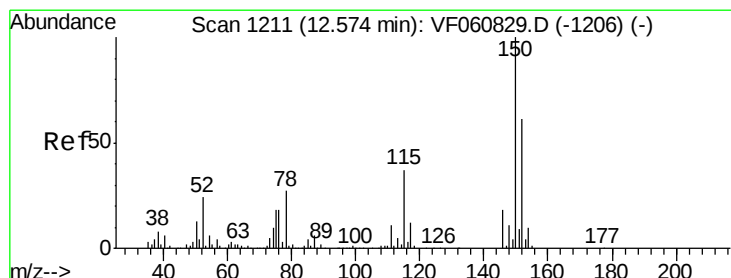
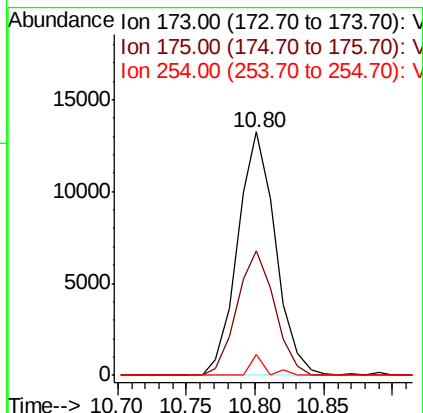
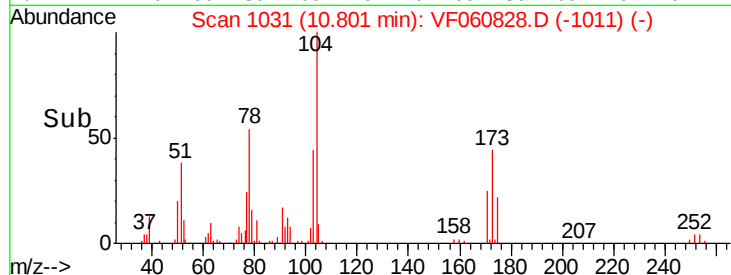
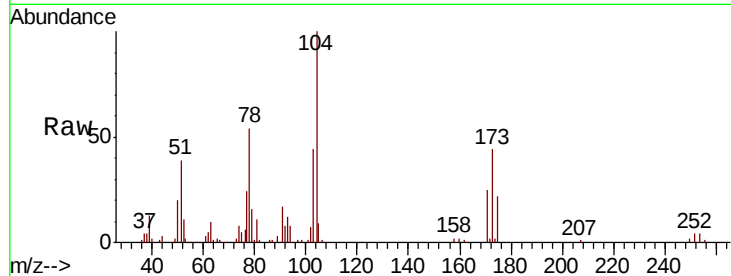
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.3	25.5	76.5
254	8.8	7.5	11.3

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

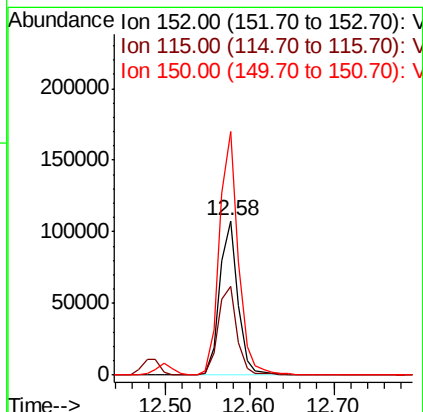
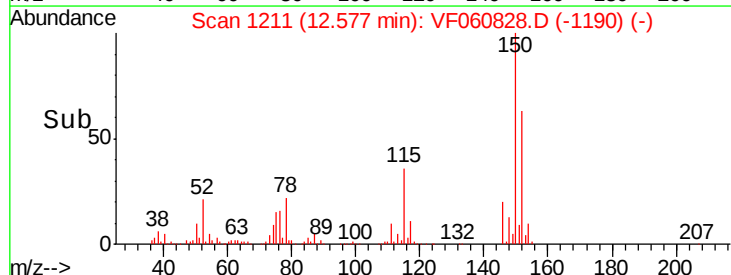
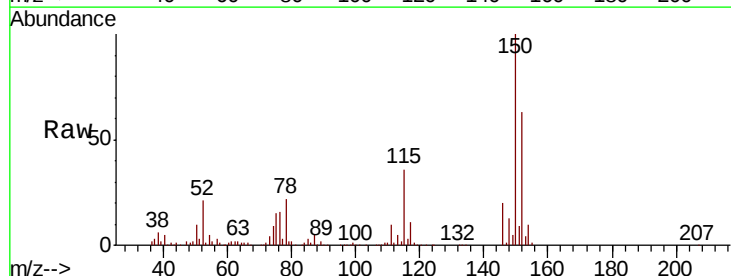
RT: 12.58 min Scan# 1211

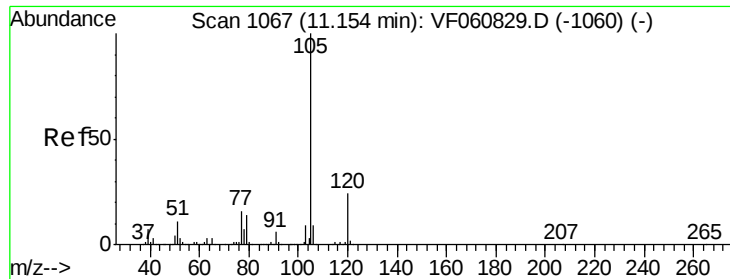
Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	30.1	90.5
150	158.1	0.0	327.6





#73

Isopropylbenzene

Concen: 21.186 ug/l

RT: 11.15 min Scan# 1066

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 277459

Ion Ratio Lower Upper

105 100

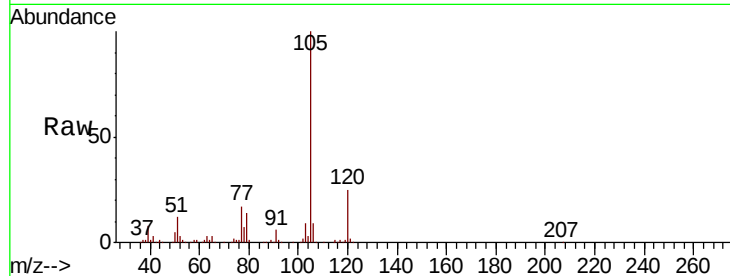
120 25.2 12.2 36.4

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.15

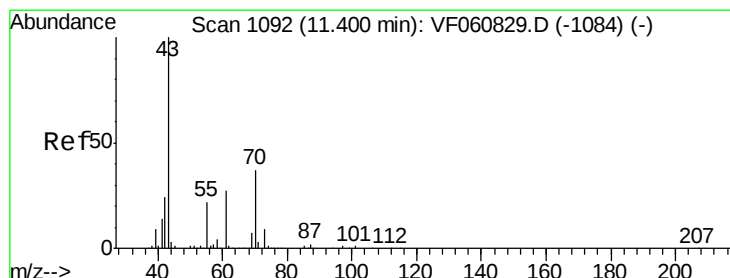
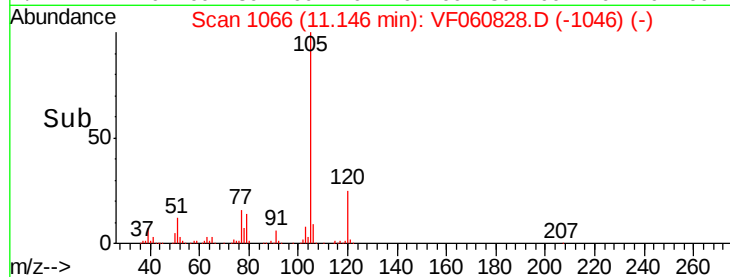
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 21.567 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion: 43 Resp: 65177

Ion Ratio Lower Upper

43 100

70 32.9 29.6 44.4

55 20.6 17.2 25.8

61 25.3 21.8 32.6

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

50000

40000

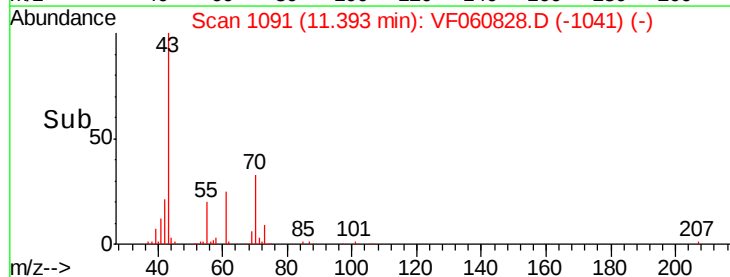
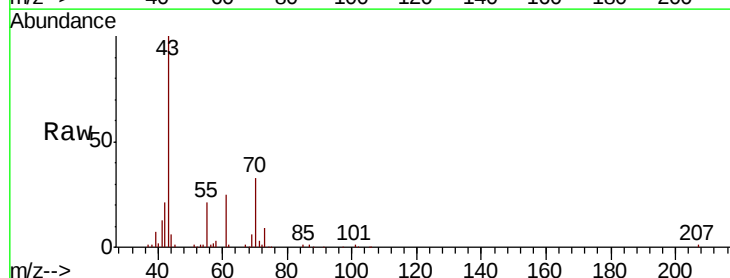
30000

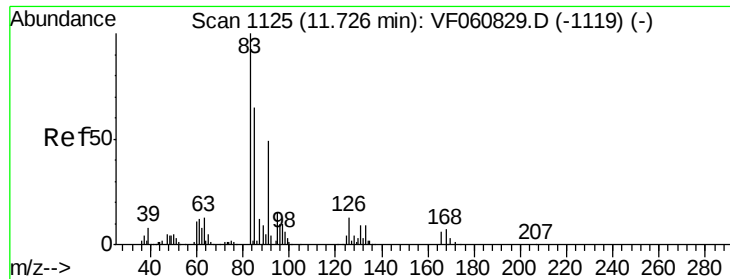
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.892 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

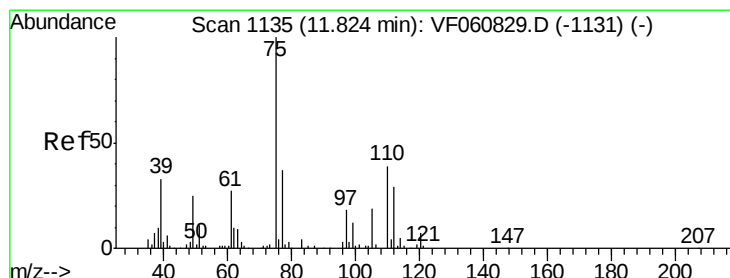
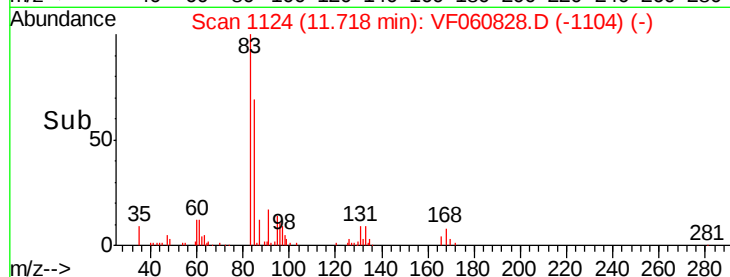
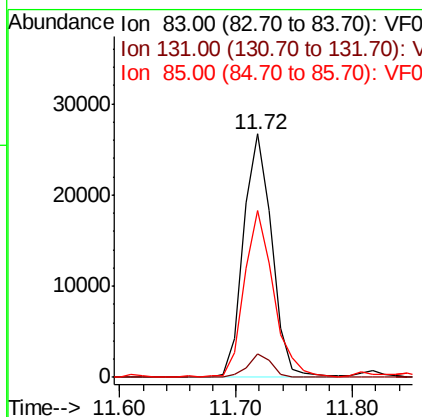
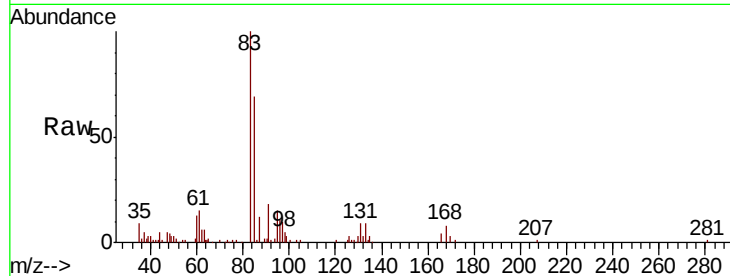
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	45087
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.7	14.1
85	68.7	32.6	97.8

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#76

1,2,3-Trichloropropane

Concen: 19.600 ug/l

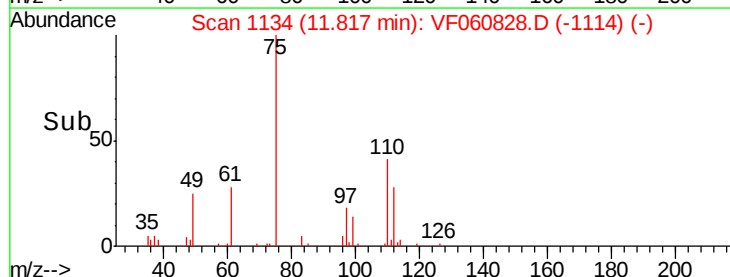
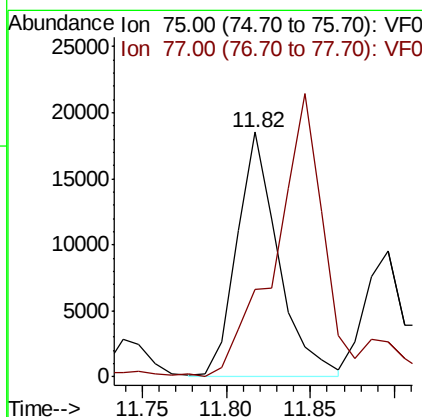
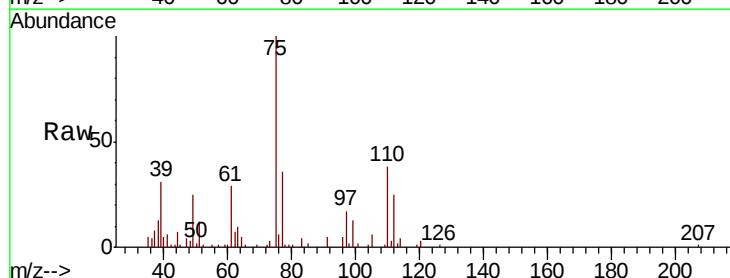
RT: 11.82 min Scan# 1134

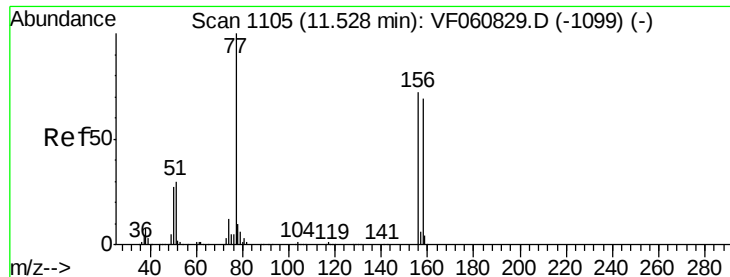
Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion:	75	Resp:	31784
Ion Ratio	Lower	Upper	
75	100		
77	35.8	18.4	55.4





#77

Bromobenzene

Concen: 21.518 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

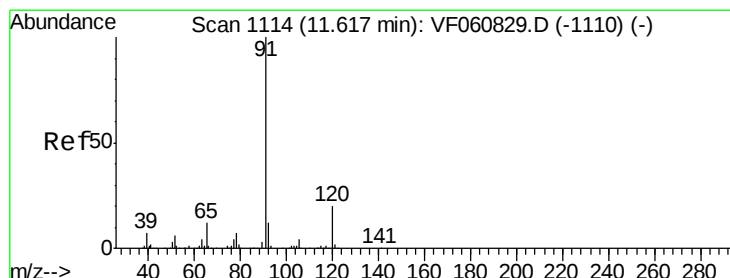
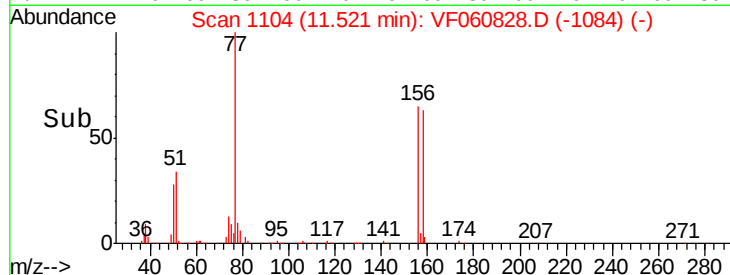
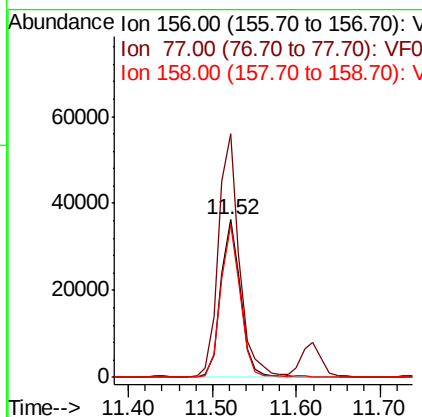
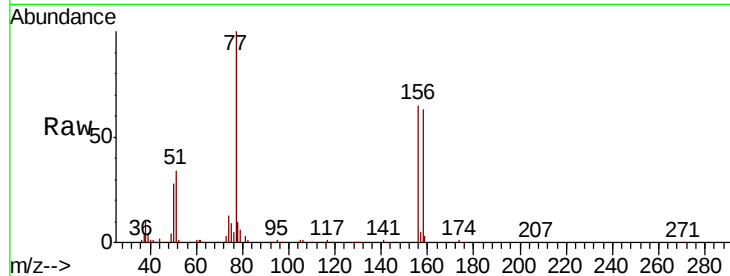
ClientSampleId :

VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	154.8	69.7	209.0	
158	97.2	47.8	143.4	

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#78

n-propylbenzene

Concen: 20.296 ug/l

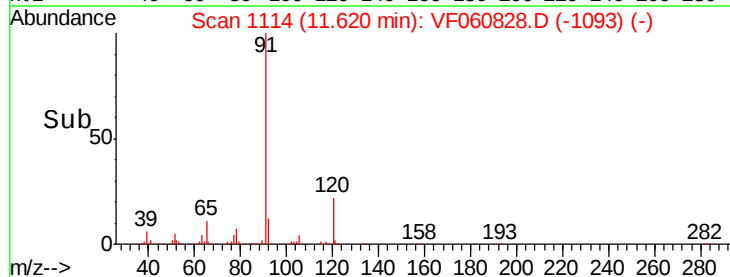
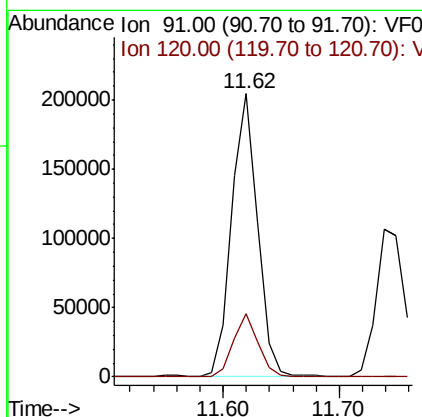
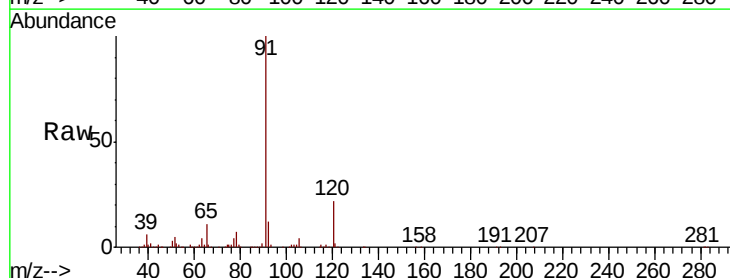
RT: 11.62 min Scan# 1114

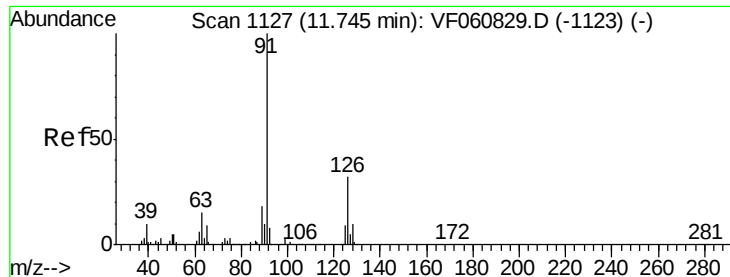
Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.2	10.3	30.8	





#79

2-Chlorotoluene

Concen: 20.016 ug/l

RT: 11.74 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 178013

Ion Ratio Lower Upper

91 100

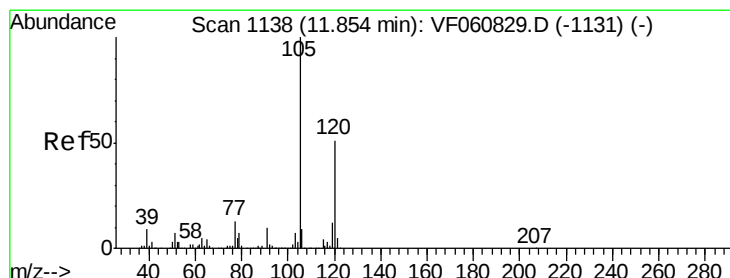
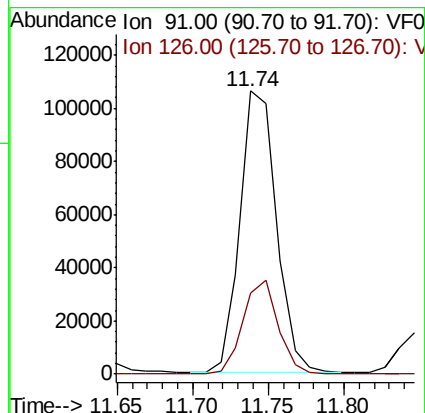
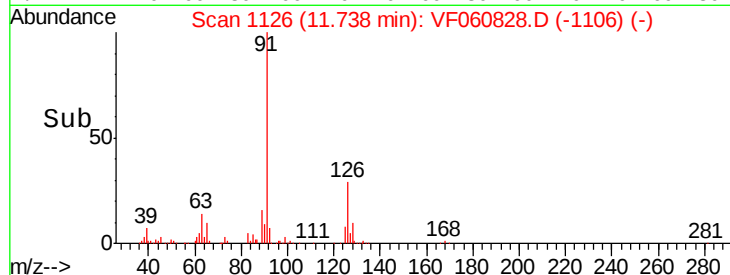
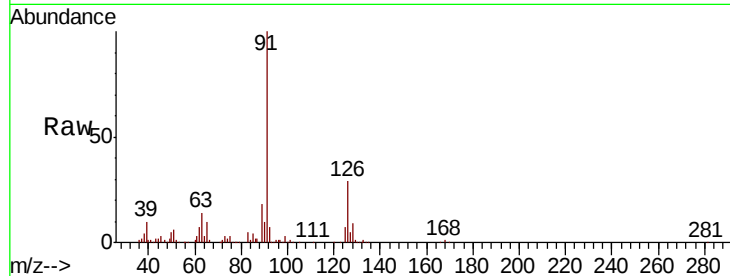
126 28.6 15.9 47.6

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



#80

1,3,5-Trimethylbenzene

Concen: 21.579 ug/l

RT: 11.85 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF060828.D

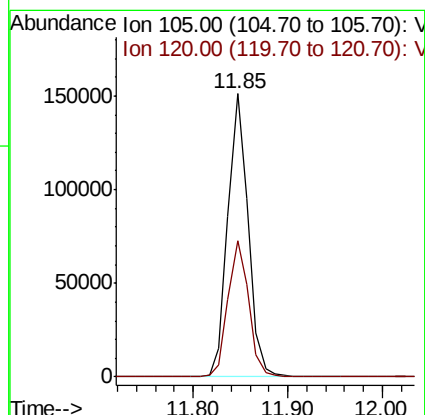
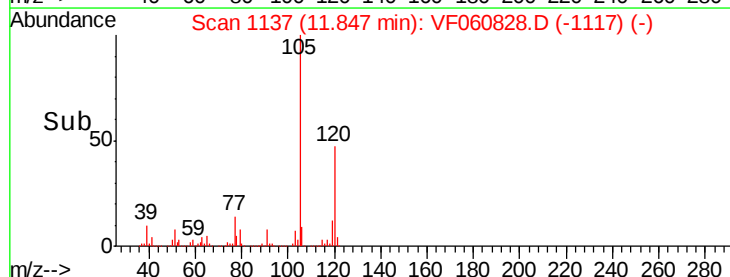
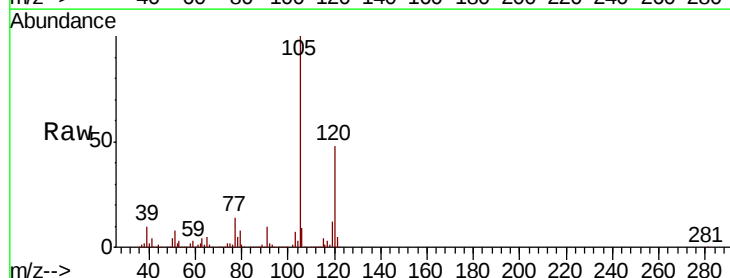
Acq: 26 Nov 2018 18:02

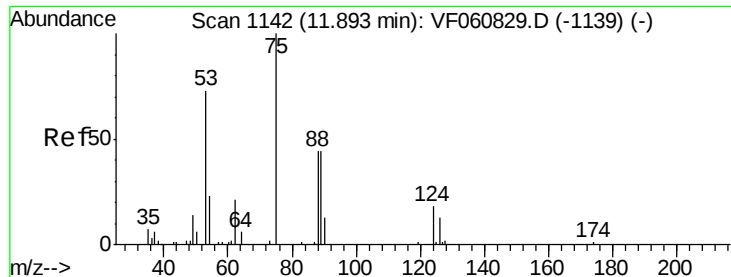
Tgt Ion: 105 Resp: 225377

Ion Ratio Lower Upper

105 100

120 48.0 25.8 77.3





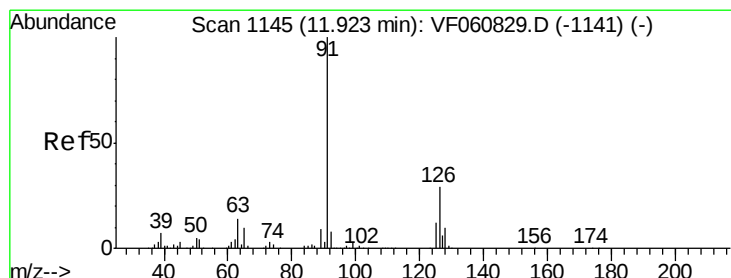
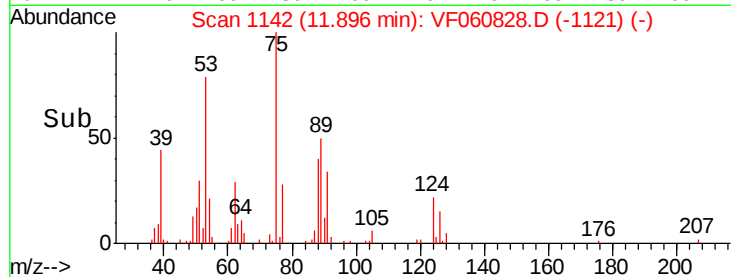
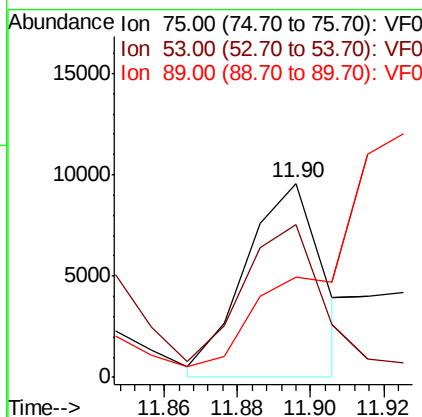
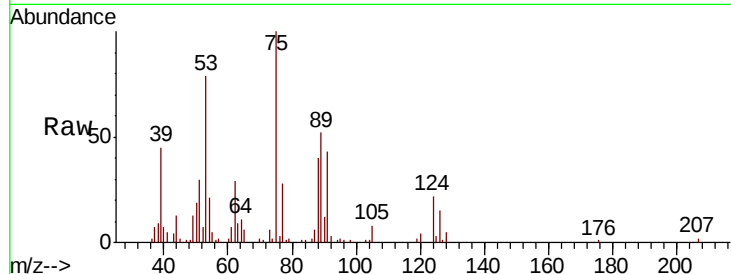
#81
trans-1,4-Dichloro-2-butene
Concen: 17.860 ug/l m
RT: 11.90 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	79.0	65.9	98.9
89	51.7	38.8	58.2

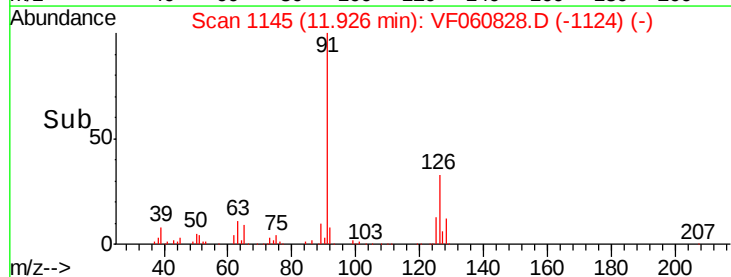
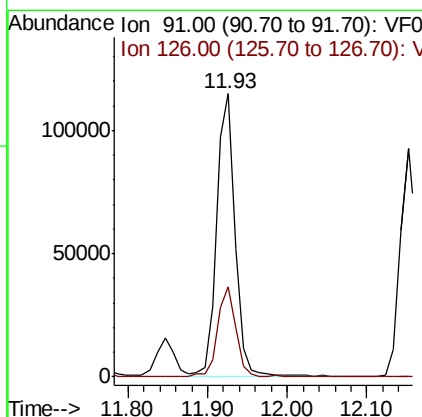
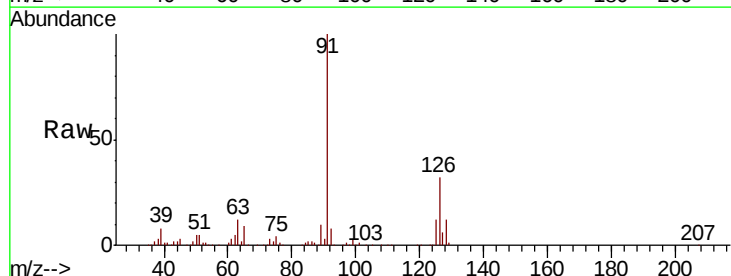
Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#82
4-Chlorotoluene
Concen: 20.552 ug/l
RT: 11.93 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.0	14.8	44.4





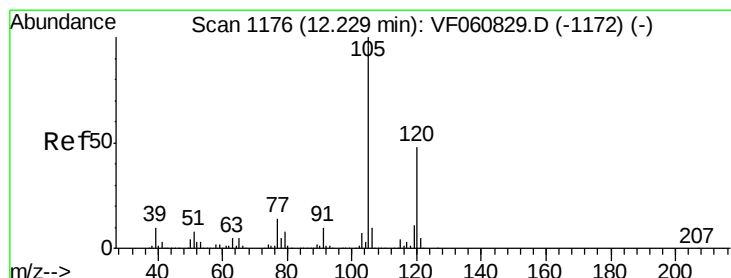
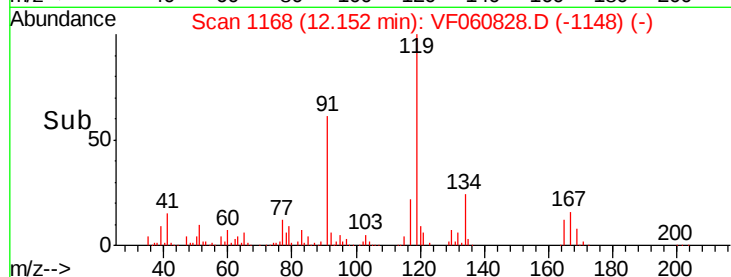
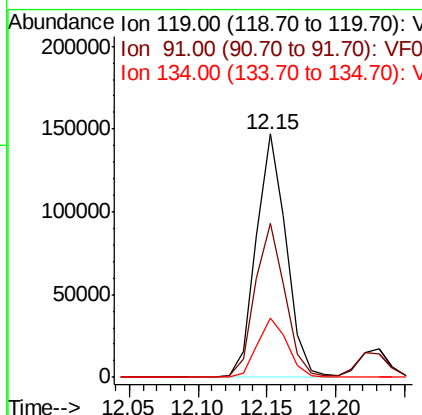
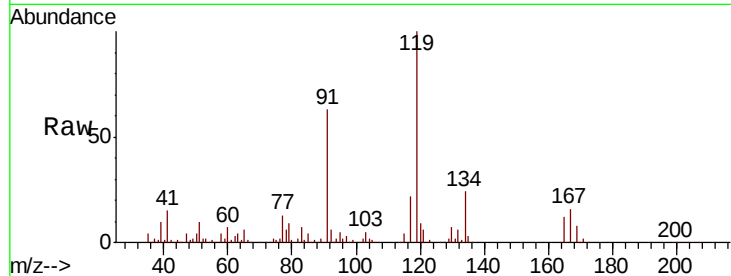
#83
tert-Butylbenzene
Concen: 20.572 ug/l
RT: 12.15 min Scan# 1168
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	224733		
91	63.1		30.1	90.3
134	24.3		12.6	37.8

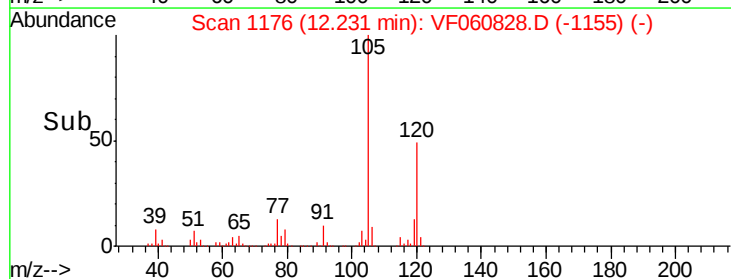
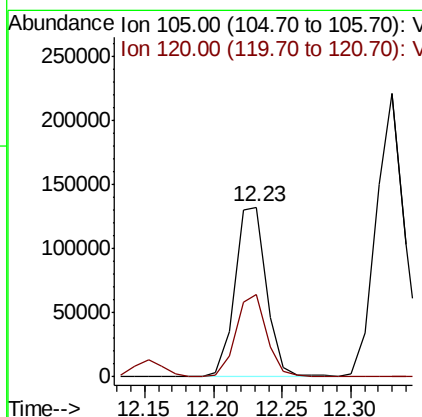
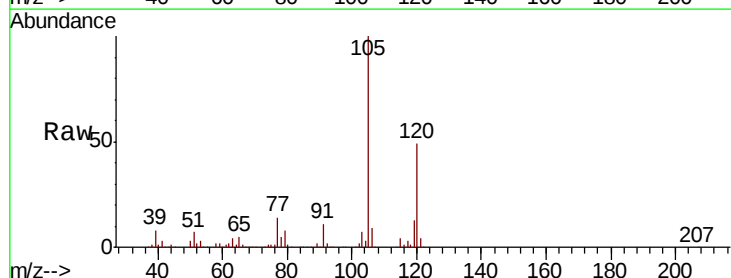
Manual Integrations
APPROVED

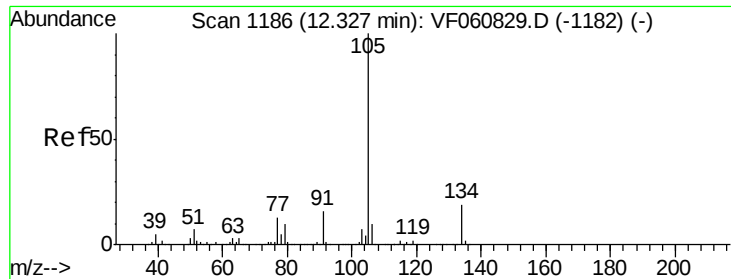
apatel
11/27/2018 3:16:50 PM



#84
1,2,4-Trimethylbenzene
Concen: 19.586 ug/l
RT: 12.23 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	211967		
120	48.8		23.8	71.5





#85

sec-Butylbenzene

Concen: 21.130 ug/l

RT: 12.33 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 315713

Ion Ratio Lower Upper

105 100

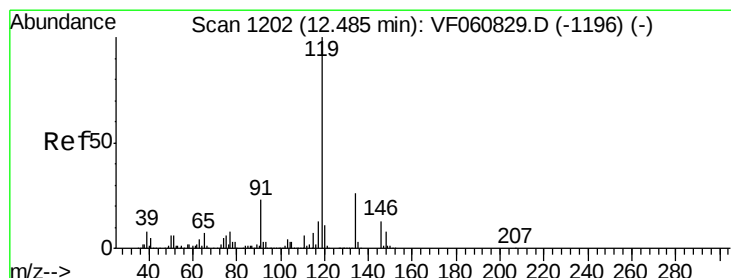
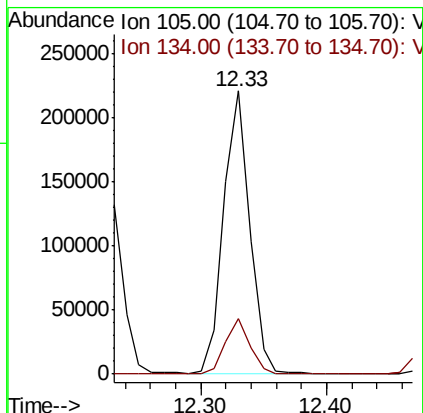
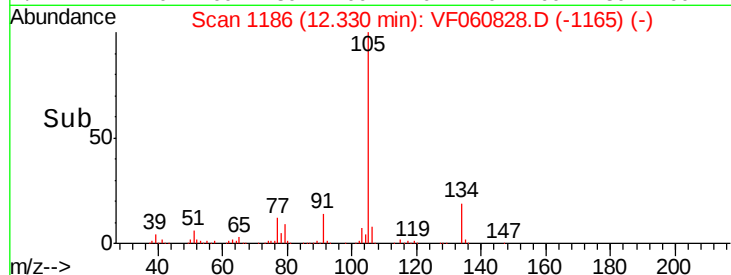
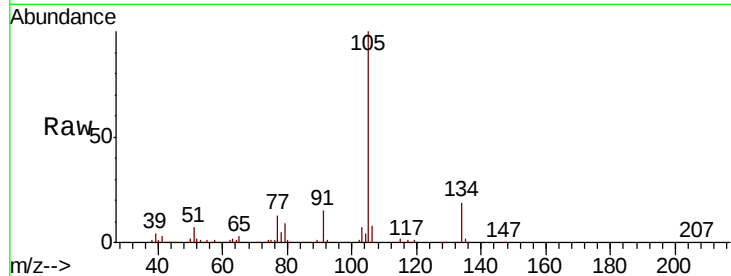
134 19.4 9.5 28.5

Manual Integrations

APPROVED

apatel

11/27/2018 3:16:50 PM



#86

p-Isopropyltoluene

Concen: 20.673 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF060828.D

Acq: 26 Nov 2018 18:02

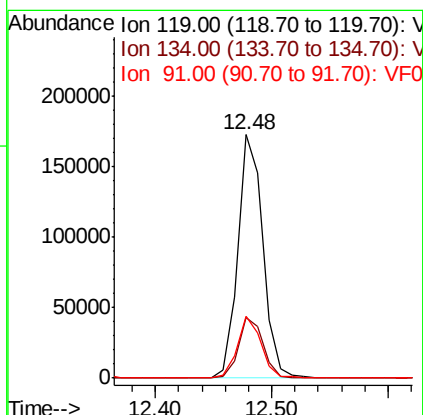
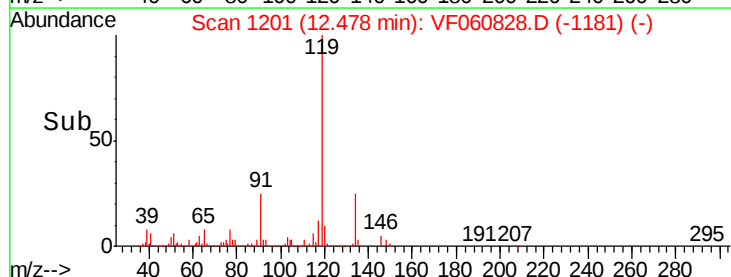
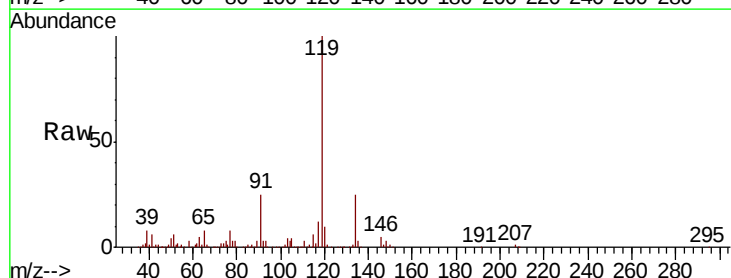
Tgt Ion:119 Resp: 256413

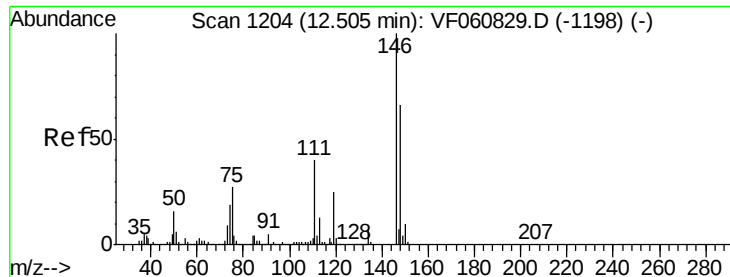
Ion Ratio Lower Upper

119 100

134 24.6 12.9 38.6

91 25.2 11.8 35.3





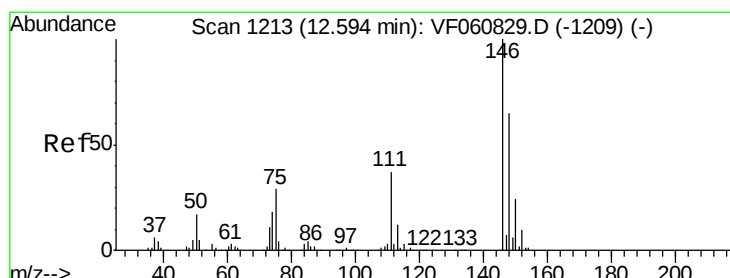
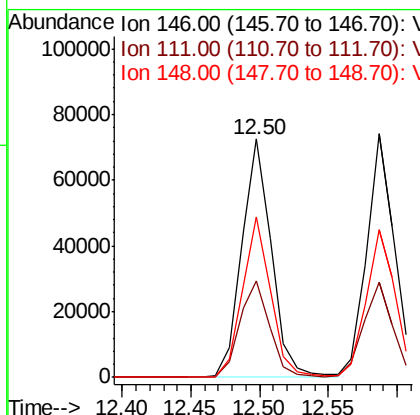
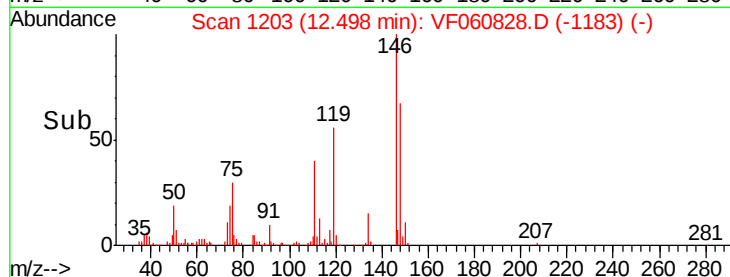
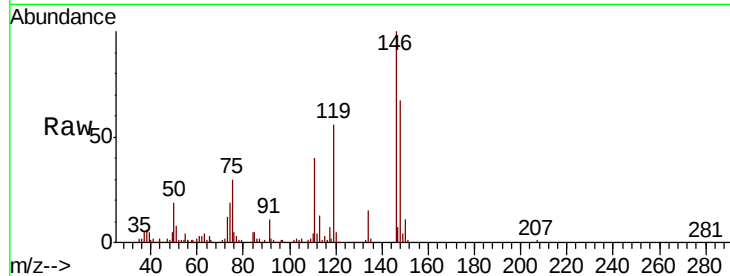
#87
 1,3-Dichlorobenzene
 Concen: 20.080 ug/l
 RT: 12.50 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.0	59.9
148	67.2	32.9	98.6

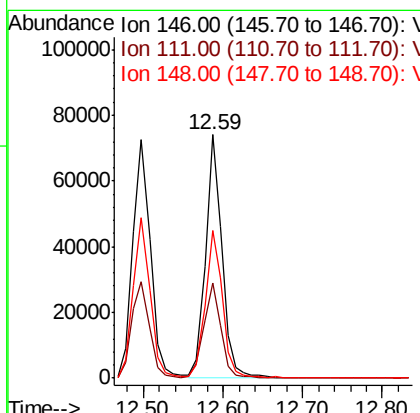
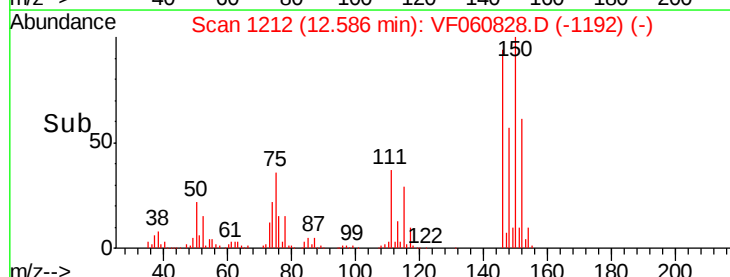
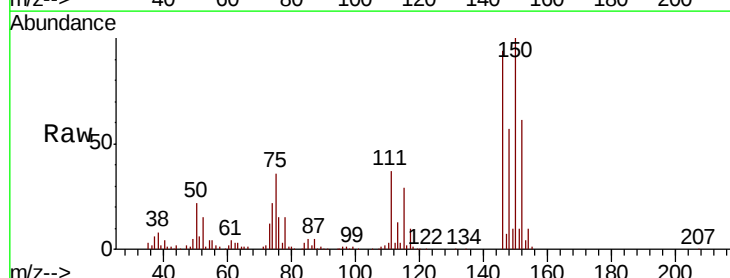
Manual Integrations
 APPROVED

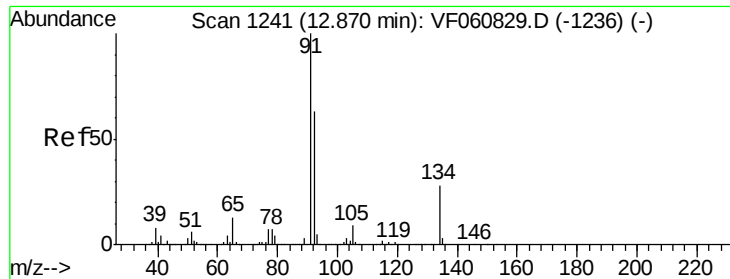
apatel
 11/27/2018 3:16:50 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.583 ug/l
 RT: 12.59 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.3	18.9	56.7
148	60.8	32.3	96.9





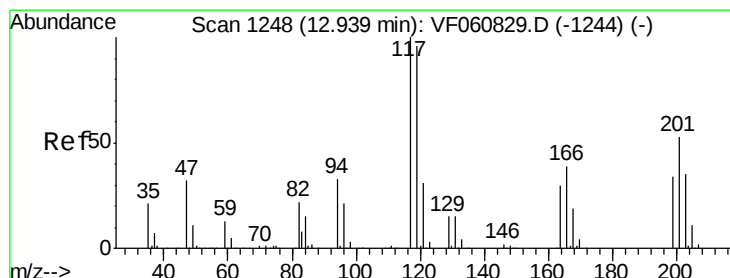
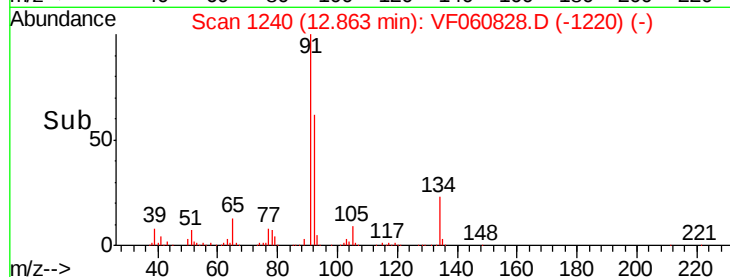
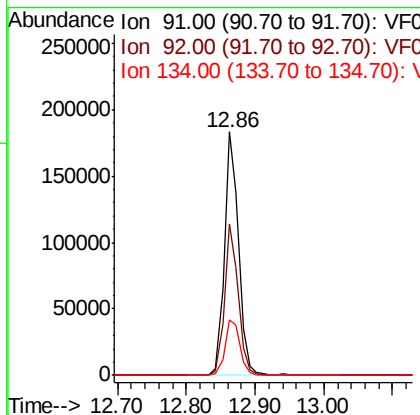
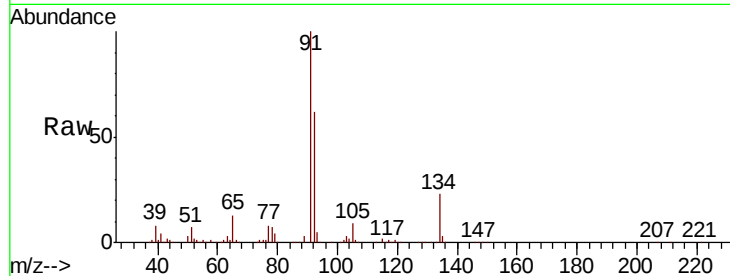
#89
n-Butylbenzene
Concen: 20.213 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.1	31.6	94.7
134	22.9	13.8	41.4

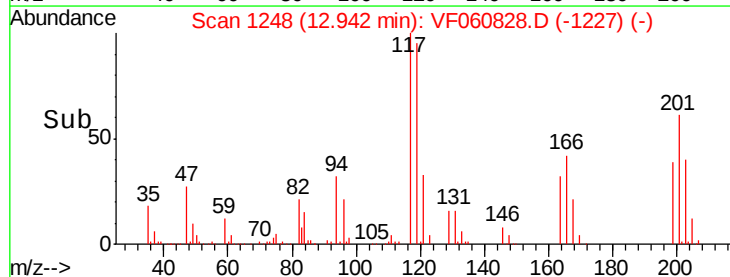
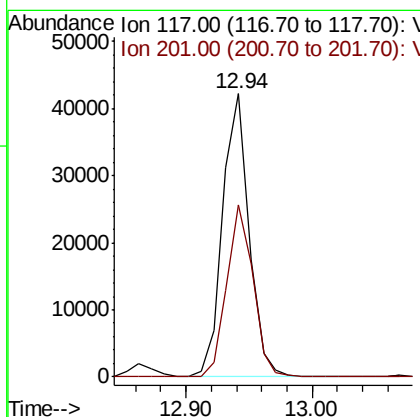
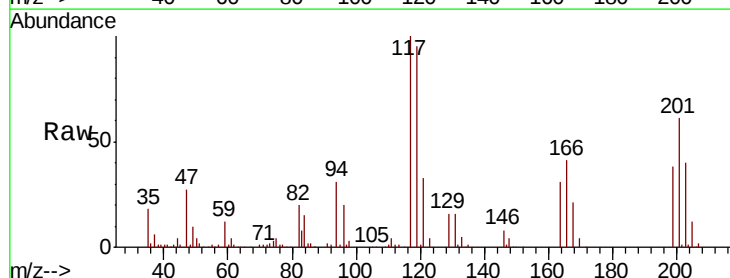
Manual Integrations
APPROVED

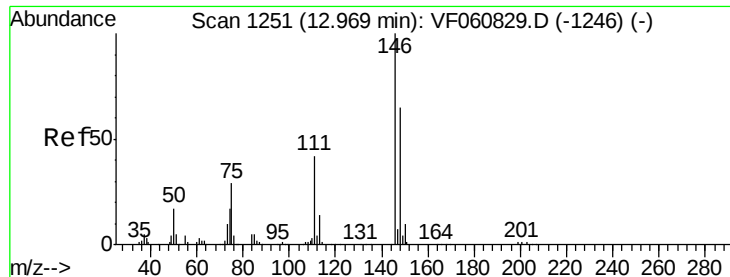
apatel
11/27/2018 3:16:50 PM



#90
Hexachloroethane
Concen: 20.194 ug/l
RT: 12.94 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	60.6	26.7	80.1





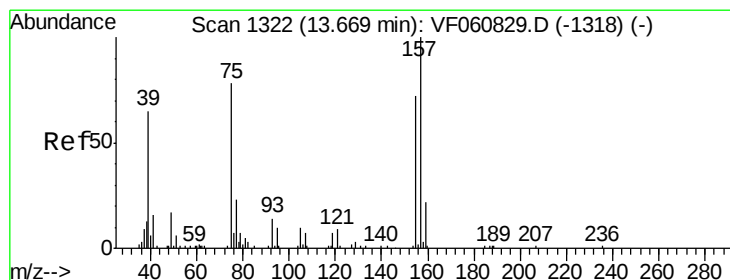
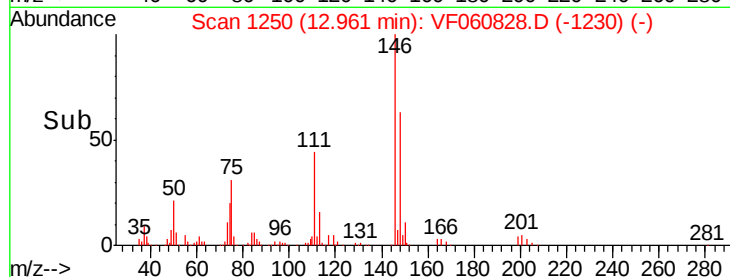
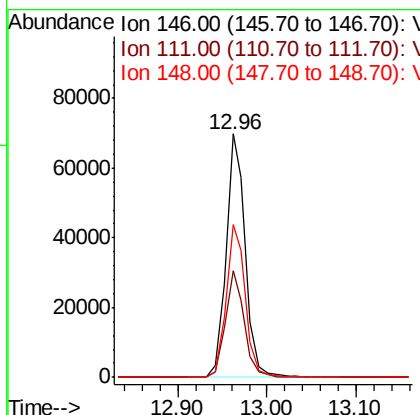
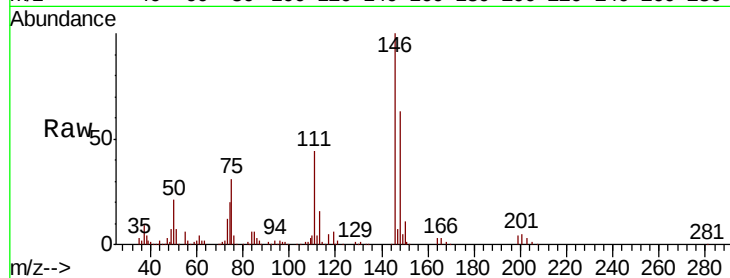
#91
 1,2-Dichlorobenzene
 Concen: 20.595 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. -0.01 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.2	63.6
148	62.8	32.5	97.5

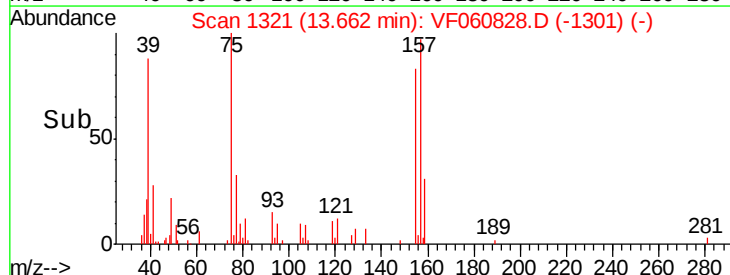
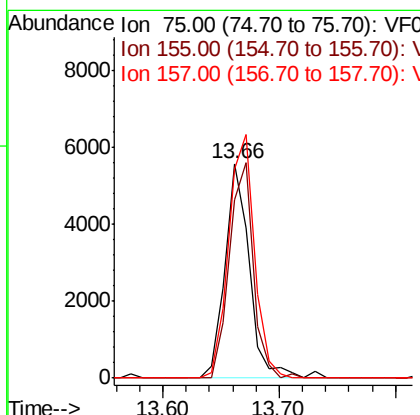
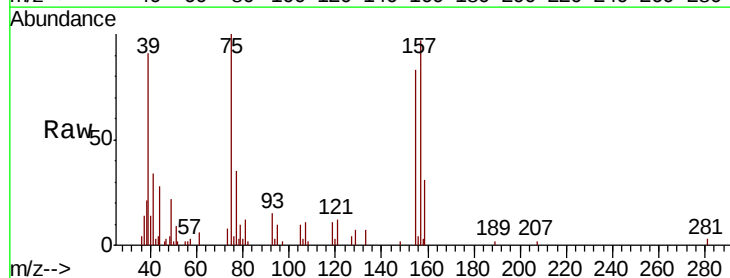
Manual Integrations
 APPROVED

apatel
 11/27/2018 3:16:50 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.175 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.2	45.6	136.9
157	97.4	63.8	191.5





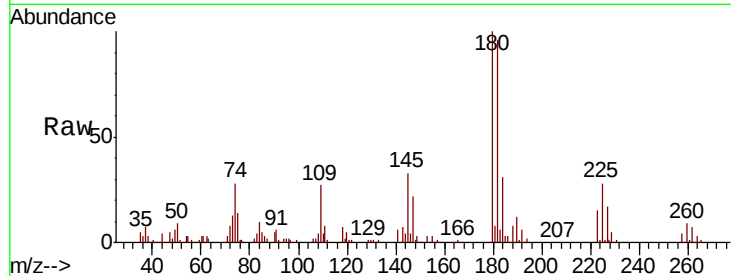
#93
 1,2,4-Trichlorobenzene
 Concen: 20.435 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.00 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	48.5	145.5
145	32.9	18.1	54.3

Manual Integrations
 APPROVED

apatel
 11/27/2018 3:16:50 PM

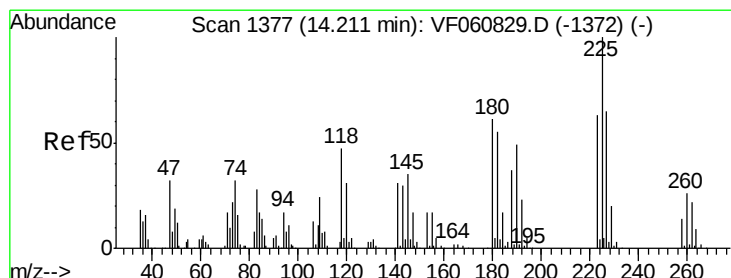
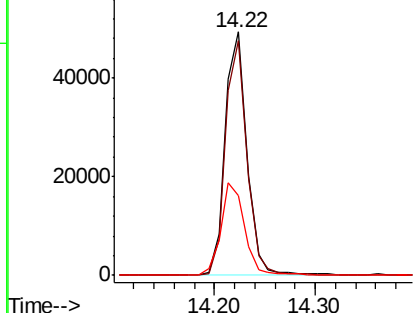
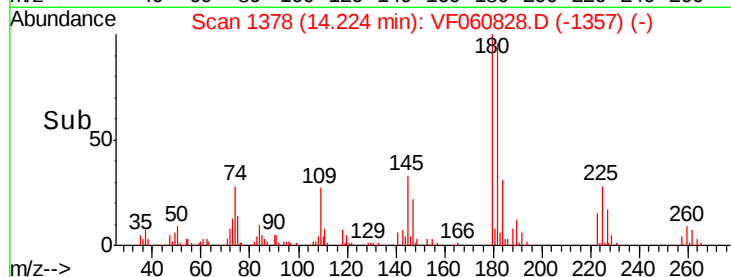


Abundance

Ion 180.00 (179.70 to 180.70): V

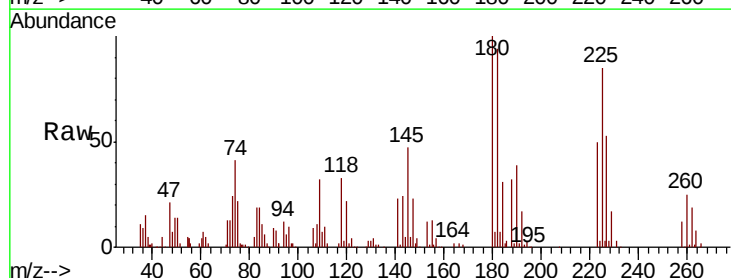
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 19.971 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF060828.D
 Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	58.4	31.4	94.3
227	62.3	32.5	97.5

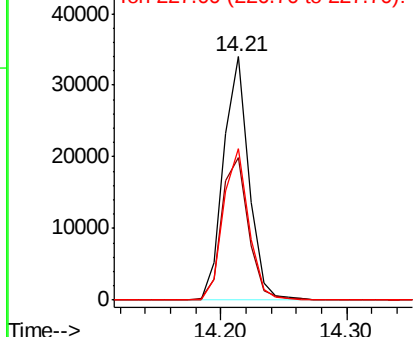
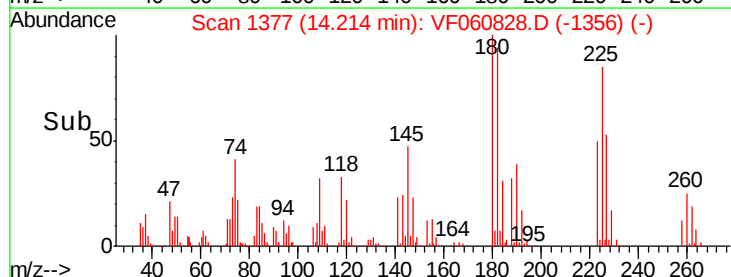


Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





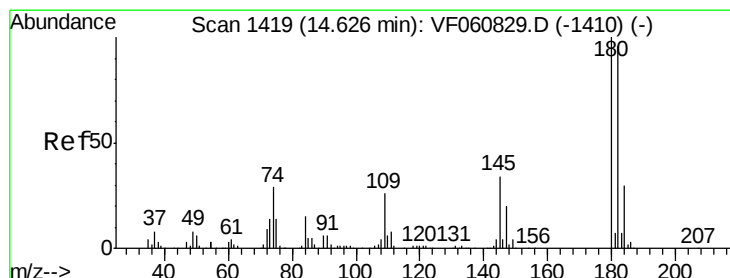
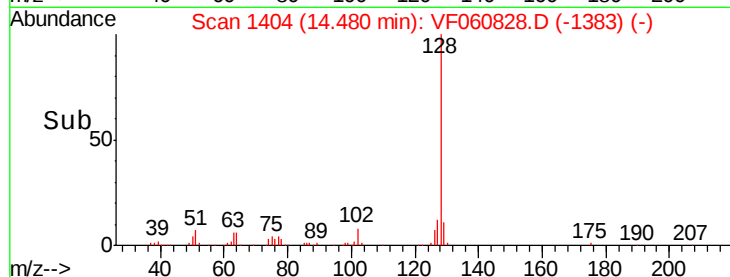
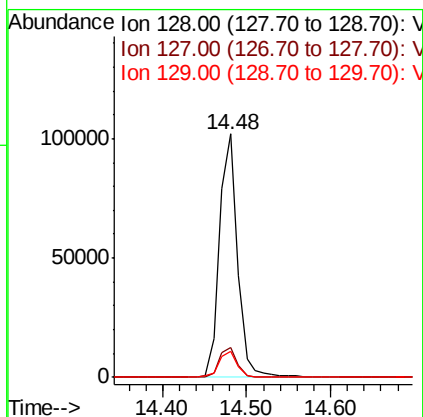
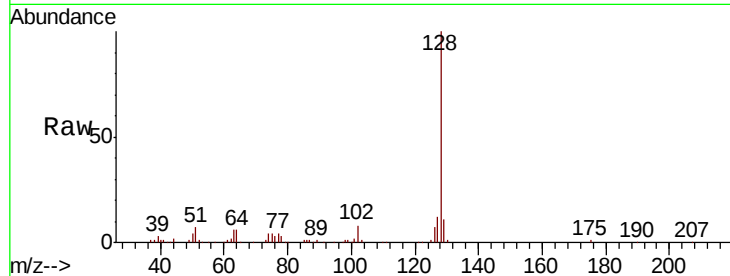
#95
Naphthalene
Concen: 22.816 ug/l
RT: 14.48 min Scan# 1404
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Instrument :
MSVOA_F
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.9	14.9
129	10.6	9.1	13.7

Manual Integrations
APPROVED

apatel
11/27/2018 3:16:50 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.139 ug/l
RT: 14.63 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF060828.D
Acq: 26 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.9	143.8
145	33.6	17.2	51.5

