

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122218\
 Data File : VF061142.D
 Acq On : 22 Dec 2018 14:04
 Operator : VA/AP
 Sample : VF1222SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 11:05:03 AM

Quant Time: Dec 24 03:16:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	204770	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	371705	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.80	117	339990	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.57	152	166429	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.87	65	129759	49.27	ug/l	0.03
Spiked Amount	50.000		Recovery	=	98.54%	
35) Dibromofluoromethane	4.14	113	149788	50.31	ug/l	0.03
Spiked Amount	50.000		Recovery	=	100.62%	
50) Toluene-d8	7.57	98	406489	48.17	ug/l	0.02
Spiked Amount	50.000		Recovery	=	96.34%	
62) 4-Bromofluorobenzene	11.43	95	195951	50.37	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	85985	18.890	ug/l	96
3) Chloromethane	1.10	50	55662	21.348	ug/l	98
4) Vinyl Chloride	1.14	62	51116	21.133	ug/l	97
5) Bromomethane	1.34	94	35092	20.917	ug/l	93
6) Chloroethane	1.39	64	22389	20.088	ug/l	98
7) Trichlorofluoromethane	1.50	101	88914	19.252	ug/l	100
8) Diethyl Ether	1.65	74	11799	18.657	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.84	101	47450	19.816	ug/l	98
10) Methyl Iodide	1.91	142	74761m	19.806	ug/l	
11) Tert butyl alcohol	2.59	59	10145	95.455	ug/l	98
12) 1,1-Dichloroethene	1.80	96	36957	20.474	ug/l #	94
13) Acrolein	2.01	56	7459	97.125	ug/l	98
14) Allyl chloride	2.11	41	46909	24.972	ug/l	87
15) Acrylonitrile	2.96	53	27820	113.199	ug/l	88
16) Acetone	2.25	43	50371	95.671	ug/l	98
17) Carbon Disulfide	1.84	76	113660	20.836	ug/l	95
18) Methyl Acetate	2.37	43	26645m	24.461	ug/l	
19) Methyl tert-butyl Ether	2.45	73	79669	19.885	ug/l	96
20) Methylene Chloride	2.26	84	41941m	22.454	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	37135m	19.235	ug/l	
22) Diisopropyl ether	2.82	45	129357	20.674	ug/l	96
23) Vinyl Acetate	3.21	43	327668	113.515	ug/l	97
24) 1,1-Dichloroethane	2.89	63	78340	21.131	ug/l	99
25) 2-Butanone	4.37	43	92603	108.448	ug/l	98
26) 2,2-Dichloropropane	3.62	77	43768	20.572	ug/l	94
27) cis-1,2-Dichloroethene	3.50	96	58134	19.669	ug/l	89
28) Bromochloromethane	3.74	49	41324	21.968	ug/l #	79
29) Tetrahydrofuran	4.10	42	39144	112.631	ug/l	95
30) Chloroform	3.89	83	111250	20.013	ug/l	95
31) Cyclohexane	3.71	56	83441	21.690	ug/l	93
32) 1,1,1-Trichloroethane	4.11	97	68870	20.670	ug/l	94
36) 1,1-Dichloropropene	4.31	75	80212	17.878	ug/l	98
37) Ethyl Acetate	4.14	43	40827	21.186	ug/l	91
38) Carbon Tetrachloride	4.01	117	67143	19.651	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122218\
 Data File : VF061142.D
 Acq On : 22 Dec 2018 14:04
 Operator : VA/AP
 Sample : VF1222SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF1222SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 11:05:03 AM

Quant Time: Dec 24 03:16:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	88028	21.869	ug/l	95
40) Benzene	4.66	78	195036	20.214	ug/l	93
41) Methacrylonitrile	4.78	41	20763	21.912	ug/l #	90
42) 1,2-Dichloroethane	4.97	62	64382	17.565	ug/l	96
43) Isopropyl Acetate	6.98	43	46231	21.340	ug/l	94
44) Trichloroethene	5.52	130	61893	20.346	ug/l	91
45) 1,2-Dichloropropane	6.26	63	51382	19.573	ug/l	98
46) Dibromomethane	6.12	93	32573	19.131	ug/l	97
47) Bromodichloromethane	6.41	83	84116	19.014	ug/l	97
48) Methyl methacrylate	6.75	41	28820	19.056	ug/l	98
49) 1,4-Dioxane	6.73	88	3722	339.169	ug/l #	64
51) 4-Methyl-2-Pentanone	8.29	43	154200	103.784	ug/l	100
52) Toluene	7.64	92	125136	19.592	ug/l	97
53) t-1,3-Dichloropropene	8.30	75	70191	19.668	ug/l	99
54) cis-1,3-Dichloropropene	7.33	75	90207	20.140	ug/l	97
55) 1,1,2-Trichloroethane	8.51	97	37819	19.752	ug/l	93
56) Ethyl methacrylate	8.64	69	41903	20.225	ug/l	98
57) 1,3-Dichloropropane	8.88	76	66666	19.251	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.32	63	42885	107.773	ug/l	99
59) 2-Hexanone	9.52	43	117509	109.363	ug/l	98
60) Dibromochloromethane	8.74	129	52574	19.155	ug/l	98
61) 1,2-Dibromoethane	9.02	107	39930	19.527	ug/l	98
64) Tetrachloroethene	8.18	164	49722	19.011	ug/l	97
65) Chlorobenzene	9.82	112	141364	20.127	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.95	131	56325	19.623	ug/l	96
67) Ethyl Benzene	9.92	91	263282	20.575	ug/l	100
68) m/p-Xylenes	10.16	106	190409	42.283	ug/l	97
69) o-Xylene	10.73	106	101422	20.307	ug/l	98
70) Styrene	10.81	104	135438	19.251	ug/l	99
71) Bromoform	10.79	173	26227	19.750	ug/l	100
73) Isopropylbenzene	11.15	105	306967	21.403	ug/l	97
74) N-amyl acetate	11.39	43	71902	22.581	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.71	83	52890	22.220	ug/l	93
76) 1,2,3-Trichloropropane	11.82	75	36883	20.821	ug/l	92
77) Bromobenzene	11.51	156	59953	19.419	ug/l	94
78) n-propylbenzene	11.61	91	364865	19.556	ug/l	100
79) 2-Chlorotoluene	11.74	91	207490	21.089	ug/l	97
80) 1,3,5-Trimethylbenzene	11.84	105	250692	21.228	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.89	75	16818m	22.094	ug/l	
82) 4-Chlorotoluene	11.92	91	212133	20.843	ug/l	99
83) tert-Butylbenzene	12.14	119	263754	21.704	ug/l	98
84) 1,2,4-Trimethylbenzene	12.22	105	235397	19.988	ug/l	100
85) sec-Butylbenzene	12.32	105	334173	21.072	ug/l	96
86) p-Isopropyltoluene	12.48	119	273494	20.776	ug/l	99
87) 1,3-Dichlorobenzene	12.49	146	117011	19.996	ug/l	94
88) 1,4-Dichlorobenzene	12.59	146	113495	20.020	ug/l	97
89) n-Butylbenzene	12.86	91	287486	18.991	ug/l	96
90) Hexachloroethane	12.93	117	67816	20.852	ug/l	98
91) 1,2-Dichlorobenzene	12.96	146	111398	20.183	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.66	75	8108	18.562	ug/l	89

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF122218\
Data File : VF061142.D
Acq On : 22 Dec 2018 14:04
Operator : VA/AP
Sample : VF1222SBS01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

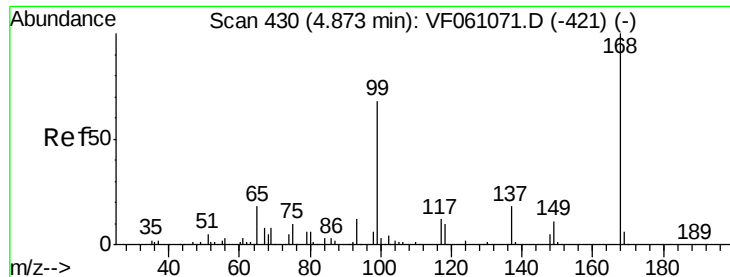
Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM

Quant Time: Dec 24 03:16:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	82738	21.137	ug/l	97
94) Hexachlorobutadiene	14.20	225	49227	19.746	ug/l	94
95) Naphthalene	14.47	128	142481	19.934	ug/l	98
96) 1,2,3-Trichlorobenzene	14.62	180	71847	19.855	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion:168 Resp: 204770

Ion Ratio Lower Upper

168 100

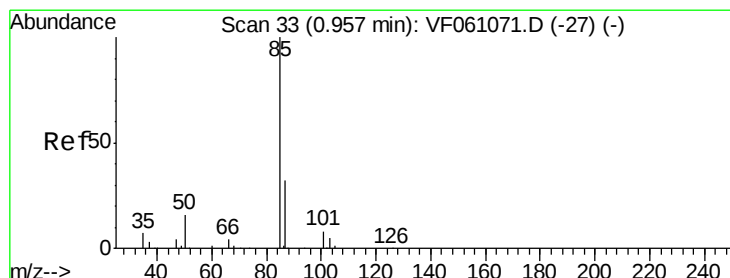
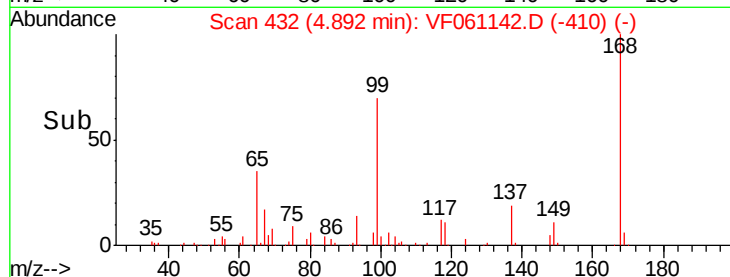
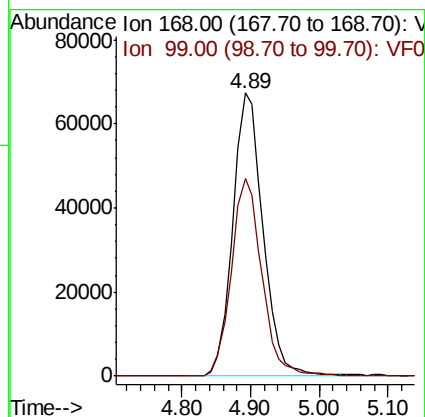
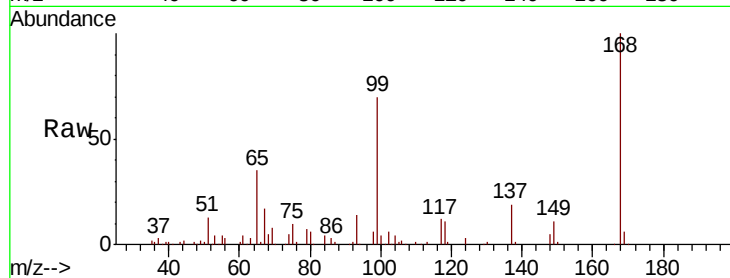
99 70.0 54.4 81.6

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#2

Dichlorodifluoromethane

Concen: 18.890 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061142.D

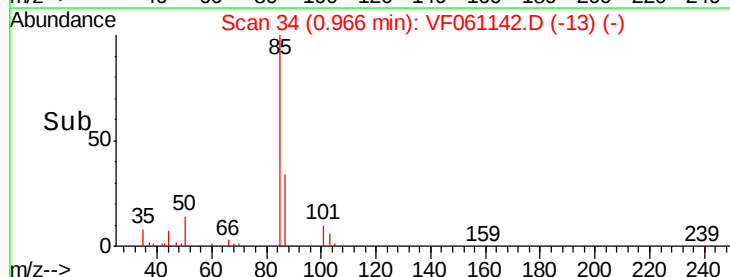
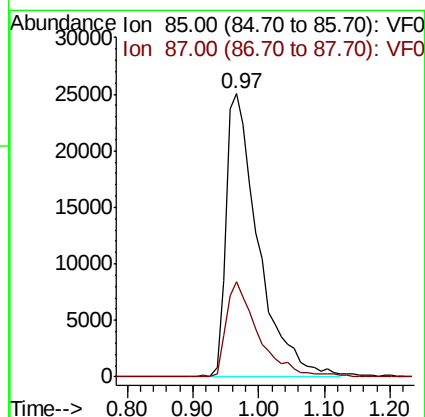
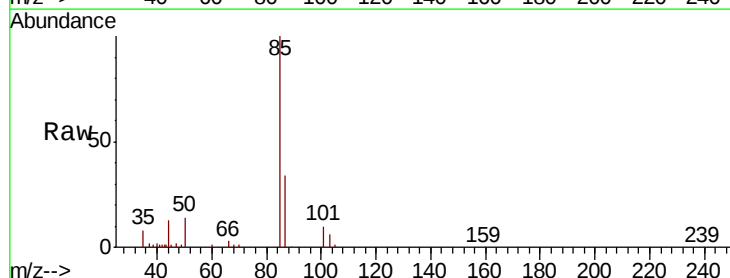
Acq: 22 Dec 2018 14:04

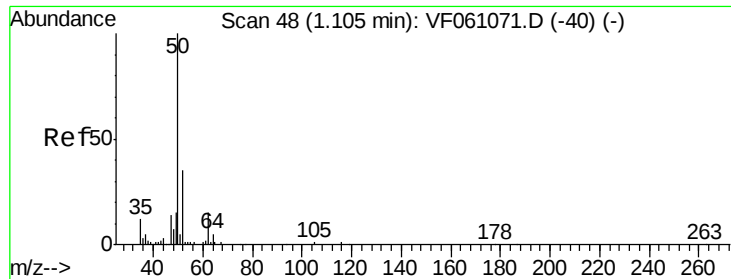
Tgt Ion: 85 Resp: 85985

Ion Ratio Lower Upper

85 100

87 33.8 15.9 47.6





#3

Chloromethane

Concen: 21.348 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 50 Resp: 55662

Ion Ratio Lower Upper

50 100

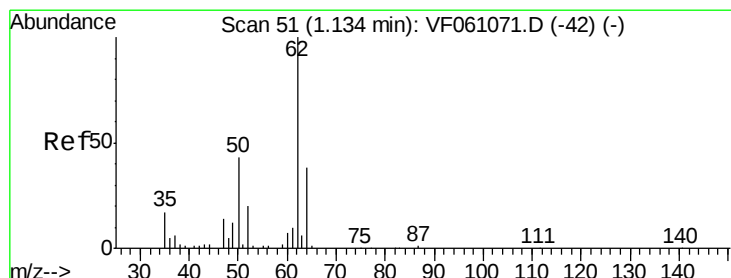
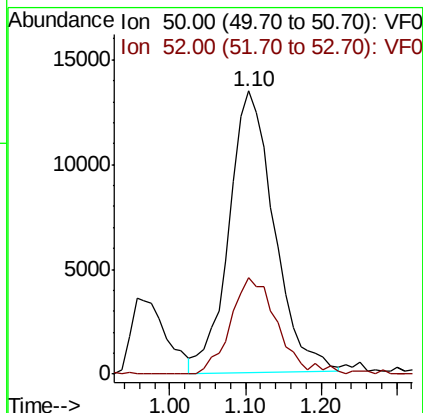
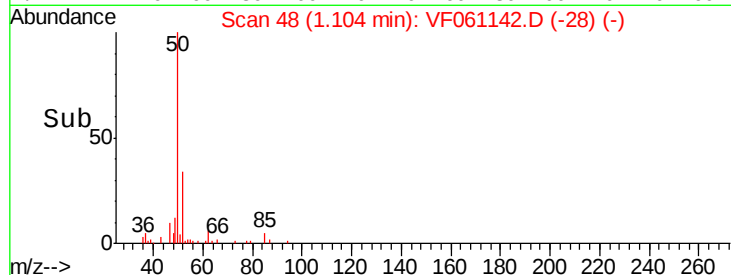
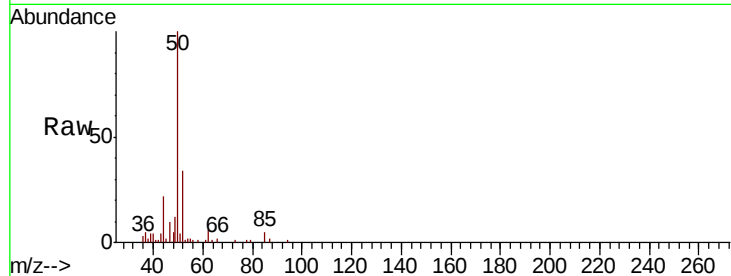
52 34.1 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#4

Vinyl Chloride

Concen: 21.133 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061142.D

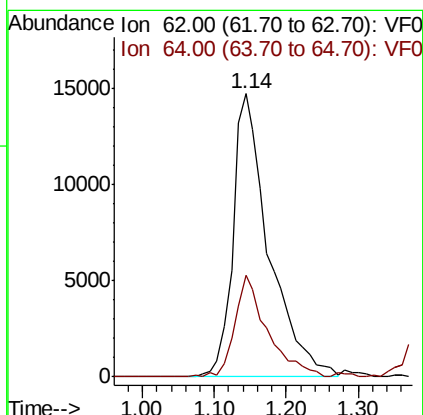
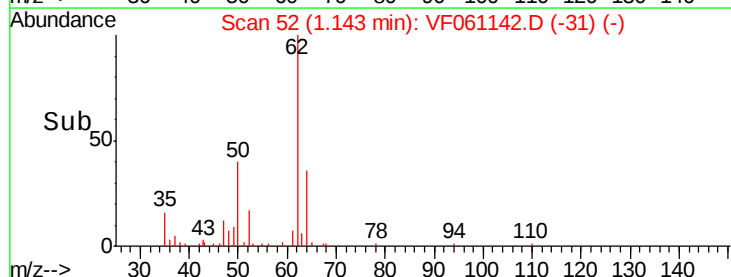
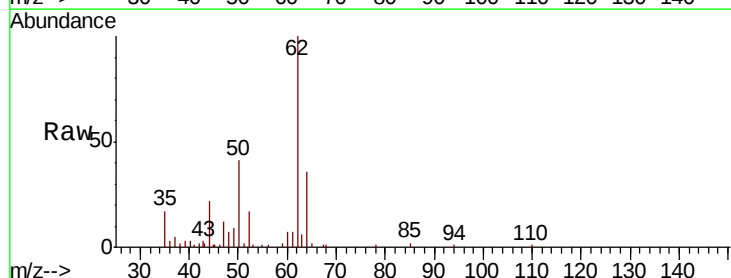
Acq: 22 Dec 2018 14:04

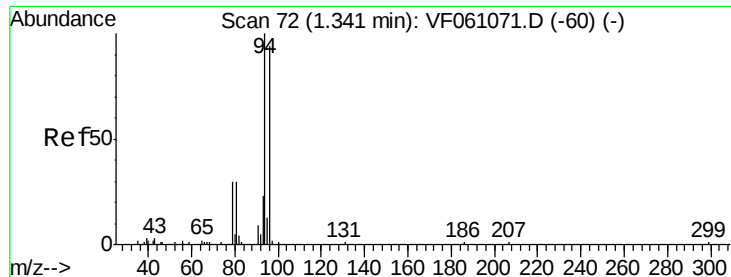
Tgt Ion: 62 Resp: 51116

Ion Ratio Lower Upper

62 100

64 36.0 30.4 45.6





#5

Bromomethane

Concen: 20.917 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.00 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 94 Resp: 35092

Ion Ratio Lower Upper

94 100

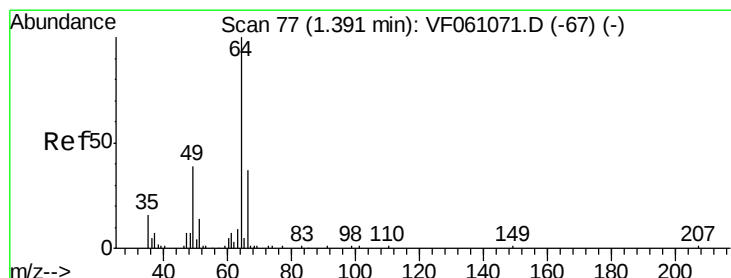
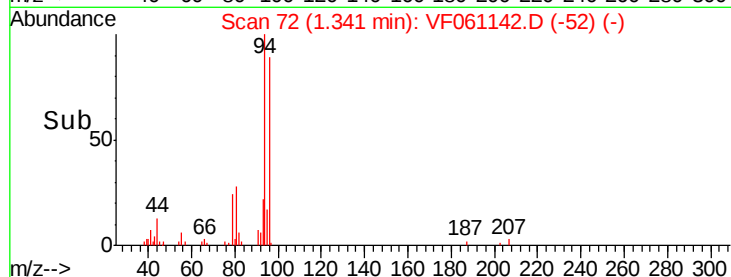
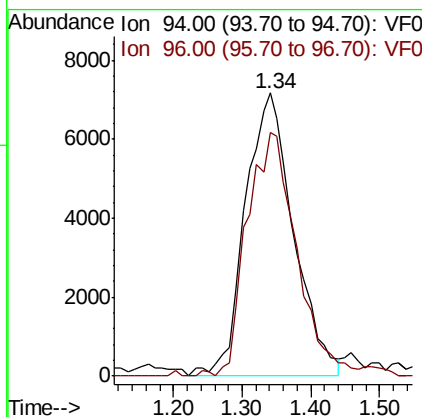
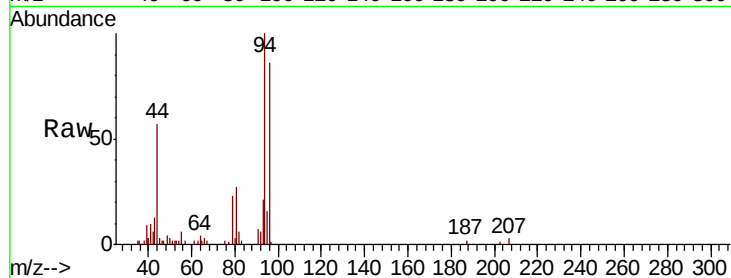
96 86.3 74.4 111.6

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#6

Chloroethane

Concen: 20.088 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061142.D

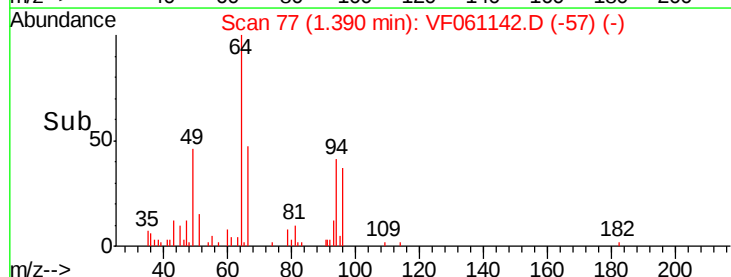
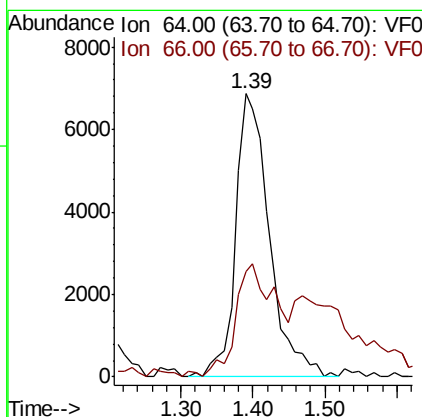
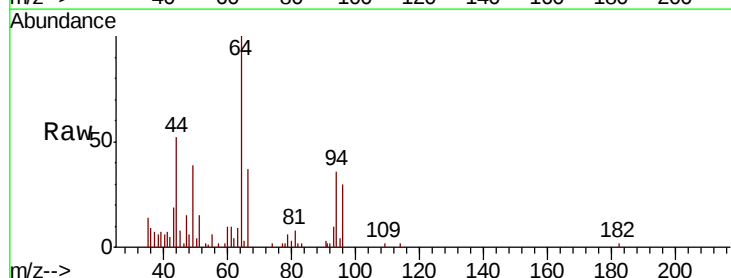
Acq: 22 Dec 2018 14:04

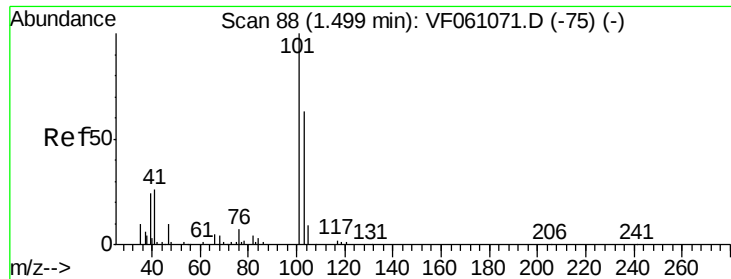
Tgt Ion: 64 Resp: 22389

Ion Ratio Lower Upper

64 100

66 37.4 30.9 46.3





#7

Trichlorofluoromethane

Concen: 19.252 ug/l

RT: 1.50 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion:101 Resp: 88914

Ion Ratio Lower Upper

101 100

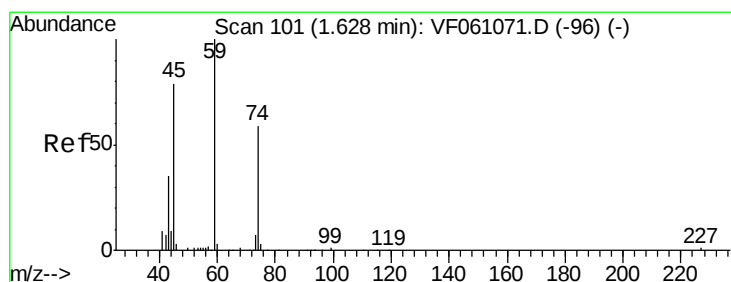
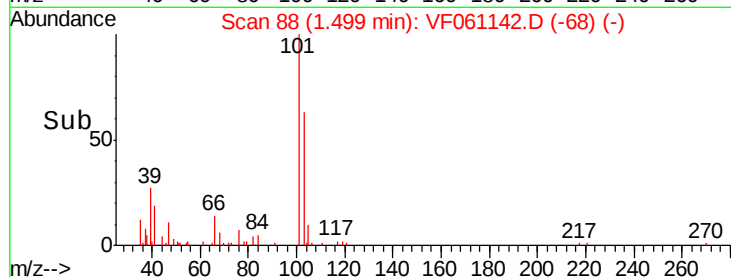
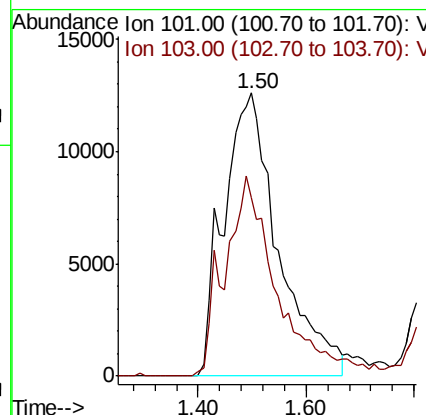
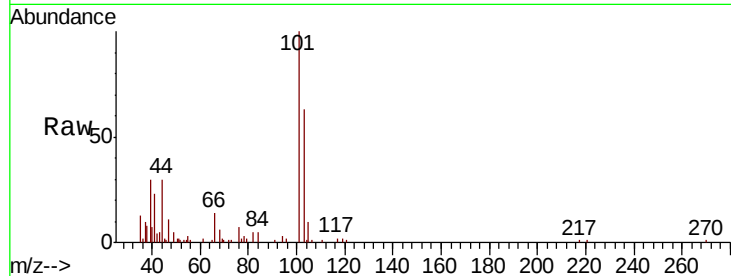
103 63.2 50.7 76.1

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#8

Diethyl Ether

Concen: 18.657 ug/l

RT: 1.65 min Scan# 103

Delta R.T. 0.02 min

Lab File: VF061142.D

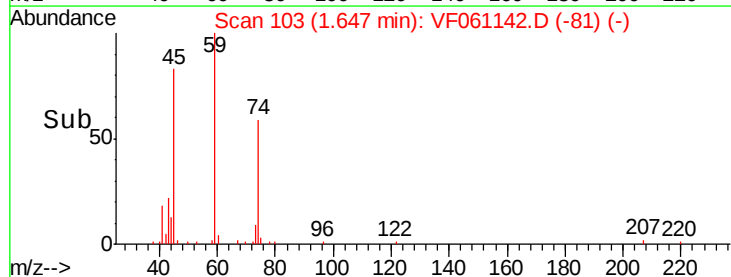
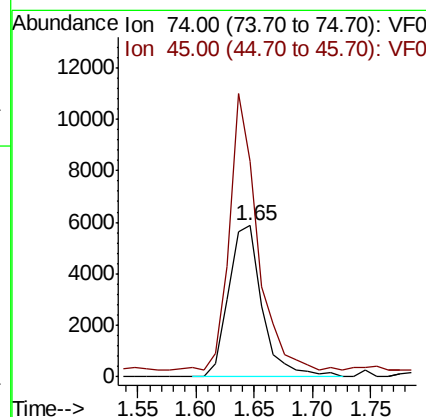
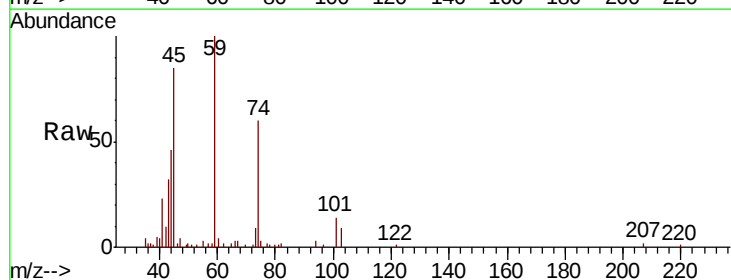
Acq: 22 Dec 2018 14:04

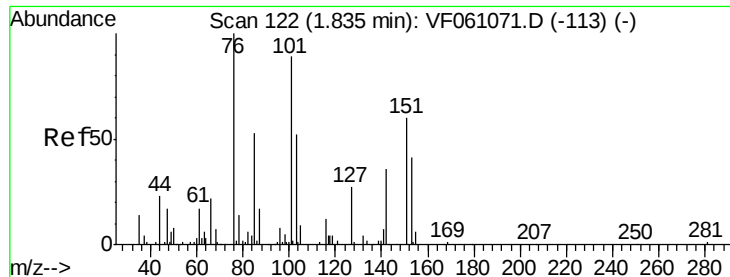
Tgt Ion: 74 Resp: 11799

Ion Ratio Lower Upper

74 100

45 142.5 67.8 203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.816 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

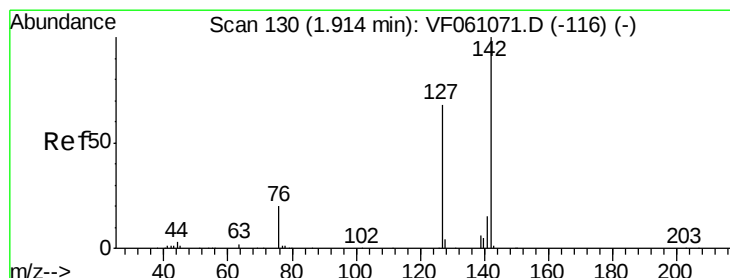
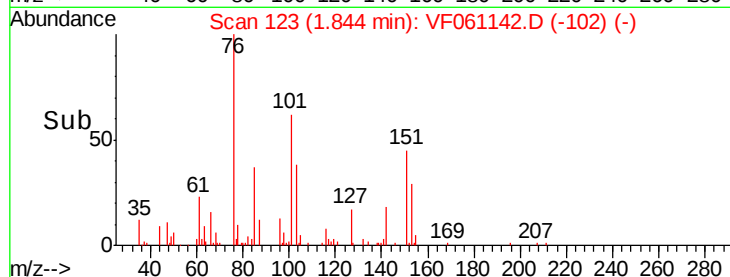
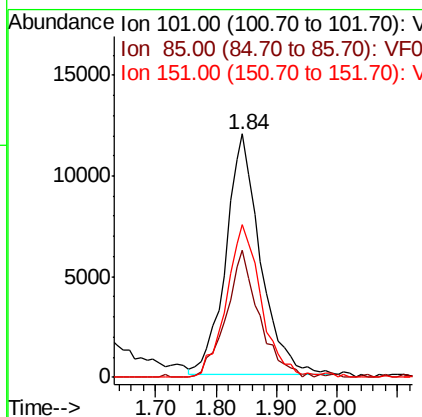
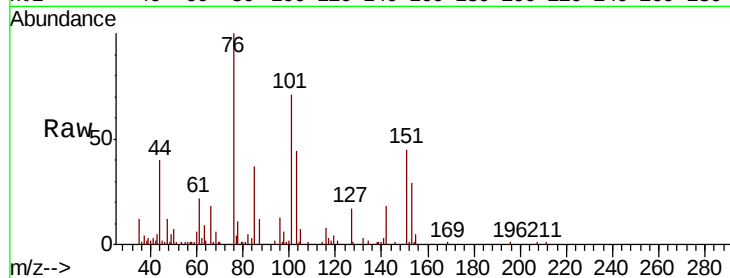
ClientSampleId :

VF1222SBS01

Tgt Ion:	101	Resp:	47450
Ion Ratio	Lower	Upper	
101	100		
85	52.1	44.5	66.7
151	62.6	49.9	74.9

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM



#10

Methyl Iodide

Concen: 19.806 ug/l m

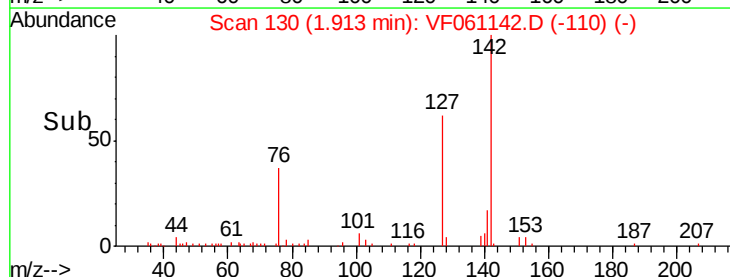
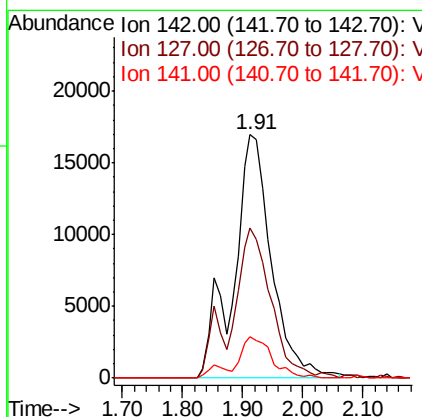
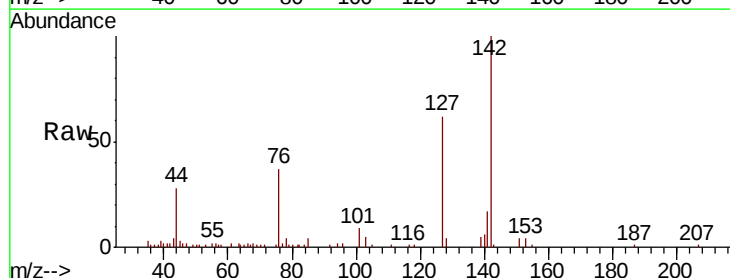
RT: 1.91 min Scan# 130

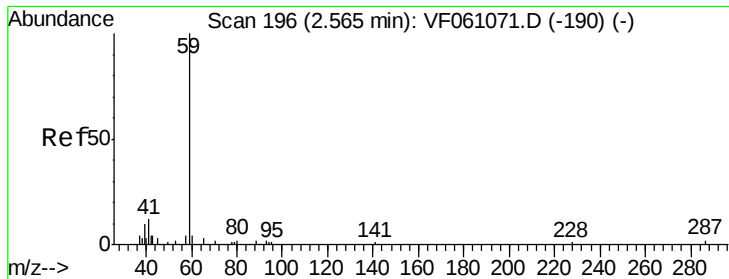
Delta R.T. -0.00 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion:	142	Resp:	74761
Ion Ratio	Lower	Upper	
142	100		
127	61.7	54.7	82.1
141	17.2	12.2	18.2





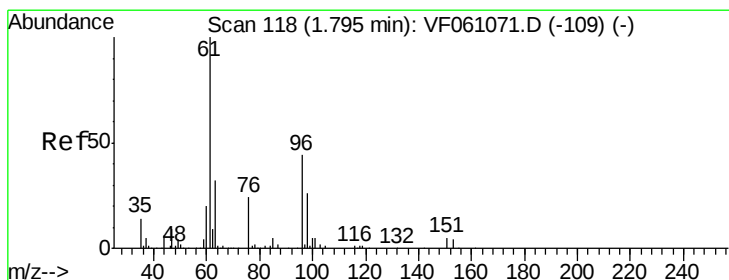
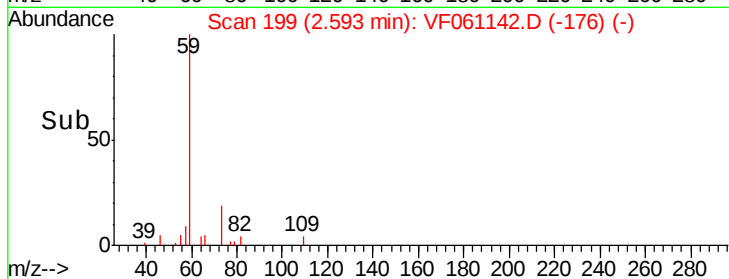
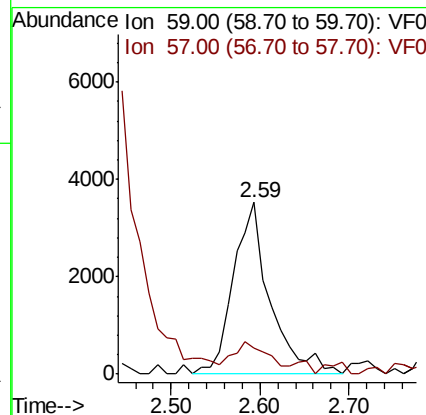
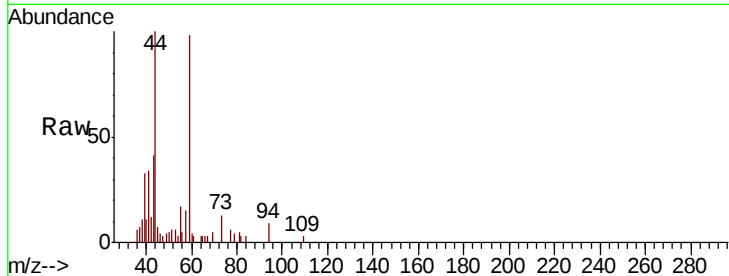
#11
Tert butyl alcohol
Concen: 95.455 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion: 59 Resp: 10145
Ion Ratio Lower Upper
59 100
57 15.1 11.5 17.3

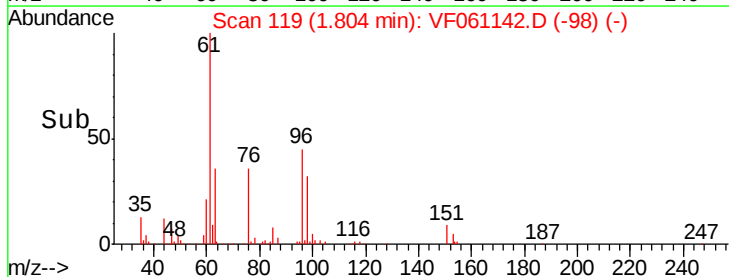
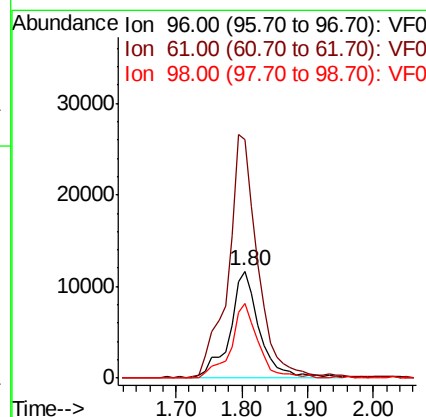
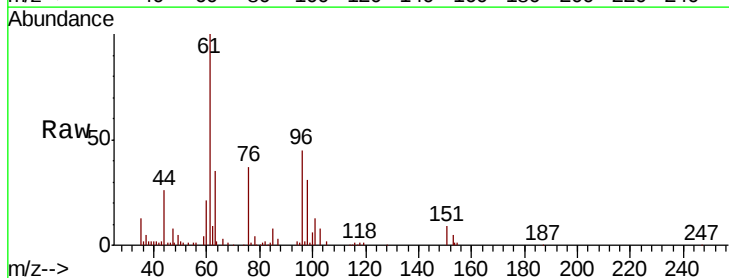
Manual Integrations
APPROVED

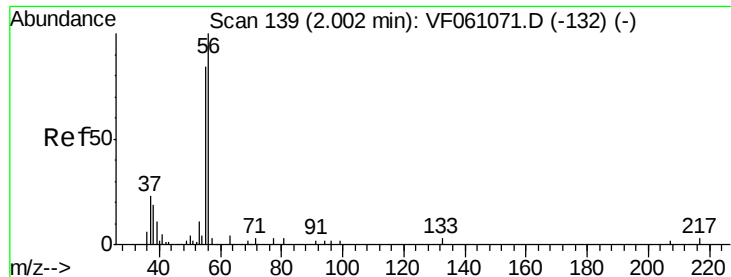
MMDadoda
12/26/2018 11:05:03 AM



#12
1,1-Dichloroethene
Concen: 20.474 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.01 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 96 Resp: 36957
Ion Ratio Lower Upper
96 100
61 222.3 182.0 273.0
98 69.9 46.5 69.7#





#13

Acrolein

Concen: 97.125 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 56 Resp: 7459

Ion Ratio Lower Upper

56 100

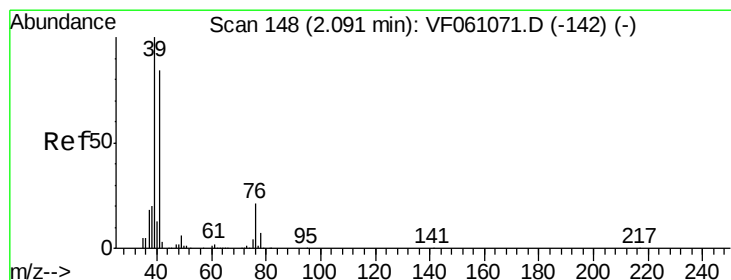
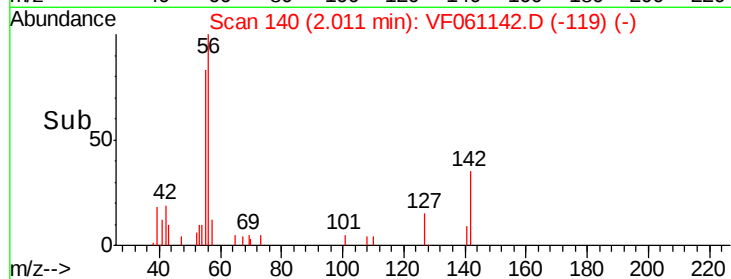
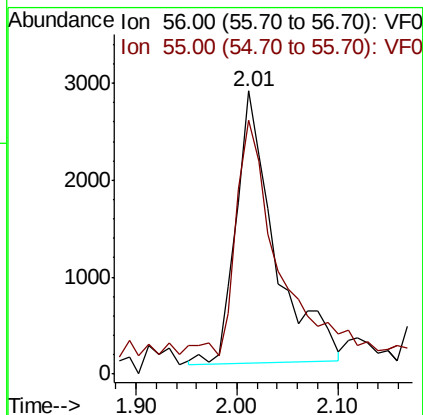
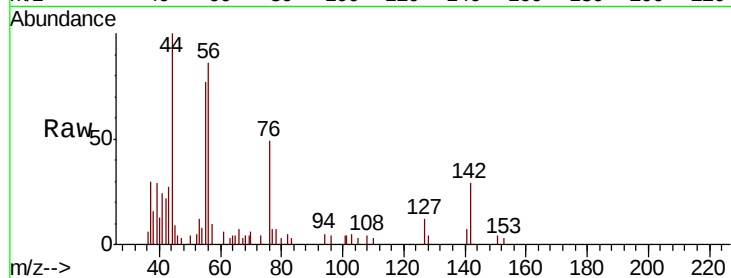
55 89.6 70.2 105.2

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#14

Allyl chloride

Concen: 24.972 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

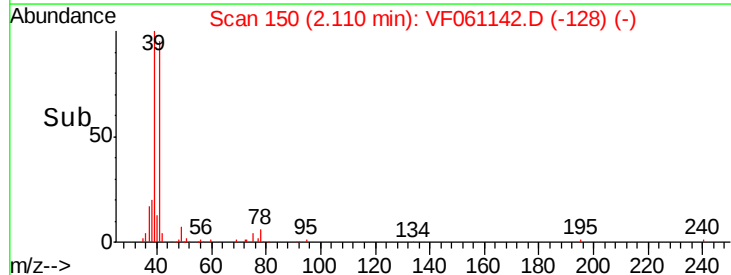
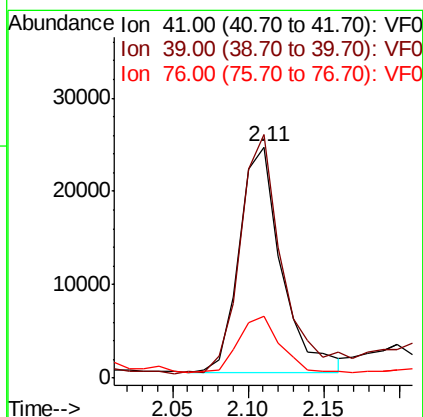
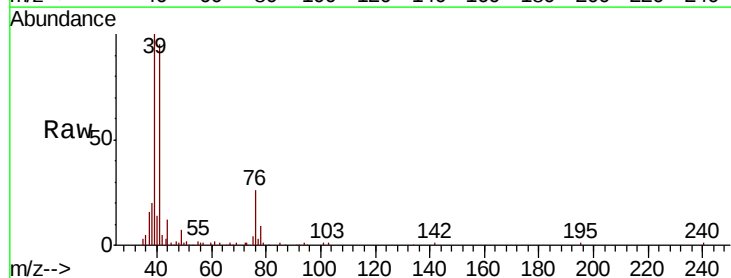
Tgt Ion: 41 Resp: 46909

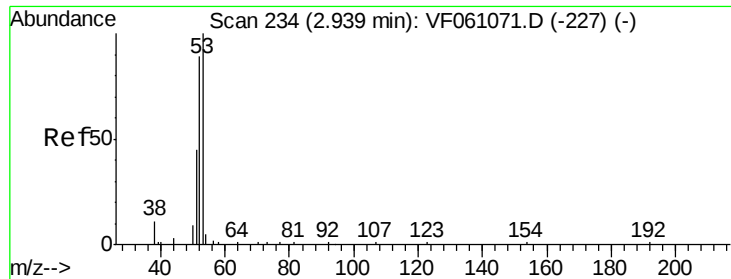
Ion Ratio Lower Upper

41 100

39 105.4 96.4 144.6

76 27.0 25.4 38.0





#15

Acrylonitrile

Concen: 113.199 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

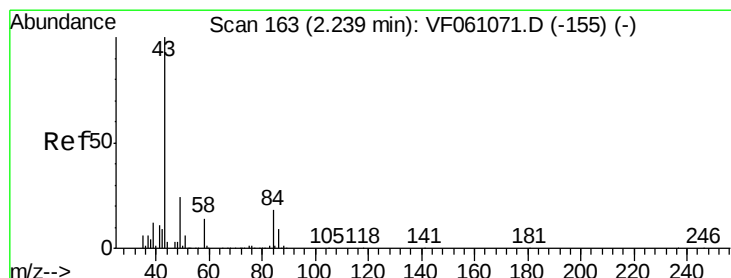
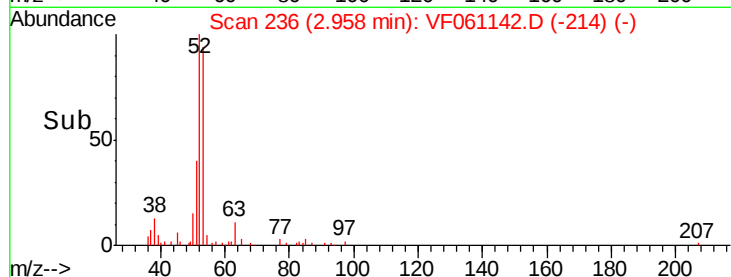
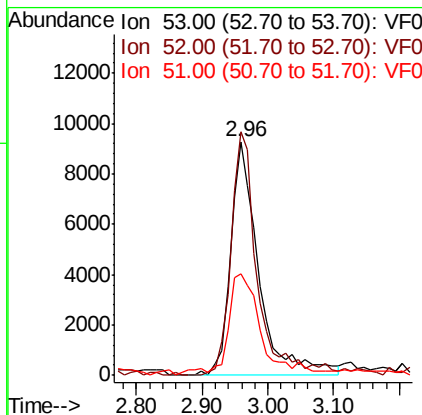
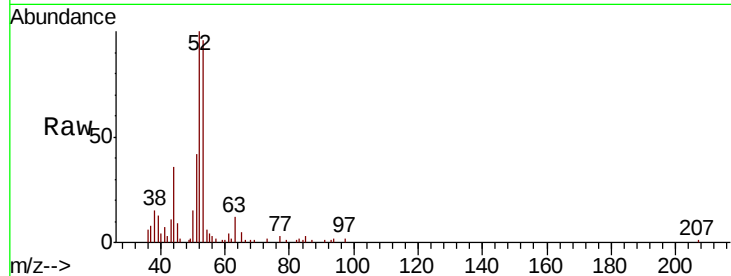
ClientSampleId :

VF1222SBS01

Tgt Ion:	53	Resp:	27820
Ion	Ratio	Lower	Upper
53	100		
52	104.1	71.3	106.9
51	43.2	36.8	55.2

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM



#16

Acetone

Concen: 95.671 ug/l

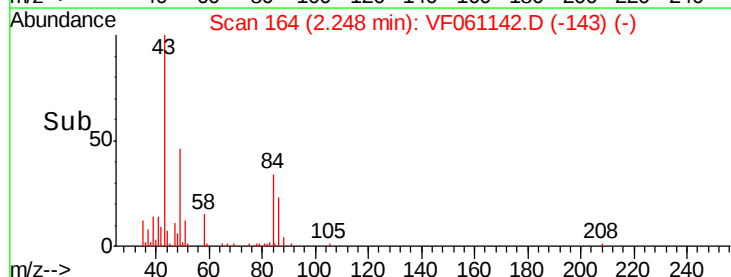
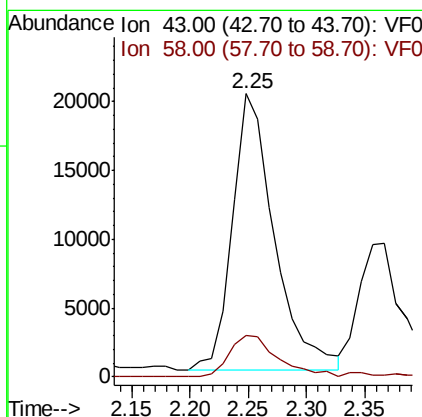
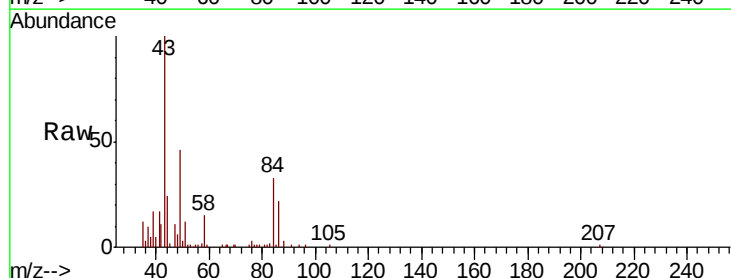
RT: 2.25 min Scan# 164

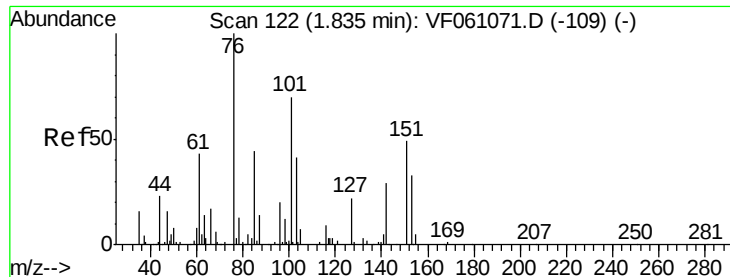
Delta R.T. 0.01 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion:	43	Resp:	50371
Ion	Ratio	Lower	Upper
43	100		
58	14.8	11.1	16.7





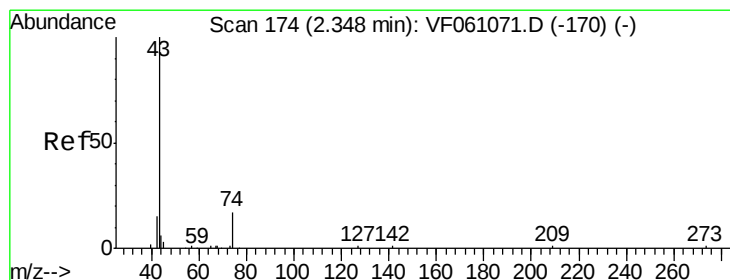
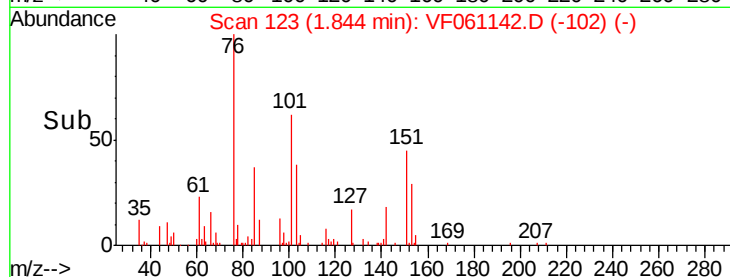
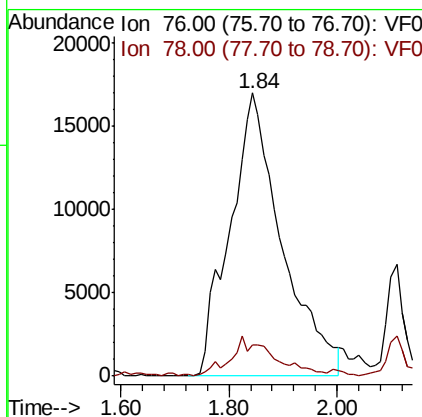
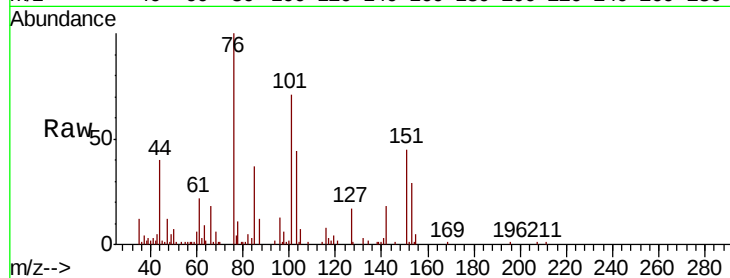
#17
Carbon Disulfide
Concen: 20.836 ug/l
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion: 76 Resp: 113660
Ion Ratio Lower Upper
76 100
78 10.8 10.2 15.4

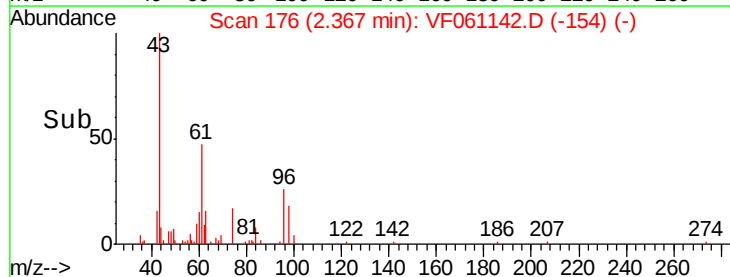
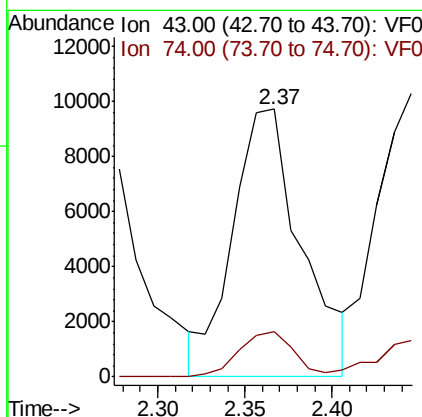
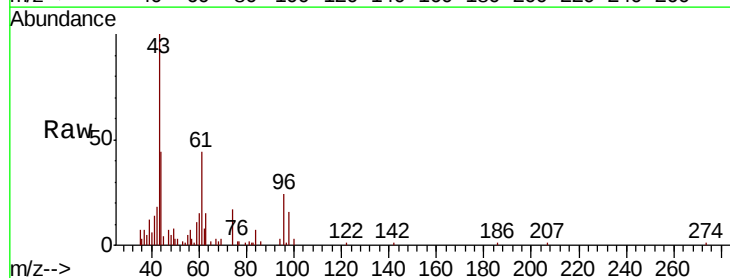
Manual Integrations
APPROVED

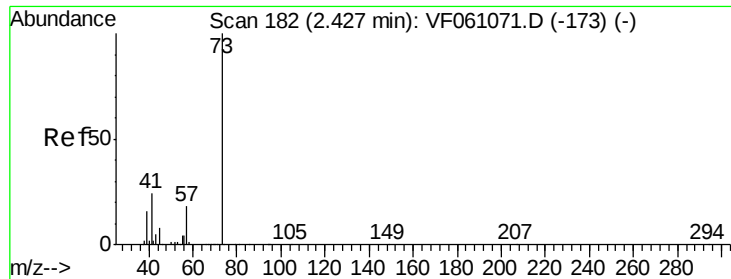
MMDadoda
12/26/2018 11:05:03 AM



#18
Methyl Acetate
Concen: 24.461 ug/l m
RT: 2.37 min Scan# 176
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 43 Resp: 26645
Ion Ratio Lower Upper
43 100
74 16.8 11.0 16.6#





#19

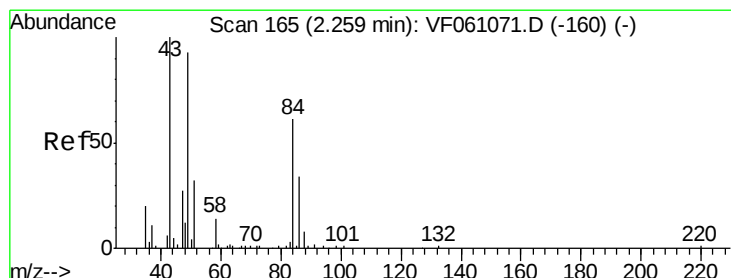
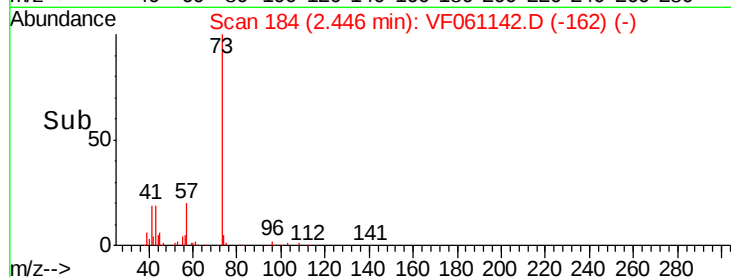
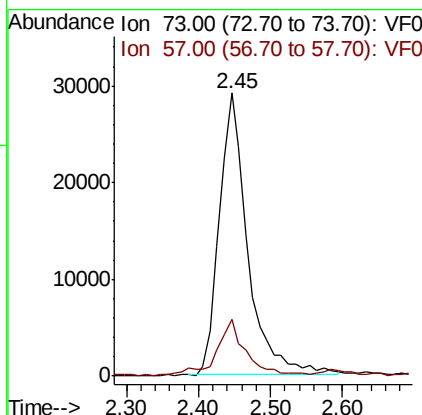
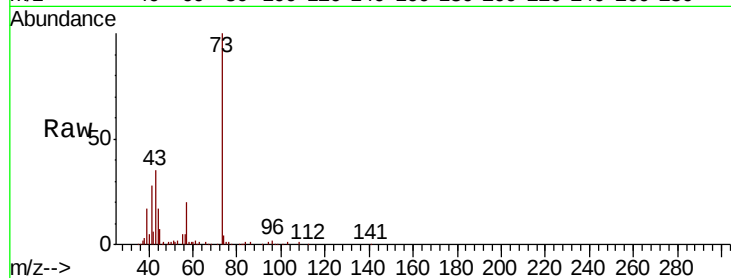
Methyl tert-butyl Ether
 Concen: 19.885 ug/l
 RT: 2.45 min Scan# 184
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion: 73 Resp: 79669
 Ion Ratio Lower Upper
 73 100
 57 19.9 14.5 21.7

Manual Integrations
 APPROVED

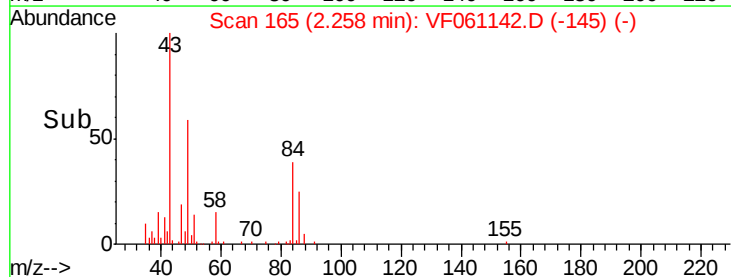
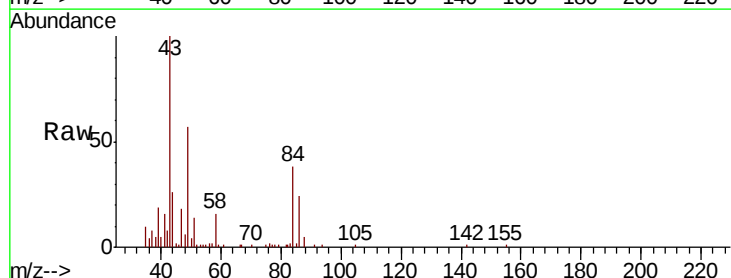
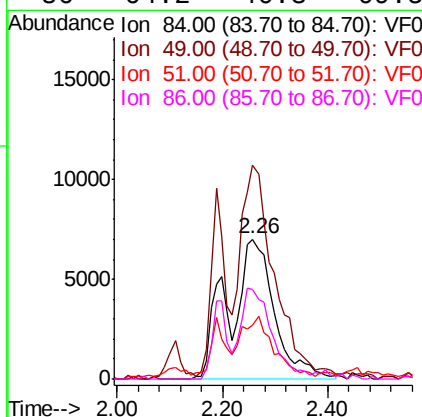
MMDadoda
 12/26/2018 11:05:03 AM

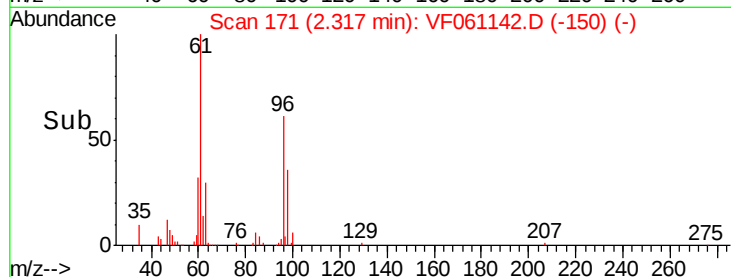
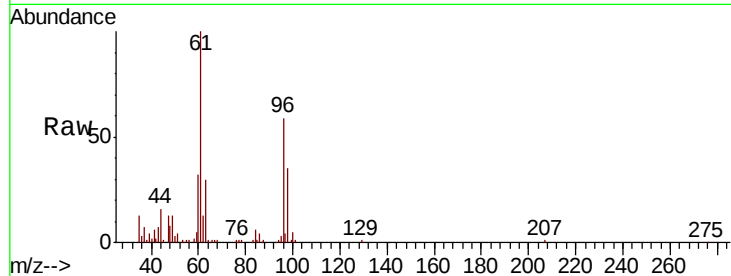
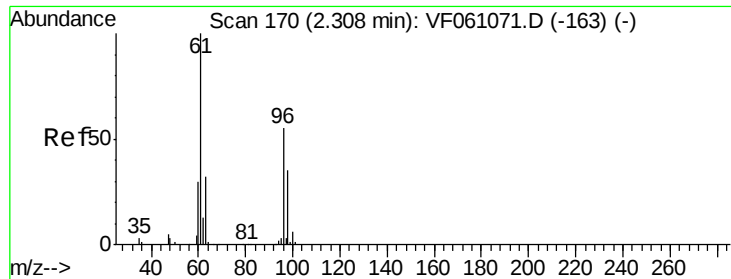


#20

Methylene Chloride
 Concen: 22.454 ug/l m
 RT: 2.26 min Scan# 165
 Delta R.T. 0.00 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion: 84 Resp: 41941
 Ion Ratio Lower Upper
 84 100
 49 152.4 129.4 194.2
 51 38.2 44.0 66.0#
 86 64.2 46.3 69.5





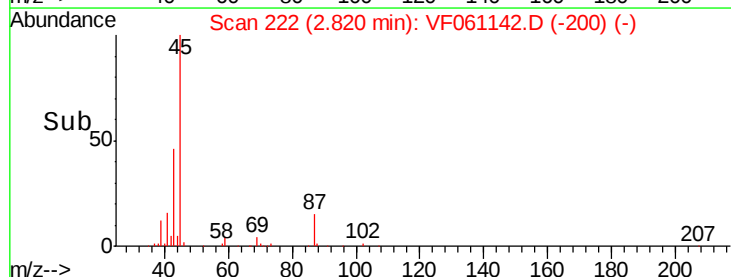
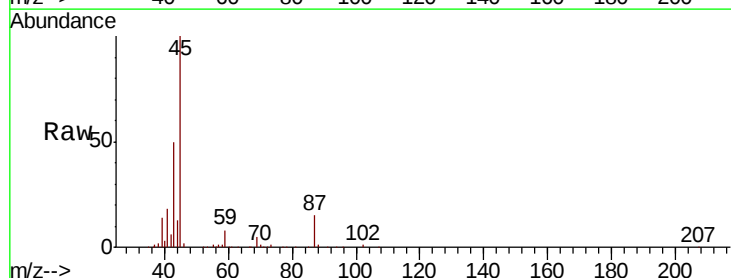
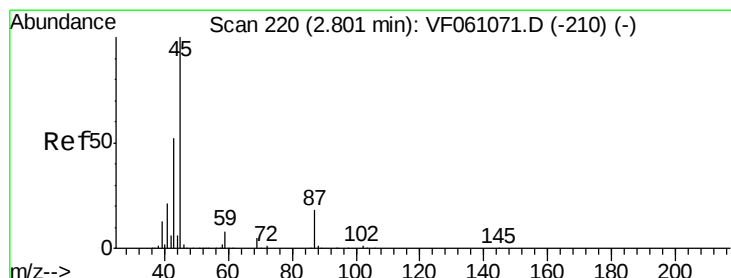
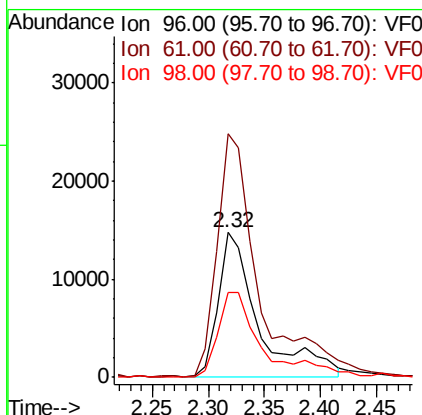
#21
trans-1,2-Dichloroethene
Concen: 19.235 ug/l m
RT: 2.32 min Scan# 171
Delta R.T. 0.01 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.3	146.0	219.0
98	59.0	51.6	77.4

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

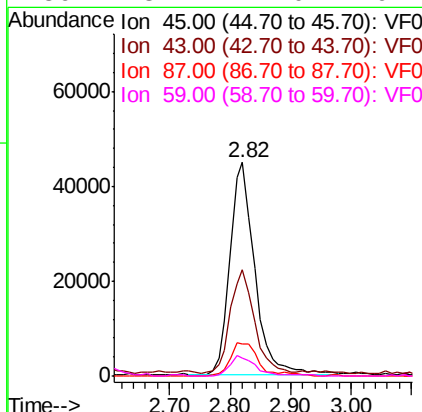
Manual Integrations
APPROVED

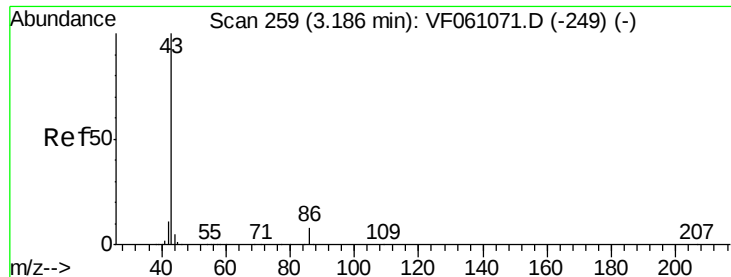
MMDadoda
12/26/2018 11:05:03 AM



#22
Diisopropyl ether
Concen: 20.674 ug/l
RT: 2.82 min Scan# 222
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
45	100		
43	50.0	42.2	63.2
87	15.2	14.6	22.0
59	8.4	7.0	10.4





#23

Vinyl Acetate

Concen: 113.515 ug/l

RT: 3.21 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 43 Resp: 327668

Ion Ratio Lower Upper

43 100

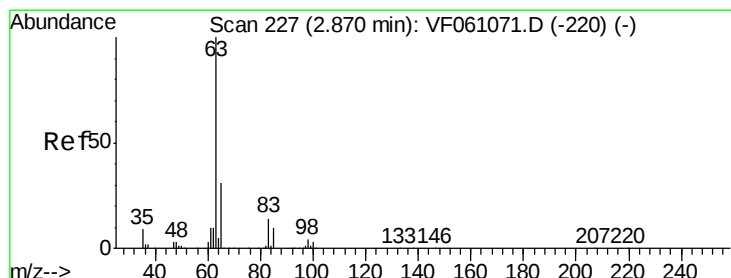
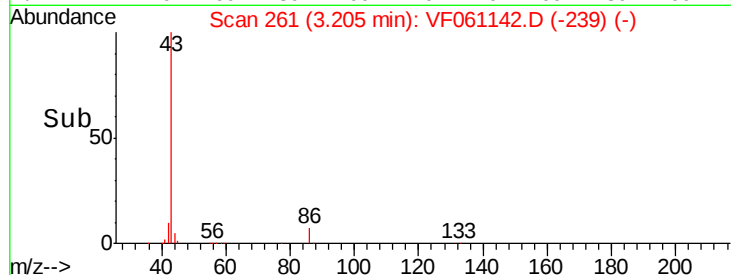
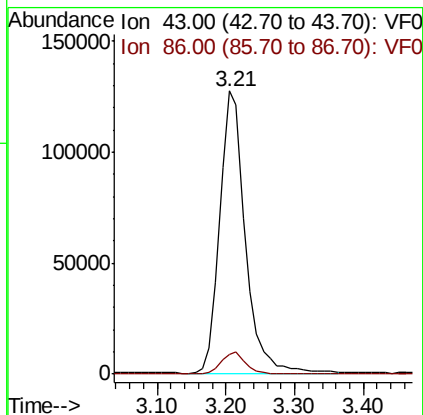
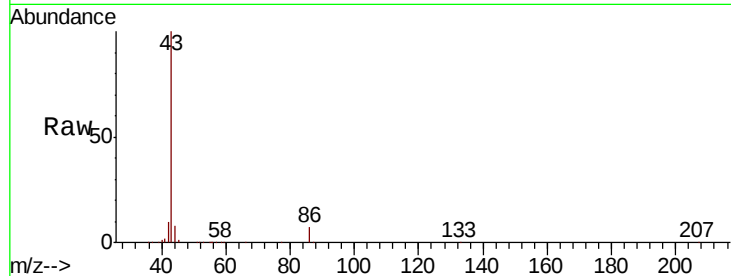
86 7.0 6.3 9.5

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#24

1,1-Dichloroethane

Concen: 21.131 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

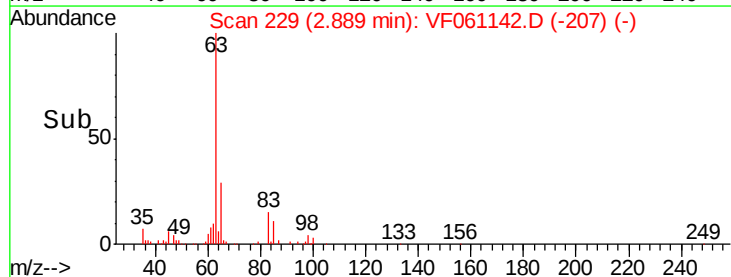
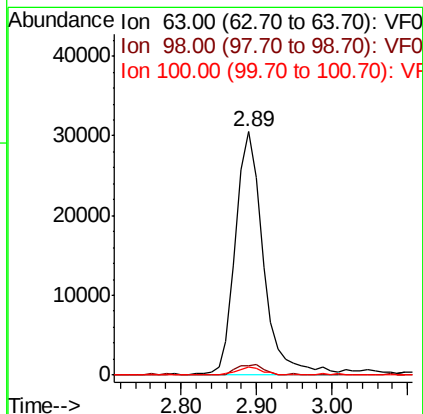
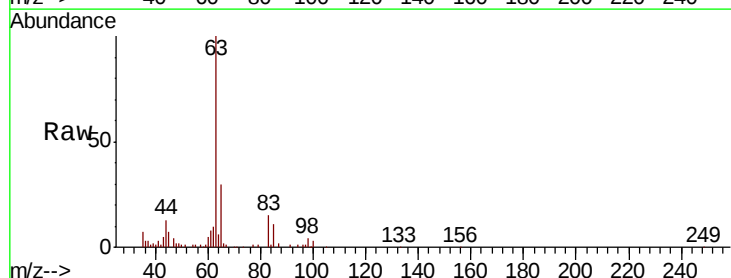
Tgt Ion: 63 Resp: 78340

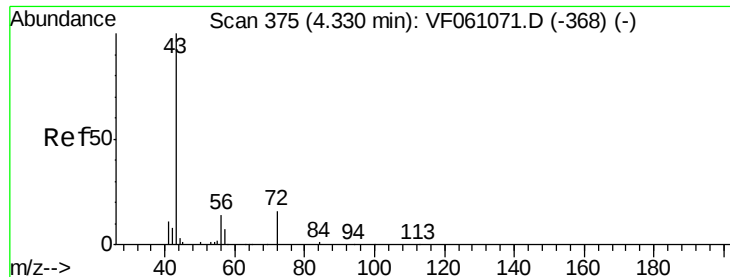
Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.5

100 3.1 1.7 5.1





#25

2-Butanone

Concen: 108.448 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.04 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 43 Resp: 92603

Ion Ratio Lower Upper

43 100

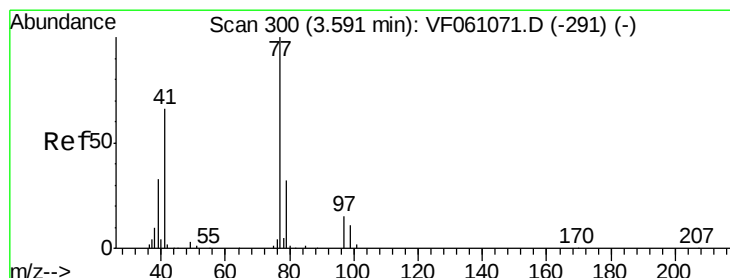
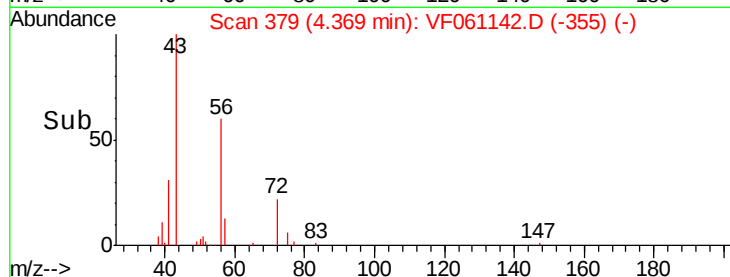
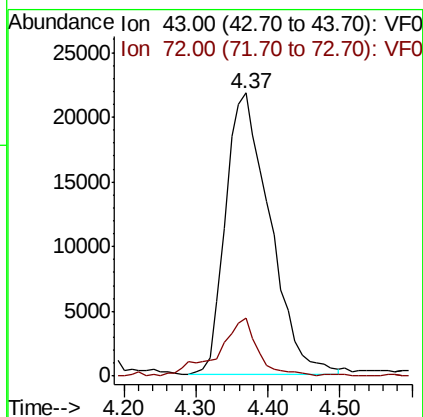
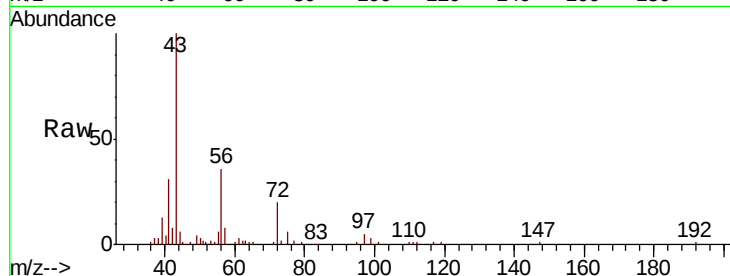
72 20.3 15.6 23.4

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#26

2,2-Dichloropropane

Concen: 20.572 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.03 min

Lab File: VF061142.D

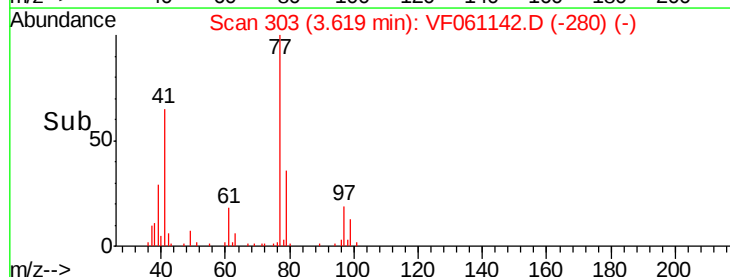
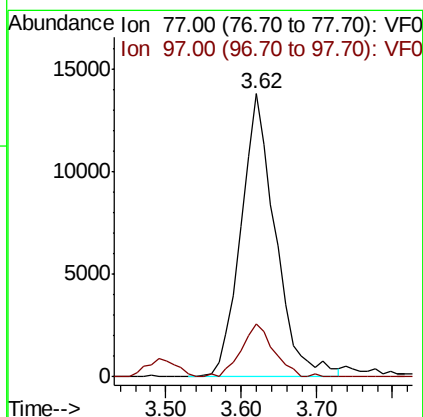
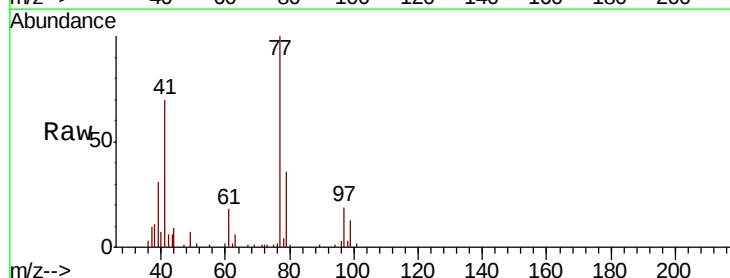
Acq: 22 Dec 2018 14:04

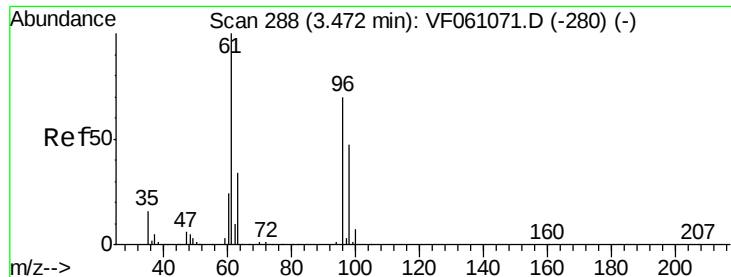
Tgt Ion: 77 Resp: 43768

Ion Ratio Lower Upper

77 100

97 18.8 8.2 24.4





#27

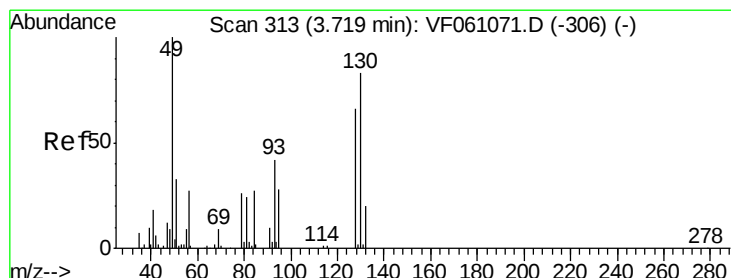
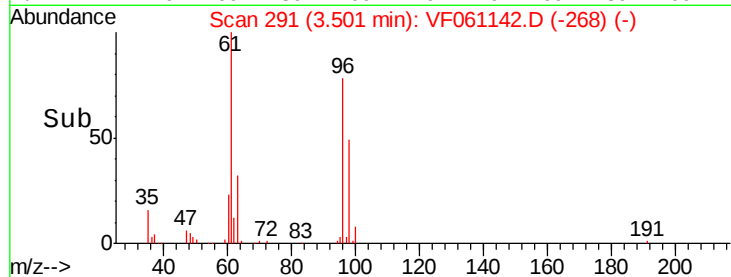
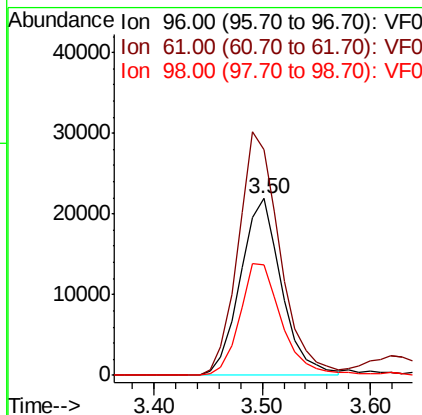
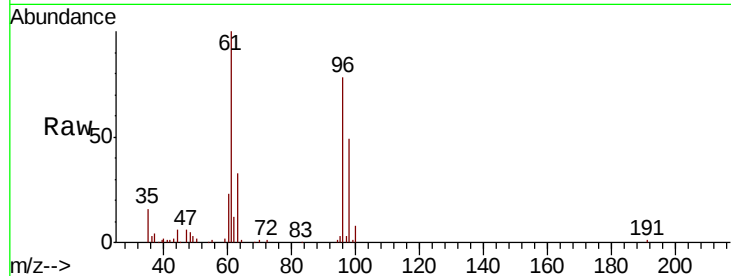
cis-1,2-Dichloroethene
Concen: 19.669 ug/l
RT: 3.50 min Scan# 291
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	58134		
61	127.9	0.0	287.8	
98	62.4	0.0	134.2	

Manual Integrations
APPROVED

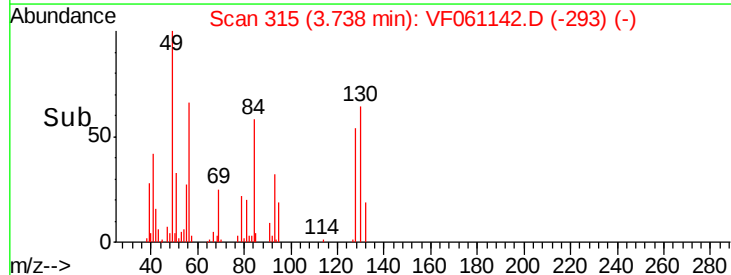
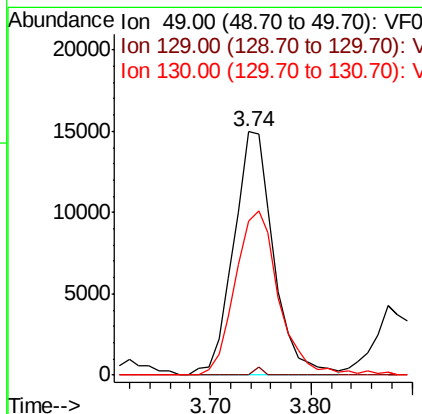
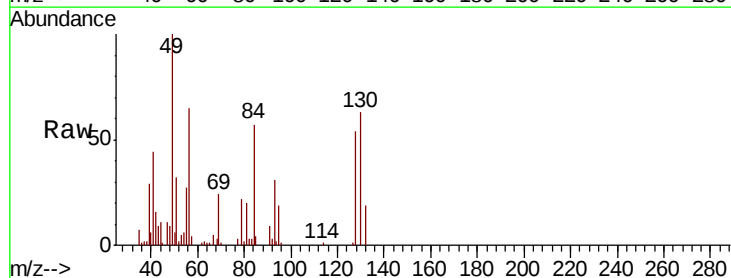
MMDadoda
12/26/2018 11:05:03 AM

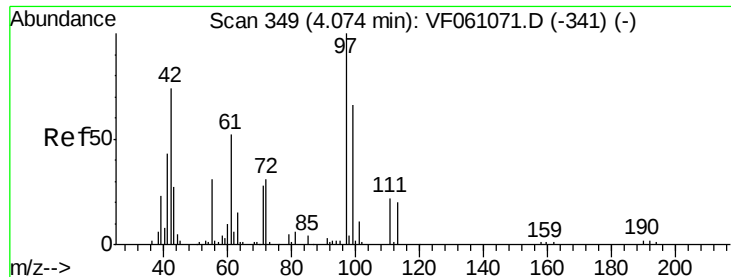


#28

Bromochloromethane
Concen: 21.968 ug/l
RT: 3.74 min Scan# 315
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	41324		
129	0.0	0.0	3.6	
130	63.2	65.8	98.6#	





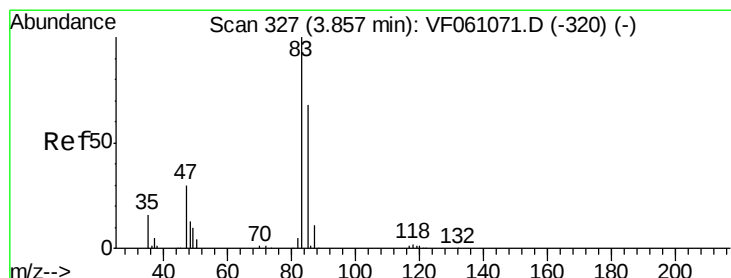
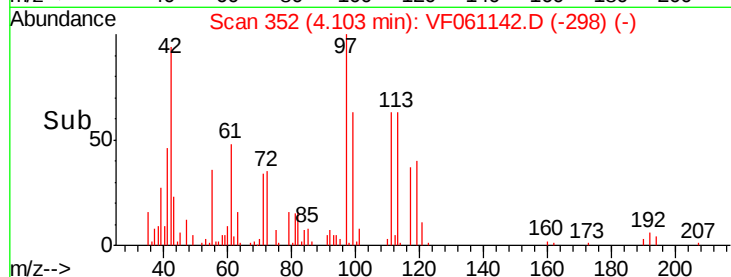
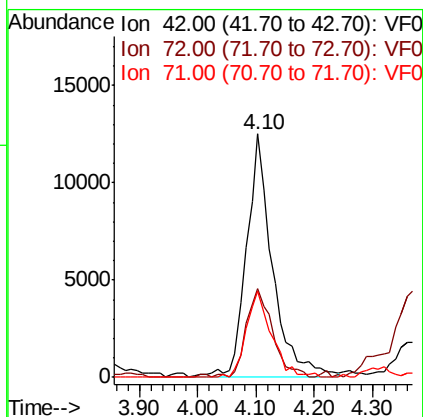
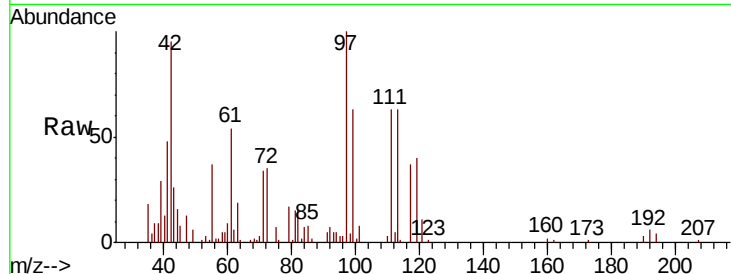
#29
Tetrahydrofuran
Concen: 112.631 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	36.4	31.8	47.8
71	34.1	29.7	44.5

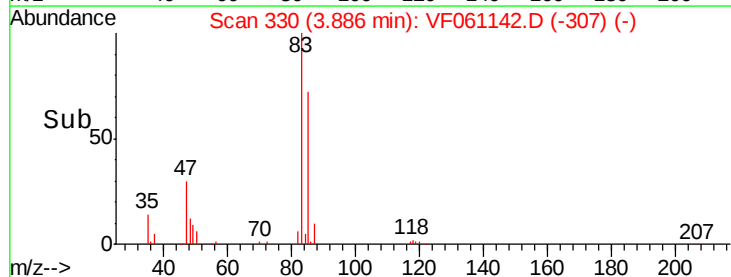
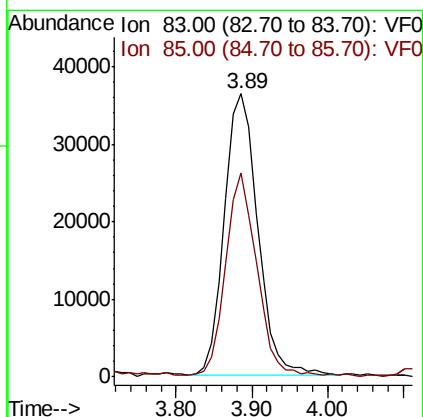
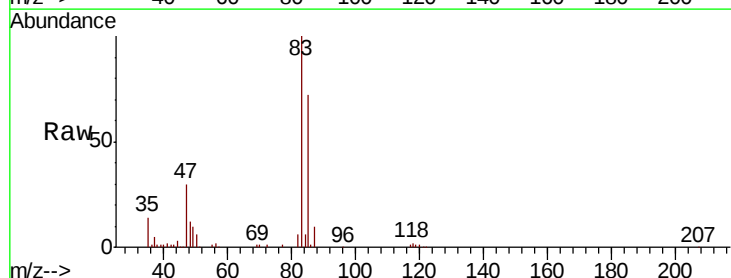
Manual Integrations
APPROVED

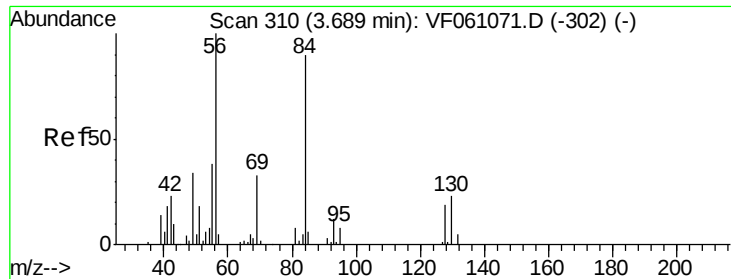
MMDadoda
12/26/2018 11:05:03 AM



#30
Chloroform
Concen: 20.013 ug/l
RT: 3.89 min Scan# 330
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	72.0	54.5	81.7





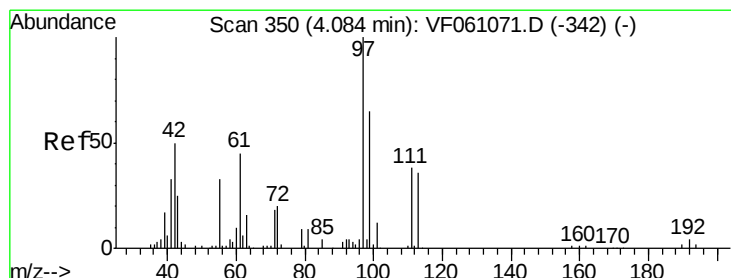
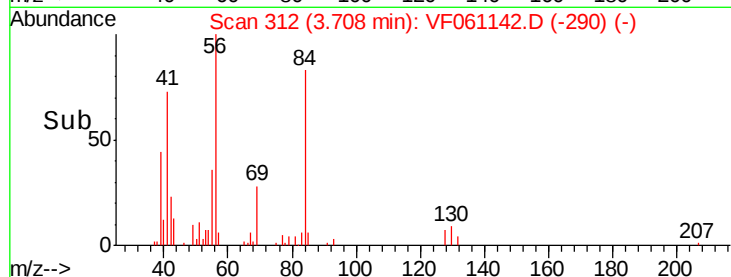
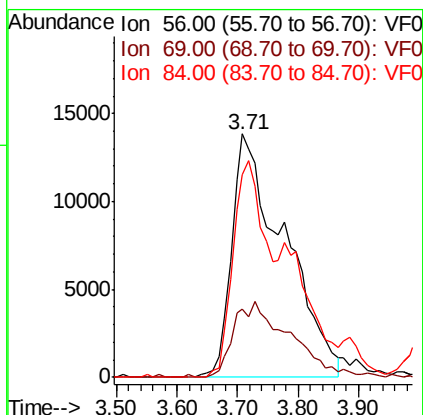
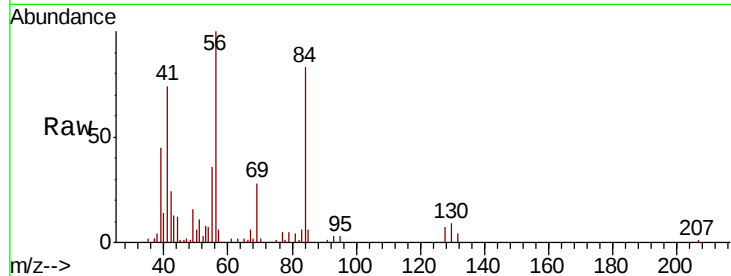
#31
Cyclohexane
Concen: 21.690 ug/l
RT: 3.71 min Scan# 312
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.1	26.0	39.0
84	83.0	71.4	107.2

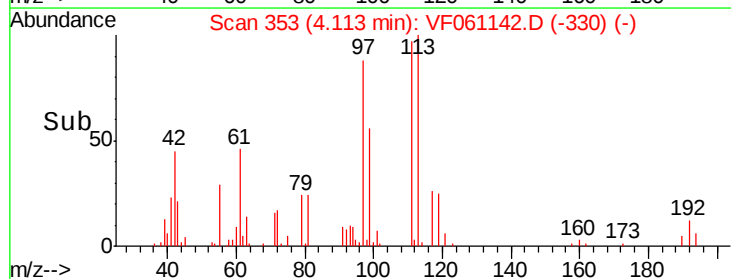
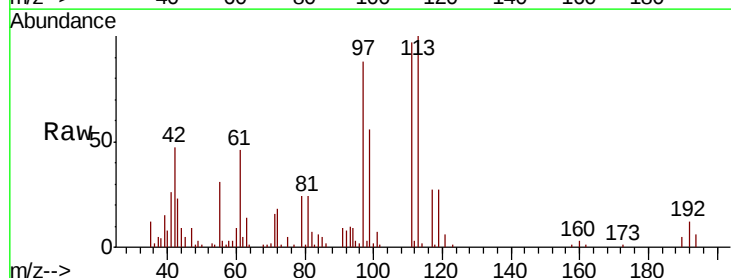
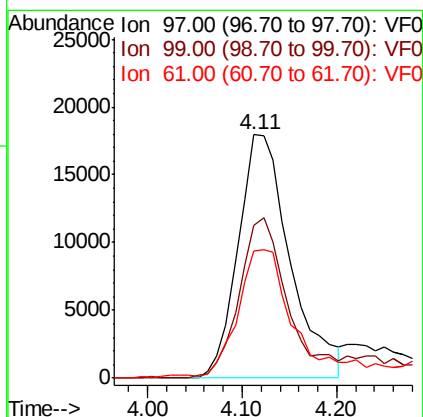
Manual Integrations
APPROVED

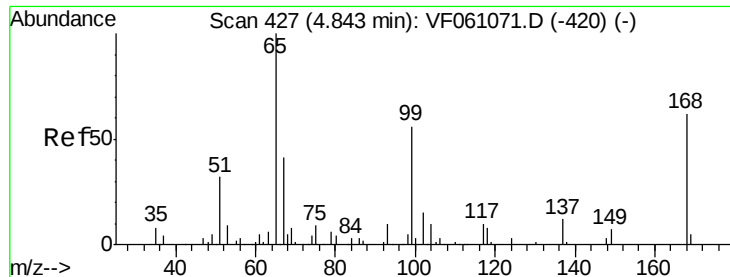
MMDadoda
12/26/2018 11:05:03 AM



#32
1,1,1-Trichloroethane
Concen: 20.670 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.6	77.4
61	52.2	36.2	54.2





#33

1,2-Dichloroethane-d4

Concen: 49.269 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 65 Resp: 129759

Ion Ratio Lower Upper

65 100

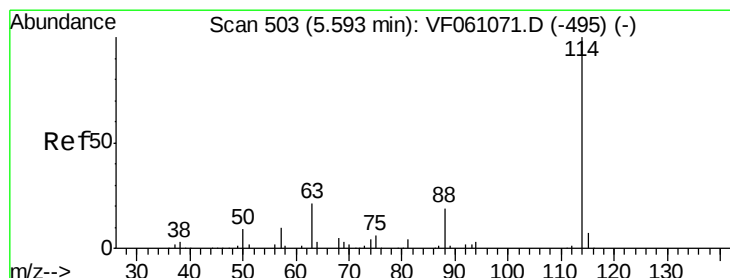
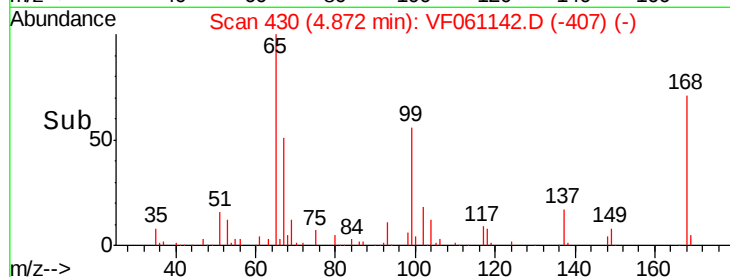
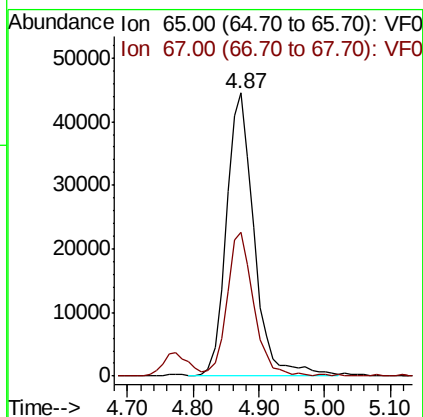
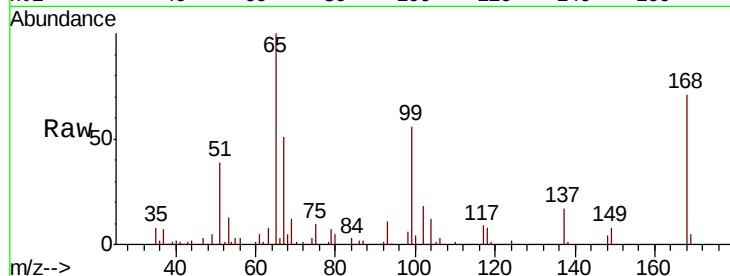
67 50.7 0.0 94.6

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

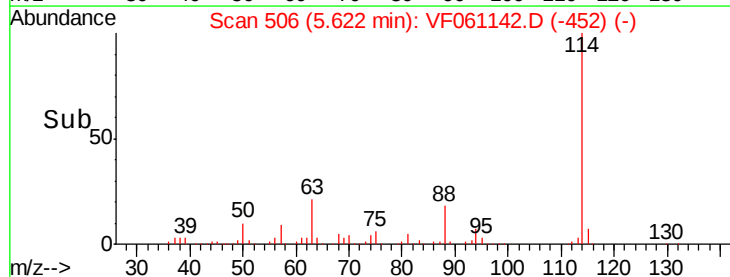
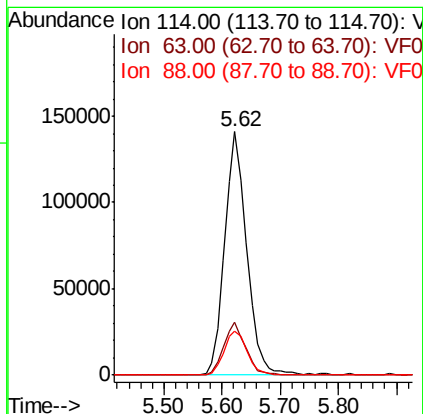
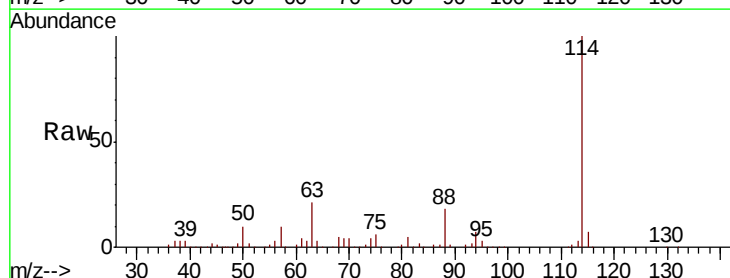
Tgt Ion: 114 Resp: 371705

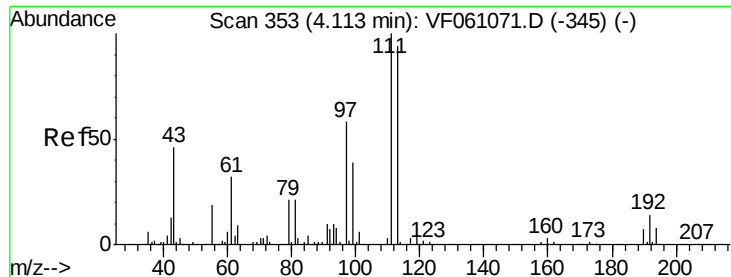
Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.6

88 18.2 0.0 38.0





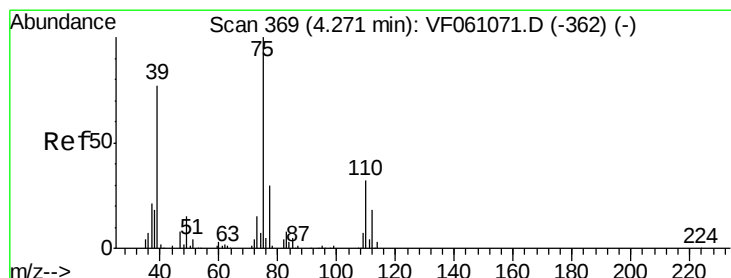
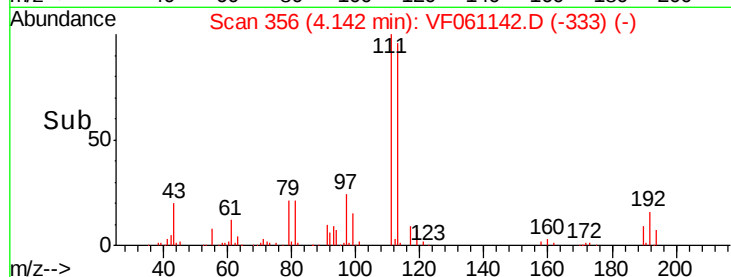
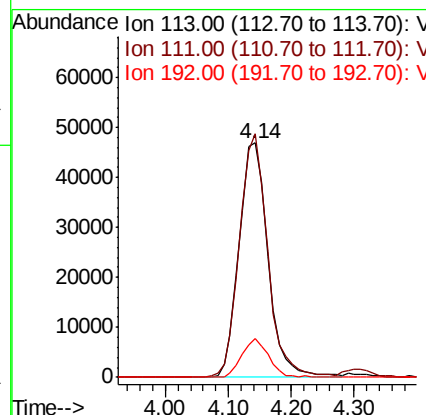
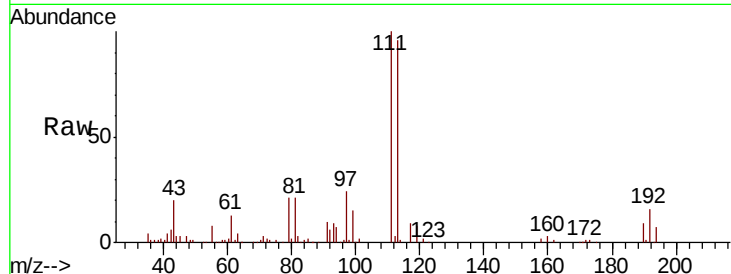
#35
 Dibromofluoromethane
 Concen: 50.305 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	149788		
111	103.8	85.2	127.8	
192	16.6	12.8	19.2	

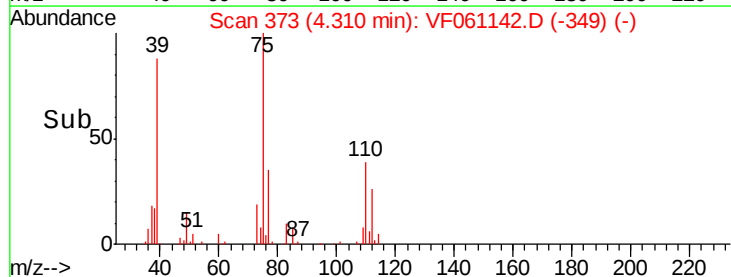
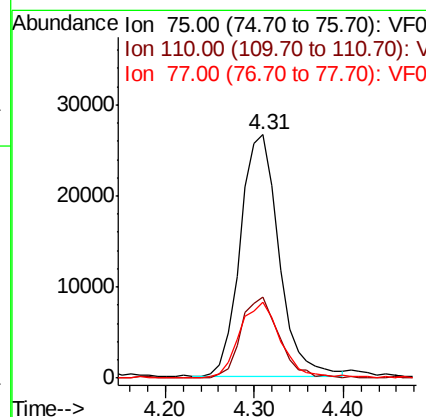
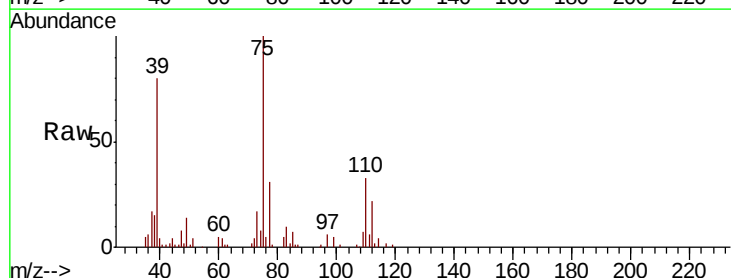
Manual Integrations
 APPROVED

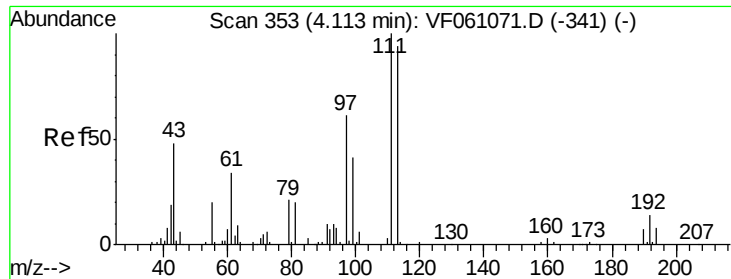
MMDadoda
 12/26/2018 11:05:03 AM



#36
 1,1-Dichloropropene
 Concen: 17.878 ug/l
 RT: 4.31 min Scan# 373
 Delta R.T. 0.04 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	80212		
110	33.4	16.1	48.2	
77	31.2	24.5	36.7	





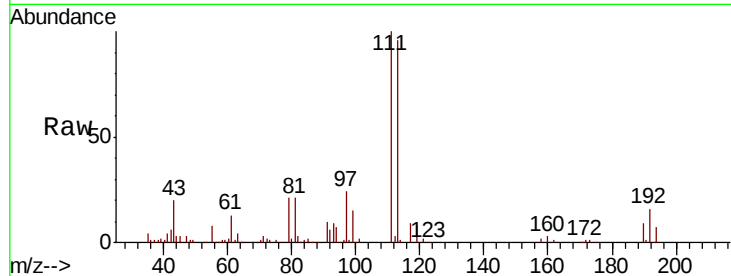
#37
Ethyl Acetate
Concen: 21.186 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	63.2	56.6	84.8
70	6.8	6.3	9.5

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM

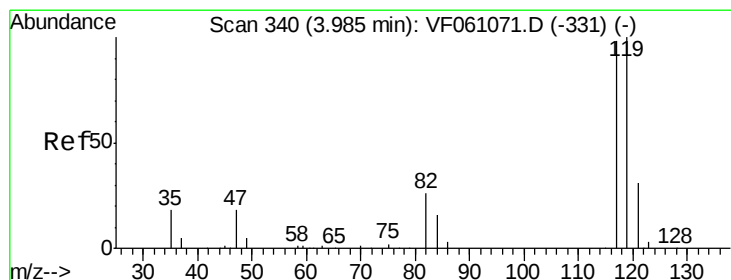
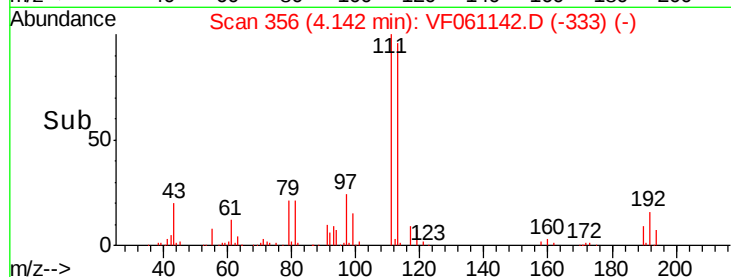
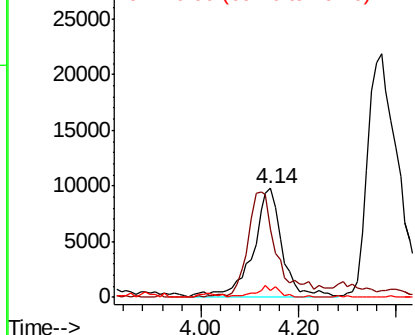


Abundance

Ion 43.00 (42.70 to 43.70): VF0

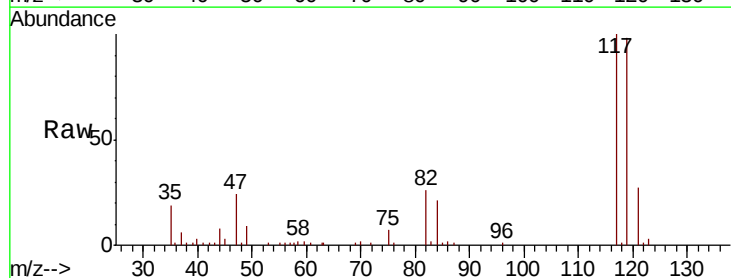
Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38
Carbon Tetrachloride
Concen: 19.651 ug/l
RT: 4.01 min Scan# 343
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.9	82.1	123.1
121	27.5	25.5	38.3

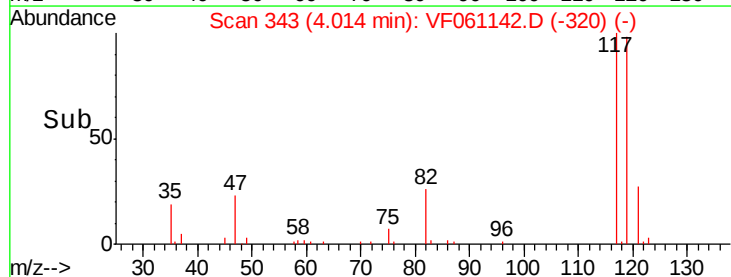
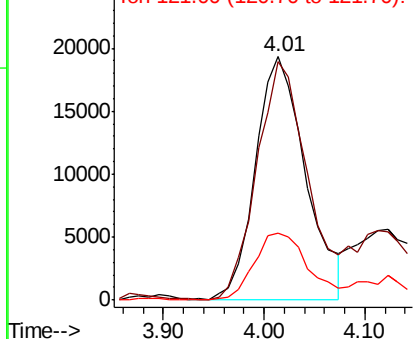


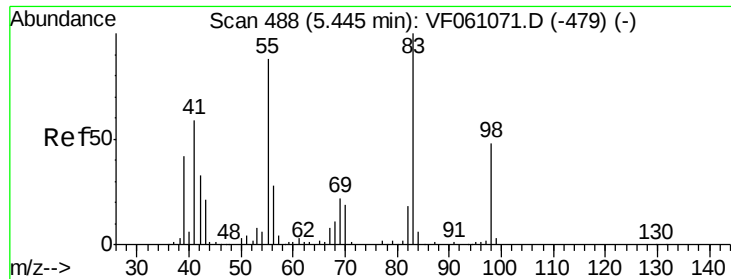
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





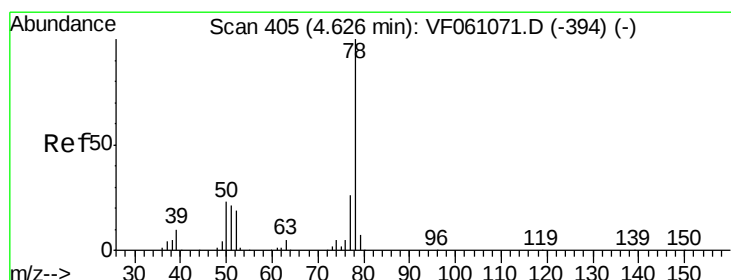
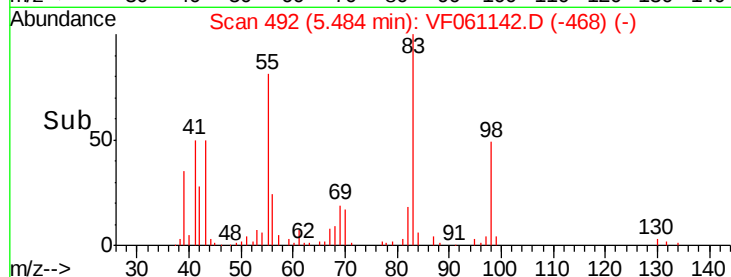
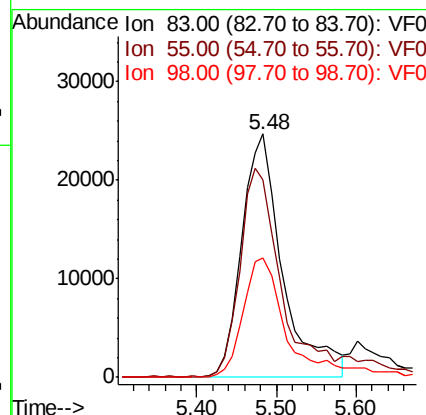
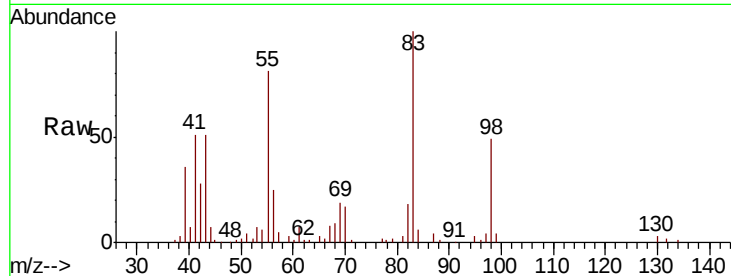
#39
Methylcyclohexane
Concen: 21.869 ug/l
RT: 5.48 min Scan# 492
Delta R.T. 0.04 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	81.3	70.6	105.8
98	48.8	38.5	57.7

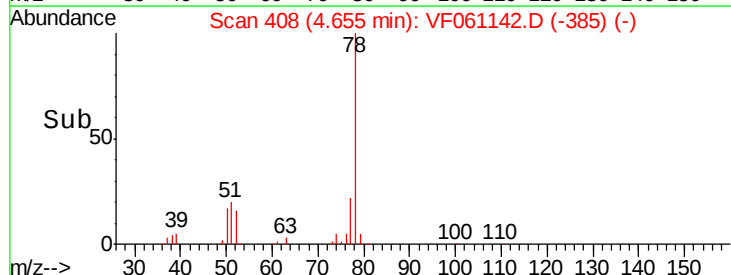
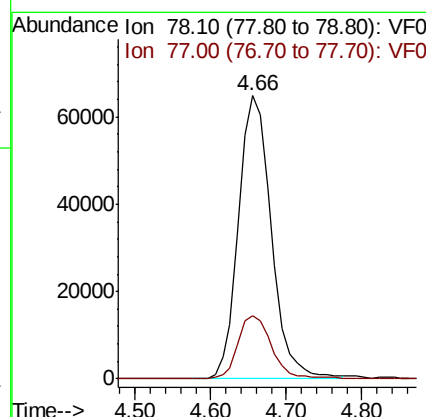
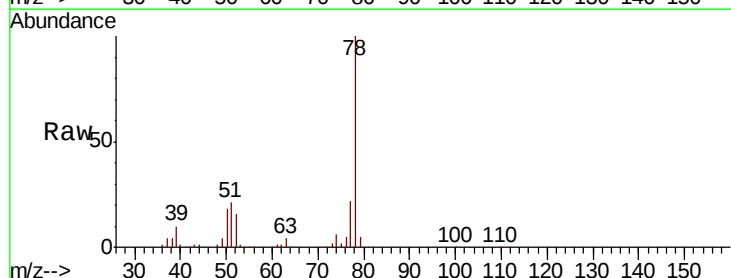
Manual Integrations
APPROVED

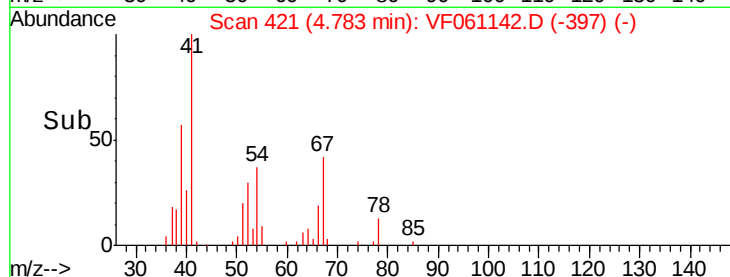
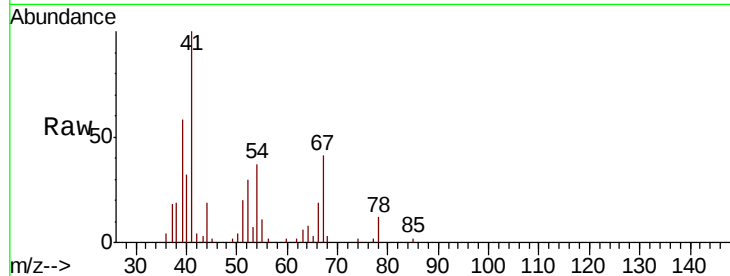
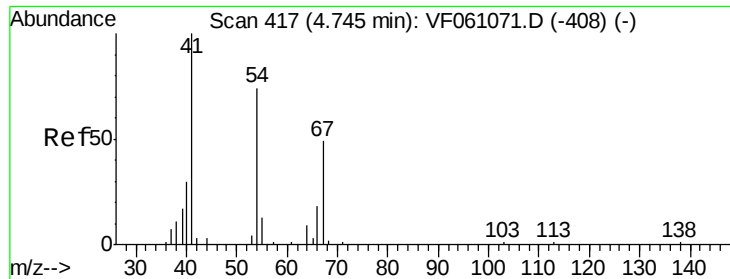
MMDadoda
12/26/2018 11:05:03 AM



#40
Benzene
Concen: 20.214 ug/l
RT: 4.66 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.3	20.7	31.1





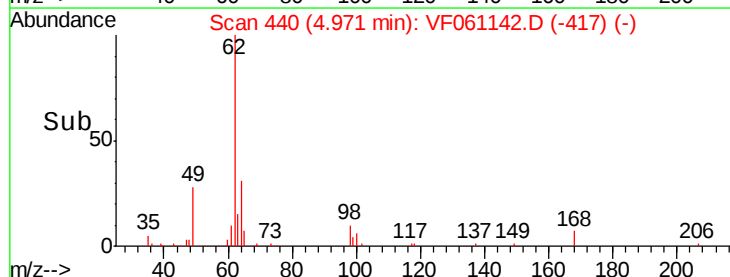
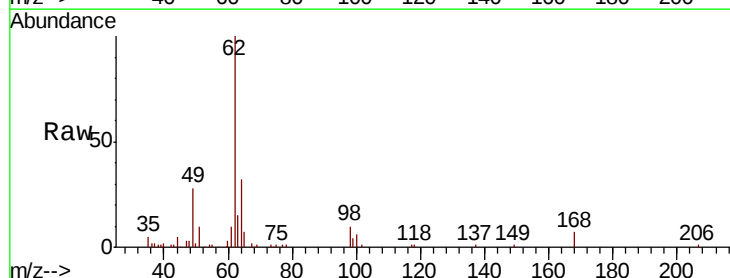
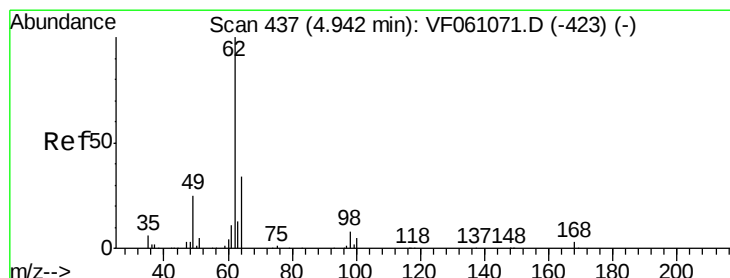
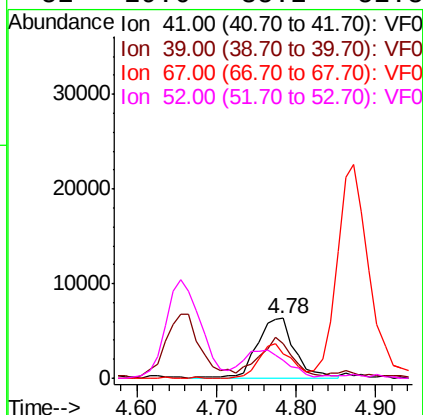
#41
Methacrylonitrile
Concen: 21.912 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.04 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	57.5	45.7	68.5
67	67	41.1	38.9	58.3
52	52	29.6	35.2	52.8

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

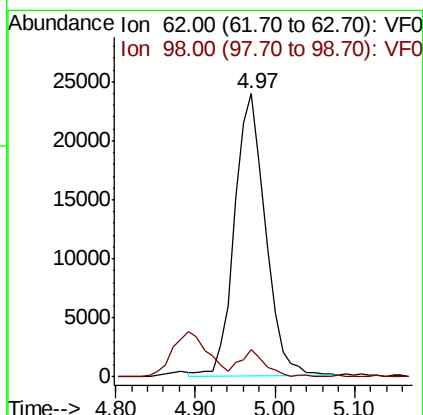
Manual Integrations
APPROVED

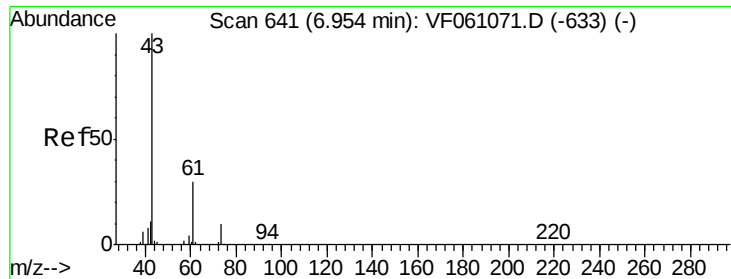
MMDadoda
12/26/2018 11:05:03 AM



#42
1,2-Dichloroethane
Concen: 17.565 ug/l
RT: 4.97 min Scan# 440
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ion	Ratio	Lower	Upper
62	62	100		
98	98	9.8	0.0	16.6





#43

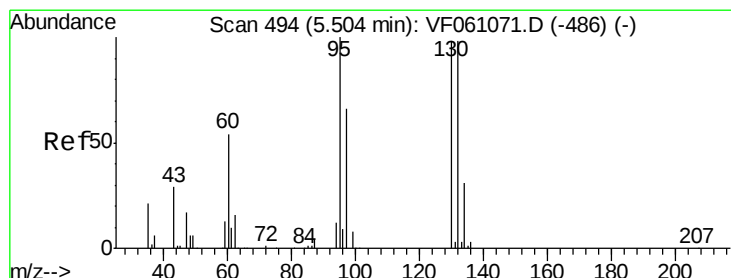
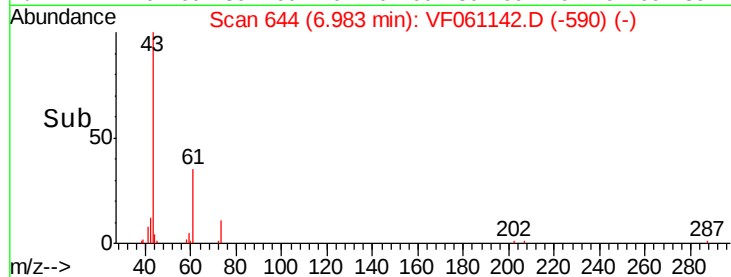
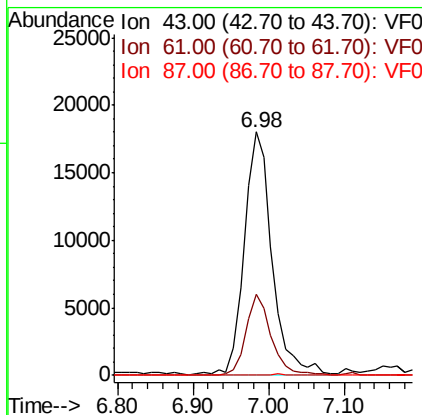
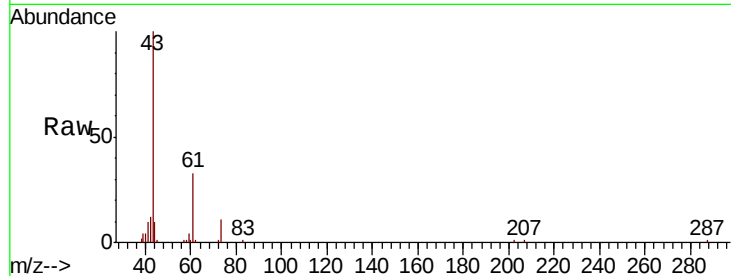
Isopropyl Acetate
 Concen: 21.340 ug/l
 RT: 6.98 min Scan# 644
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	33.1	23.8	35.8
87	0.0	0.0	0.0

Manual Integrations
 APPROVED

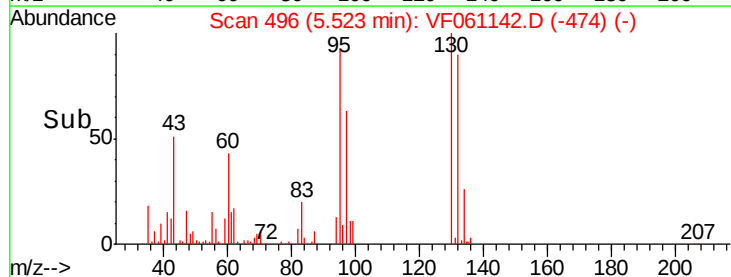
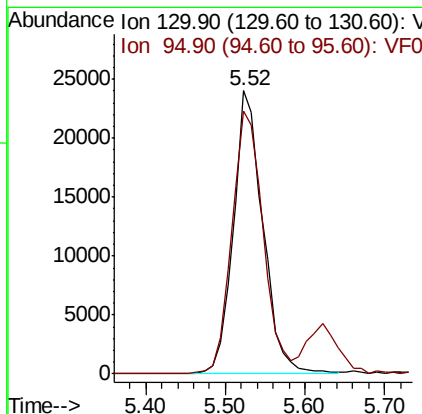
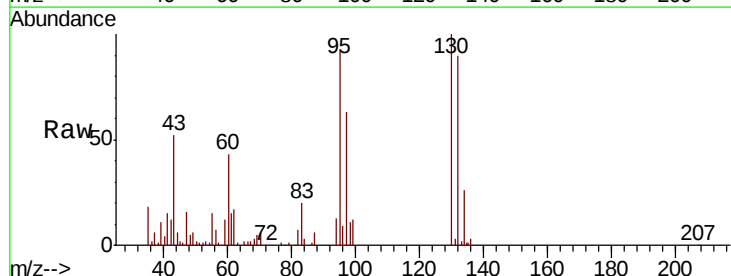
MMDadoda
 12/26/2018 11:05:03 AM

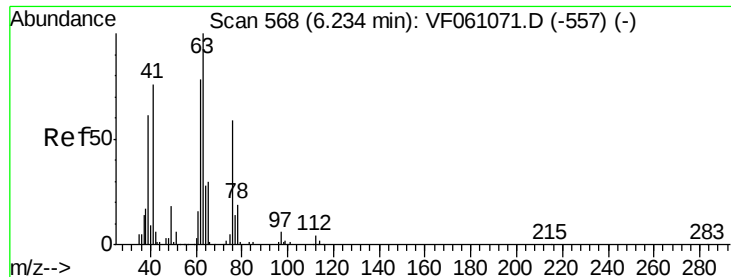


#44

Trichloroethene
 Concen: 20.346 ug/l
 RT: 5.52 min Scan# 496
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.1	0.0	205.2





#45

1,2-Dichloropropane

Concen: 19.573 ug/l

RT: 6.26 min Scan# 571

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 63 Resp: 51382

Ion Ratio Lower Upper

63 100

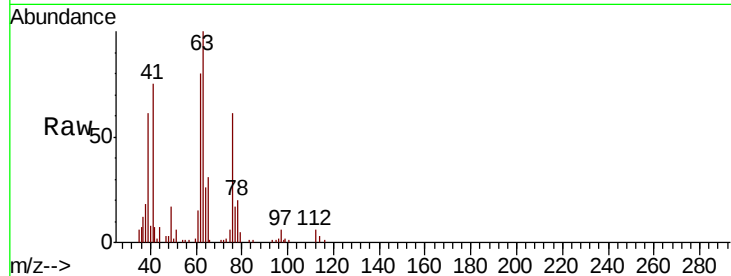
65 31.3 24.4 36.6

Manual Integrations

APPROVED

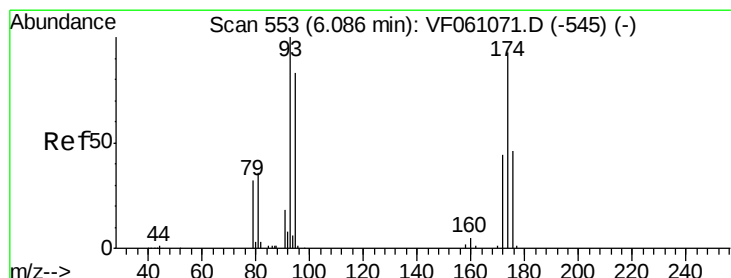
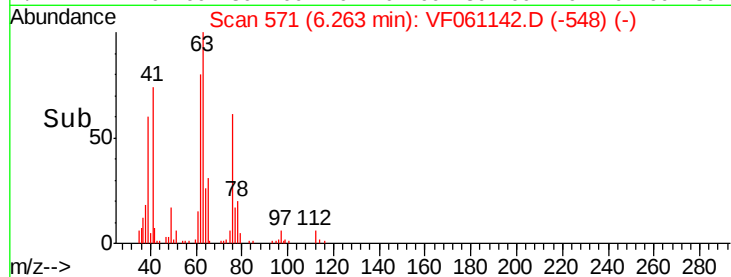
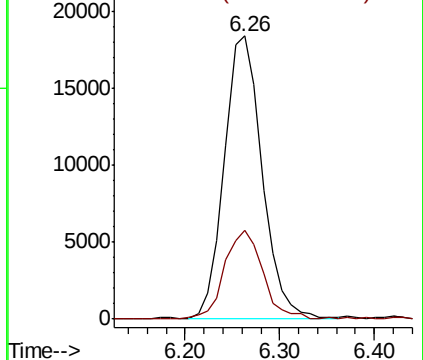
MMDadoda

12/26/2018 11:05:03 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 19.131 ug/l

RT: 6.12 min Scan# 556

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

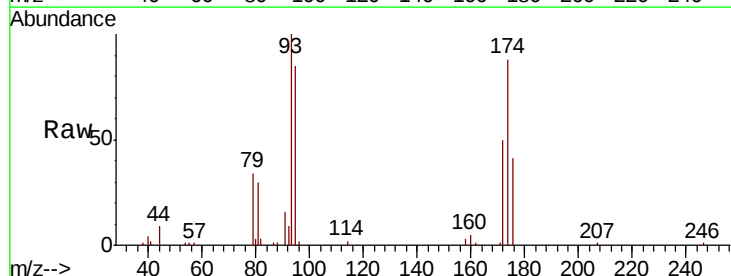
Tgt Ion: 93 Resp: 32573

Ion Ratio Lower Upper

93 100

95 84.7 66.9 100.3

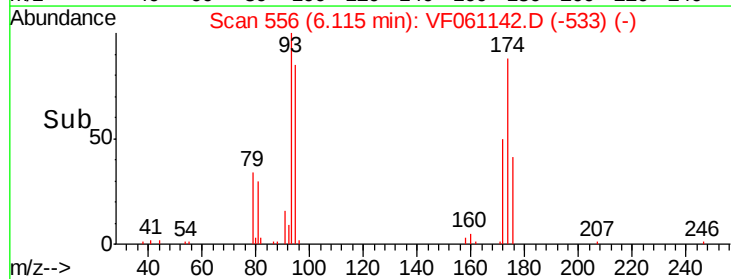
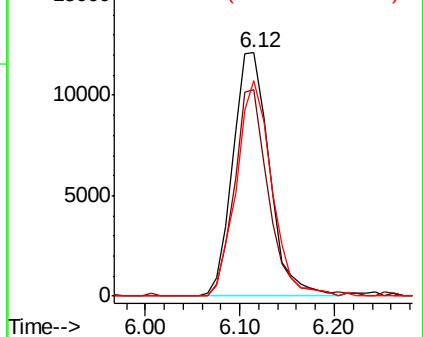
174 88.4 74.1 111.1

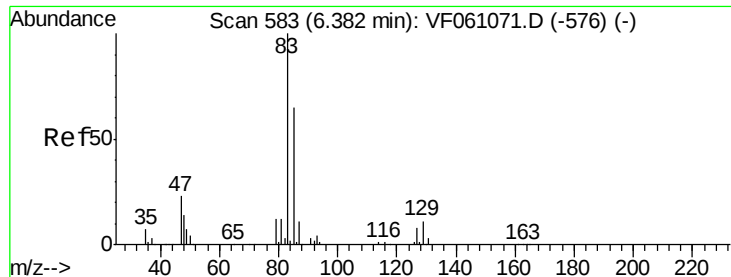


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 19.014 ug/l

RT: 6.41 min Scan# 586

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

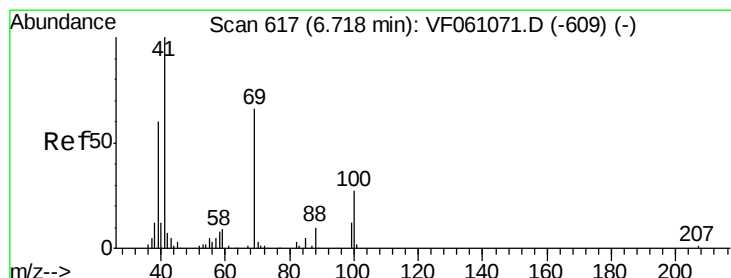
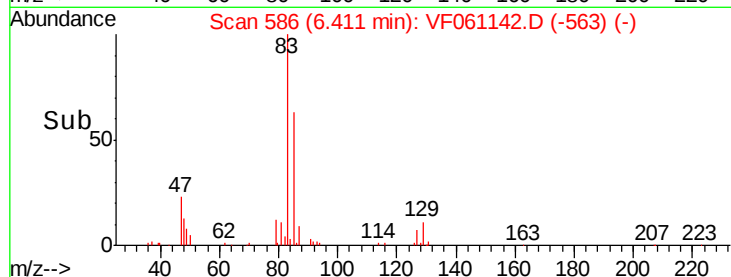
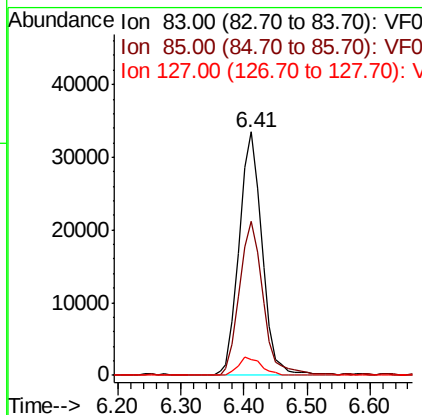
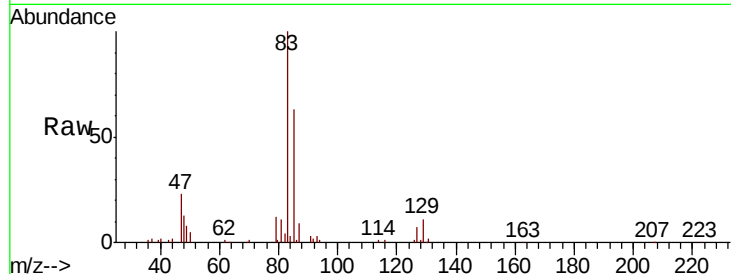
ClientSampleId :

VF1222SBS01

Tgt Ion:	83	Resp:	84116
Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.2	78.4
127	6.6	6.1	9.1

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM



#48

Methyl methacrylate

Concen: 19.056 ug/l

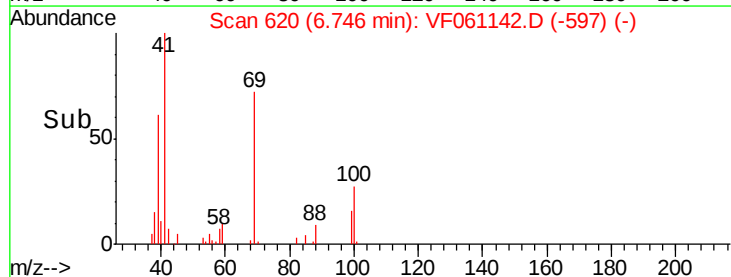
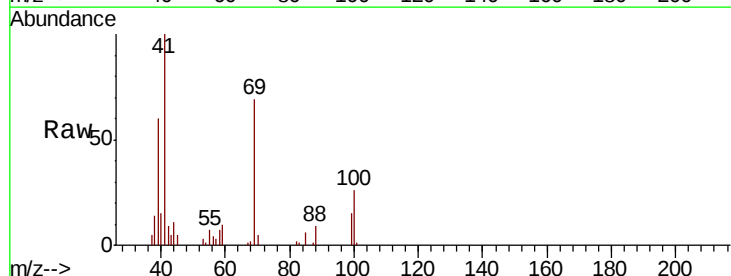
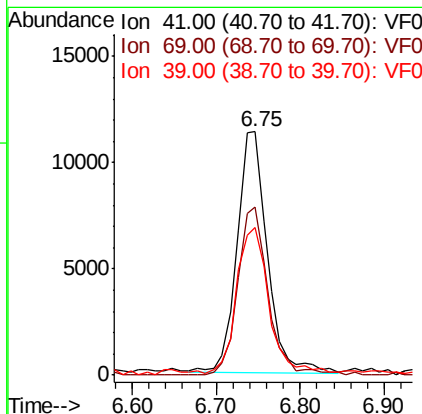
RT: 6.75 min Scan# 620

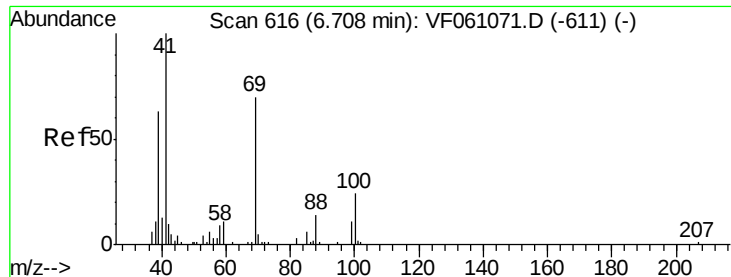
Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion:	41	Resp:	28820
Ion	Ratio	Lower	Upper
41	100		
69	68.8	52.7	79.1
39	60.5	47.8	71.6





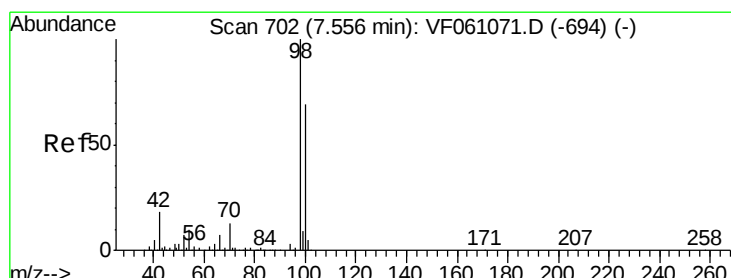
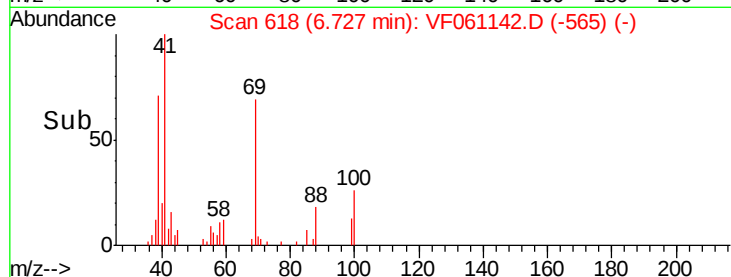
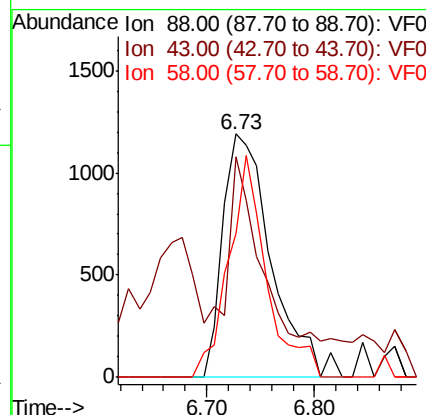
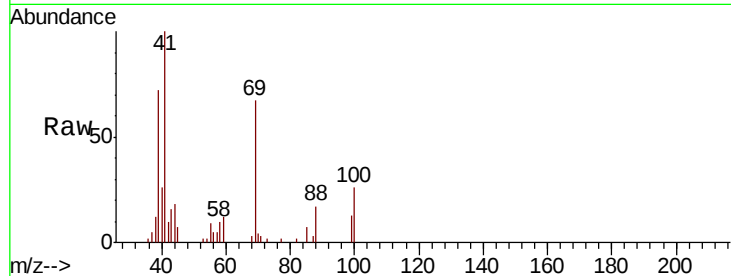
#49
1,4-Dioxane
Concen: 339.169 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion: 88 Resp: 3722
Ion Ratio Lower Upper
88 100
43 90.5 33.3 49.9#
58 59.2 53.2 79.8

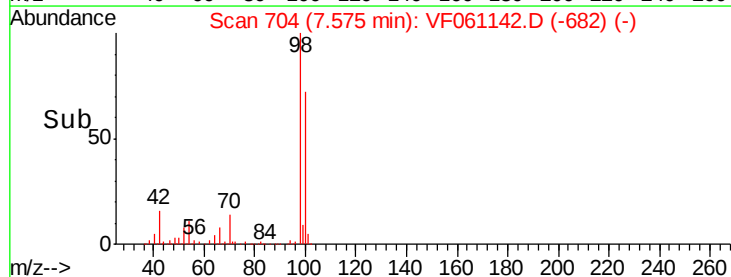
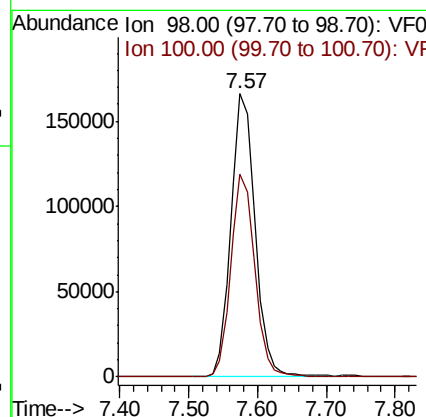
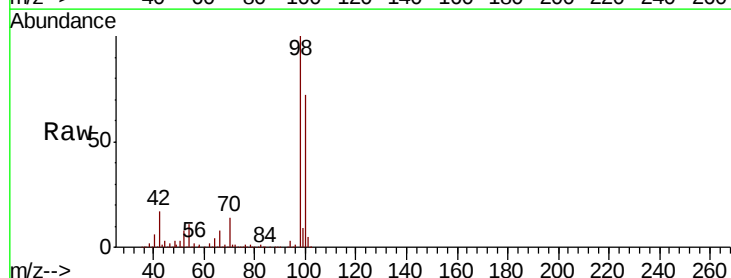
Manual Integrations
APPROVED

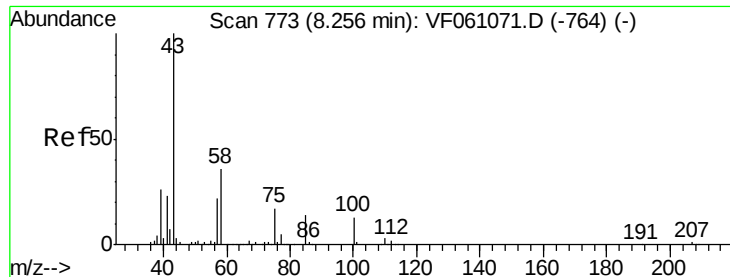
MMDadoda
12/26/2018 11:05:03 AM



#50
Toluene-d8
Concen: 48.173 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 98 Resp: 406489
Ion Ratio Lower Upper
98 100
100 71.5 55.3 82.9





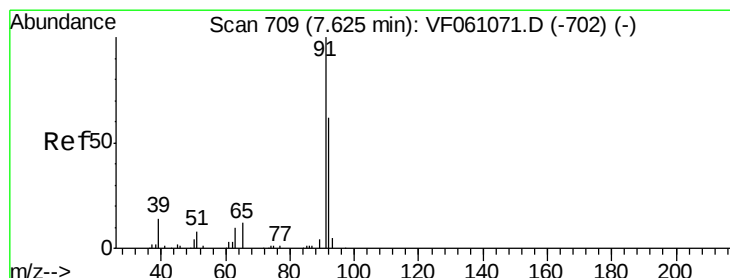
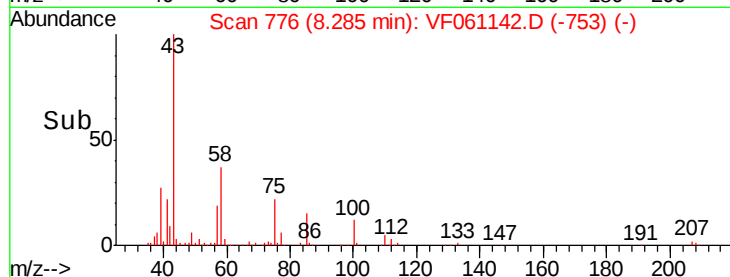
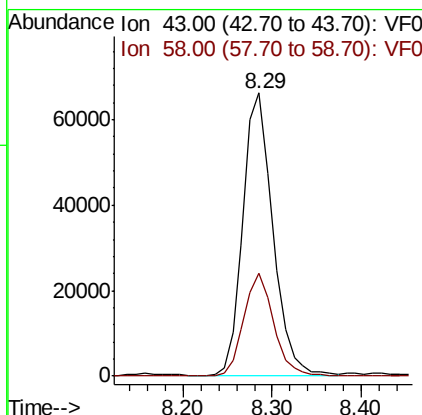
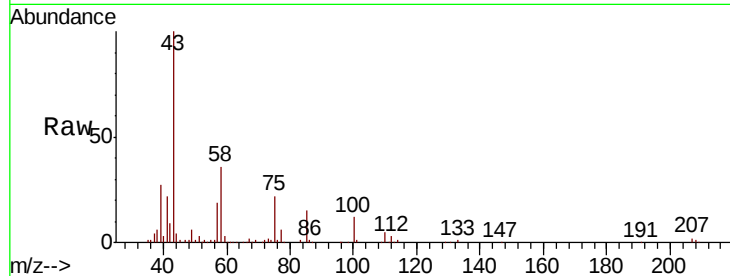
#51
 4-Methyl-2-Pentanone
 Concen: 103.784 ug/l
 RT: 8.29 min Scan# 776
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion: 43 Resp: 154200
 Ion Ratio Lower Upper
 43 100
 58 36.5 29.1 43.7

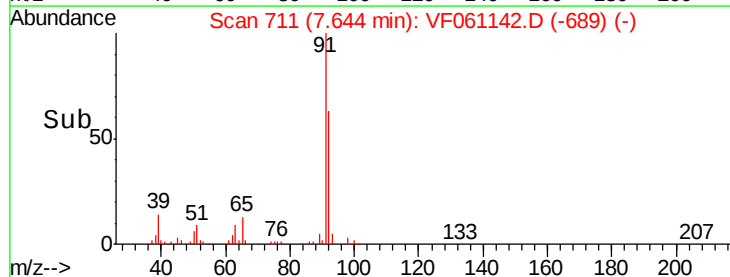
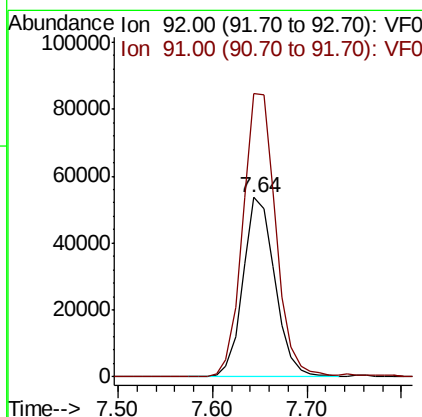
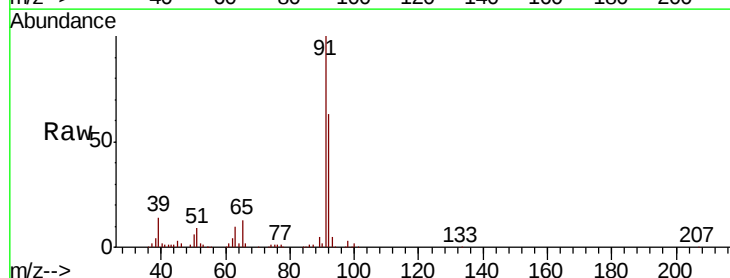
Manual Integrations
 APPROVED

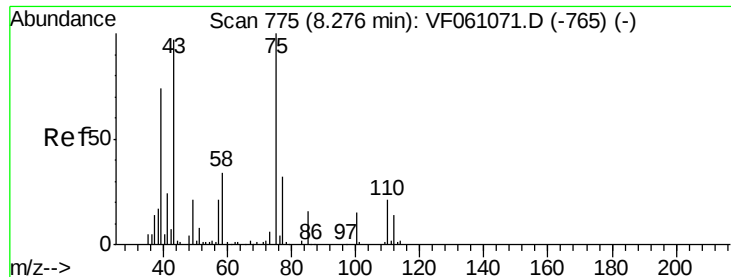
MMDadoda
 12/26/2018 11:05:03 AM



#52
 Toluene
 Concen: 19.592 ug/l
 RT: 7.64 min Scan# 711
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion: 92 Resp: 125136
 Ion Ratio Lower Upper
 92 100
 91 157.6 128.8 193.2





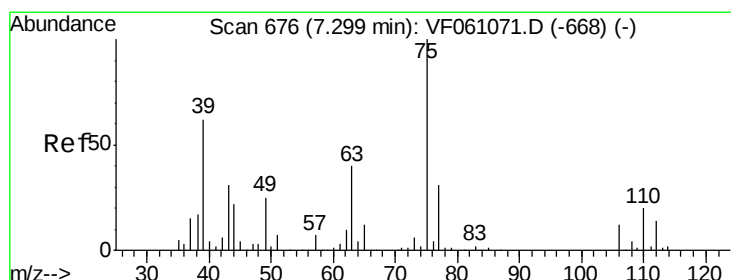
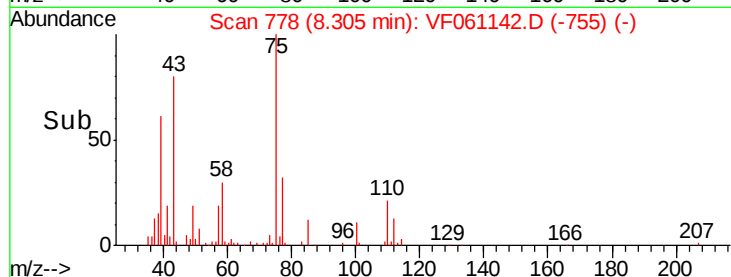
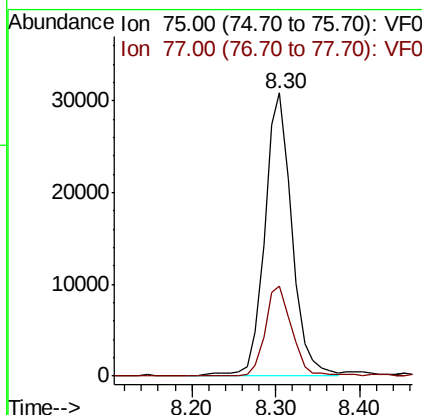
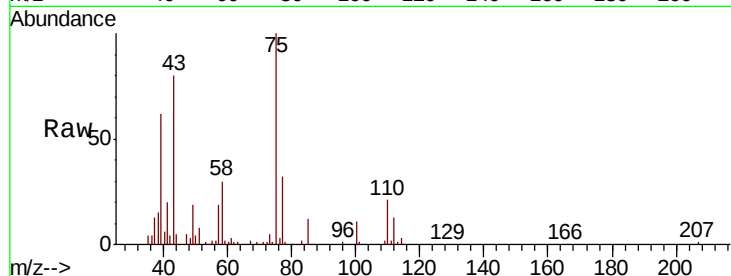
#53
 t-1,3-Dichloropropene
 Concen: 19.668 ug/l
 RT: 8.30 min Scan# 778
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion: 75 Resp: 70191
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.8 38.8

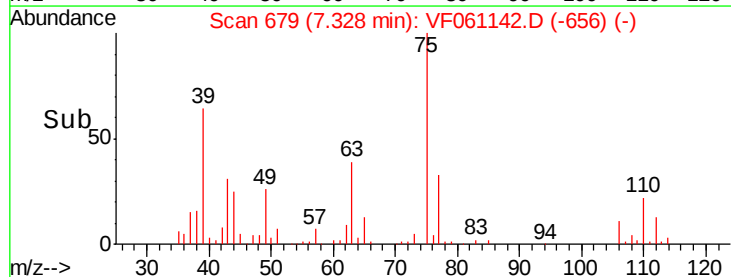
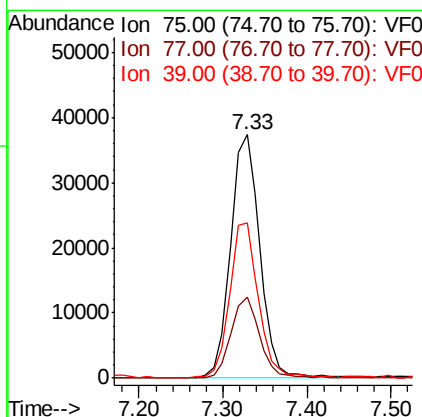
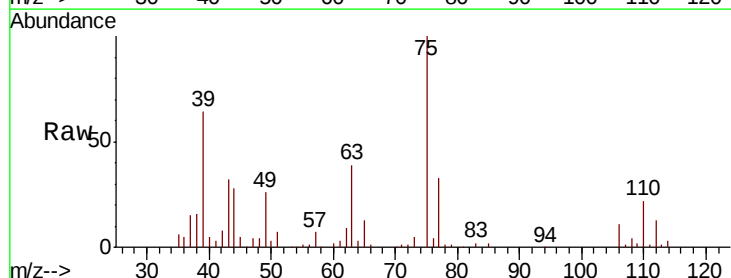
Manual Integrations
 APPROVED

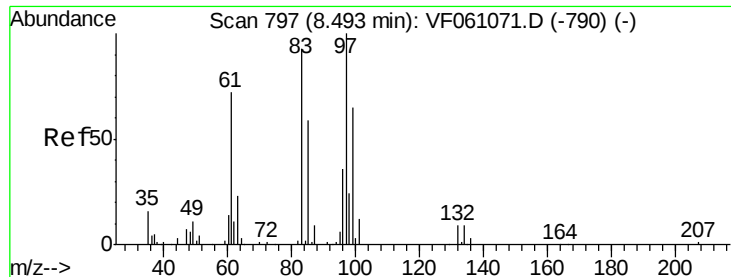
MMDadoda
 12/26/2018 11:05:03 AM



#54
 cis-1,3-Dichloropropene
 Concen: 20.140 ug/l
 RT: 7.33 min Scan# 679
 Delta R.T. 0.03 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion: 75 Resp: 90207
 Ion Ratio Lower Upper
 75 100
 77 33.5 25.0 37.4
 39 63.9 50.1 75.1





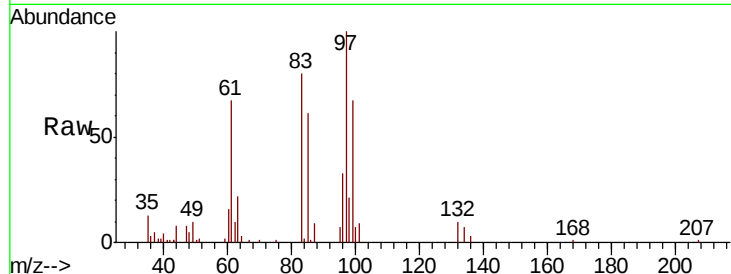
#55
 1,1,2-Trichloroethane
 Concen: 19.752 ug/l
 RT: 8.51 min Scan# 799
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion:	97	Resp:	37819
Ion	Ratio	Lower	Upper
97	100		
83	80.4	75.0	112.4
85	61.2	47.5	71.3
99	67.2	51.9	77.9

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 11:05:03 AM



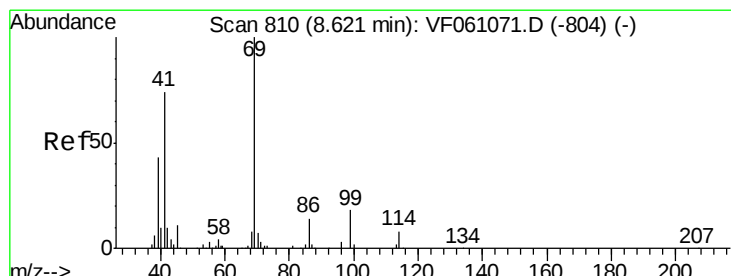
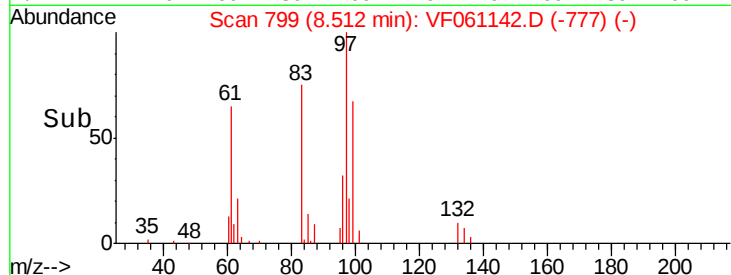
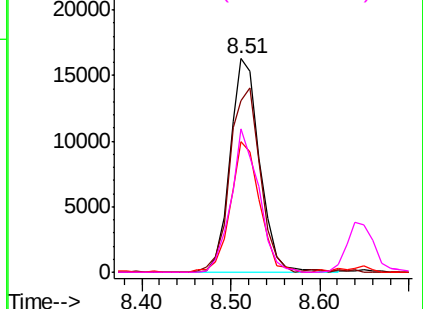
Abundance

Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

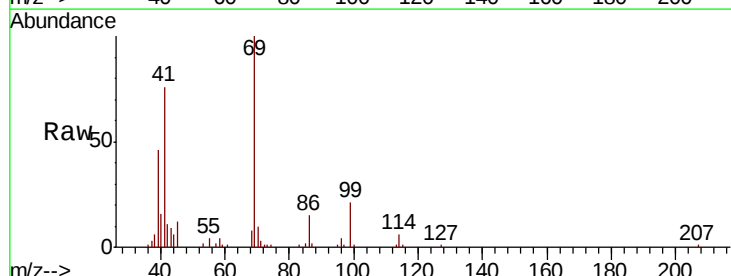
Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56
 Ethyl methacrylate
 Concen: 20.225 ug/l
 RT: 8.64 min Scan# 812
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion:	69	Resp:	41903
Ion	Ratio	Lower	Upper
69	100		
41	75.9	59.7	89.5
39	46.4	35.0	52.6

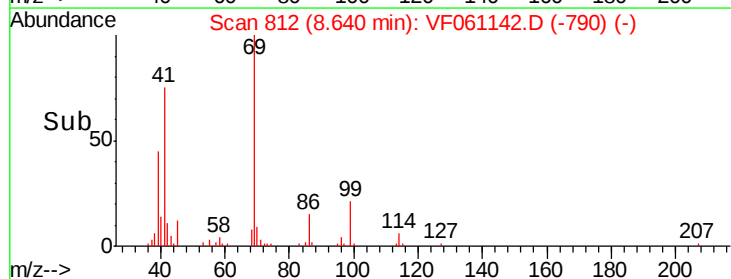
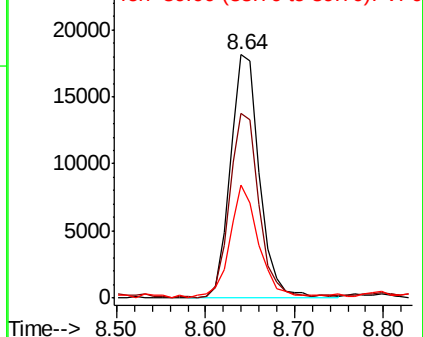


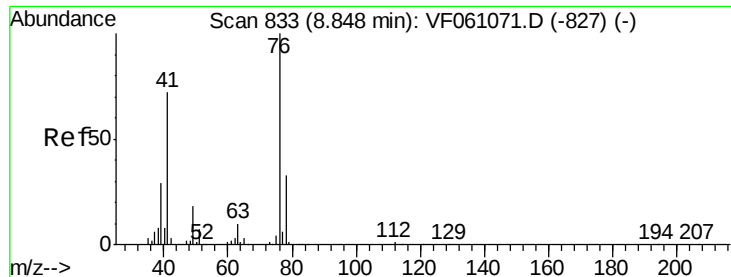
Abundance

Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 19.251 ug/l

RT: 8.88 min Scan# 836

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 76 Resp: 66666

Ion Ratio Lower Upper

76 100

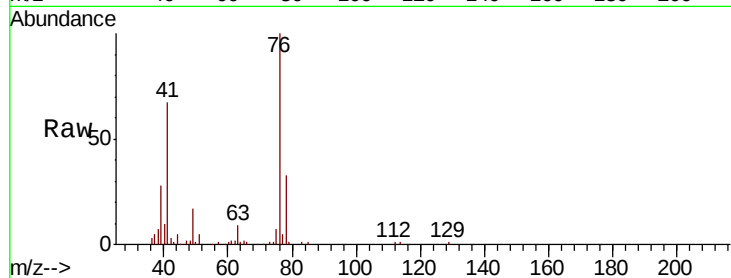
78 32.7 26.5 39.7

Manual Integrations

APPROVED

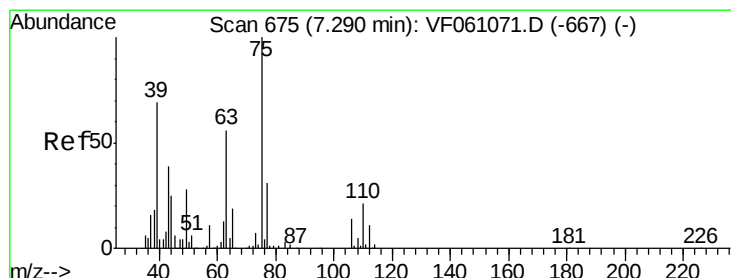
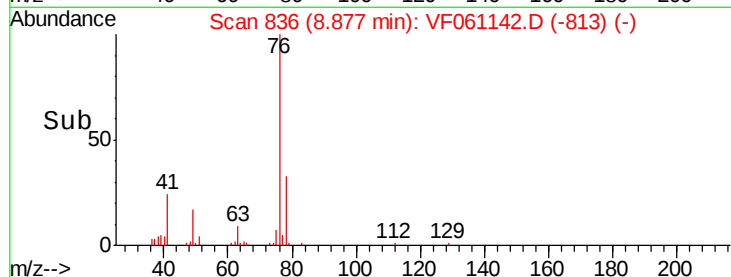
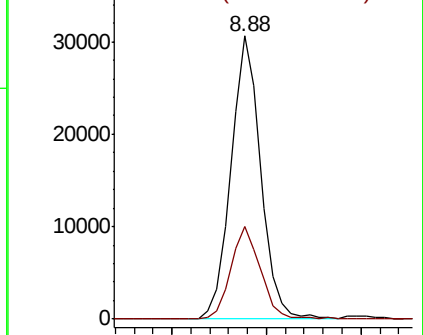
MMDadoda

12/26/2018 11:05:03 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 107.773 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.03 min

Lab File: VF061142.D

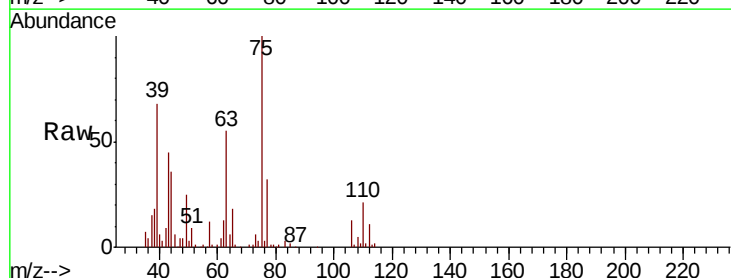
Acq: 22 Dec 2018 14:04

Tgt Ion: 63 Resp: 42885

Ion Ratio Lower Upper

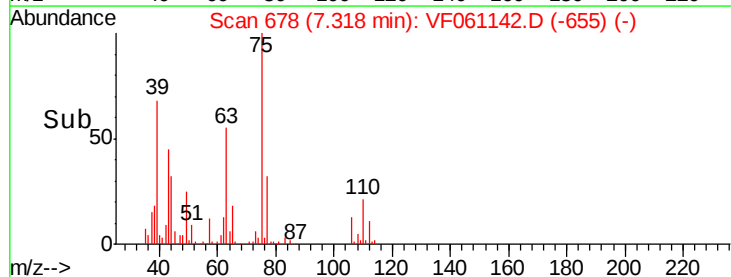
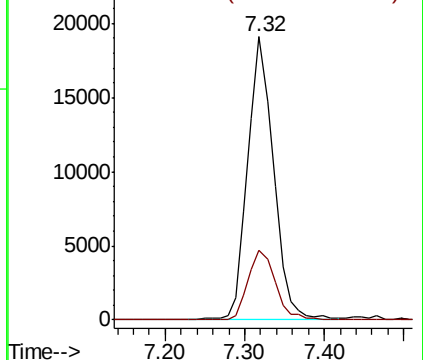
63 100

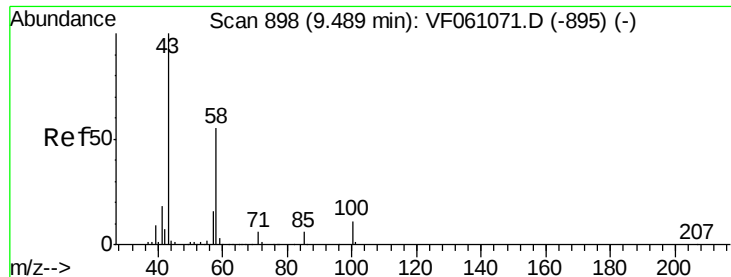
106 24.4 19.8 29.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





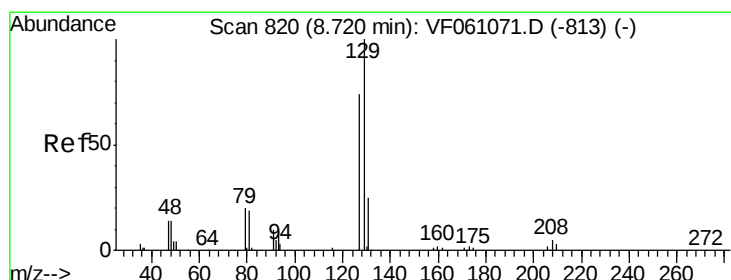
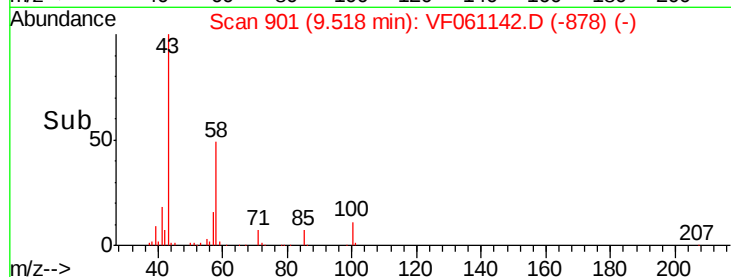
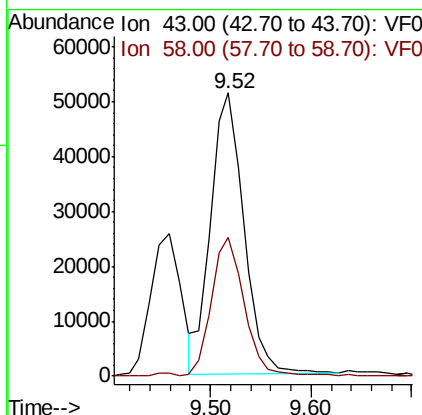
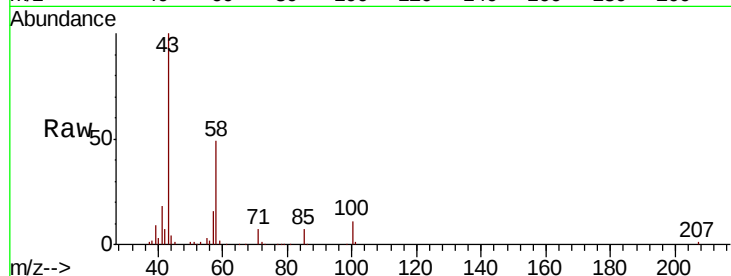
#59
2-Hexanone
Concen: 109.363 ug/l
RT: 9.52 min Scan# 901
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion: 43 Resp: 117509
Ion Ratio Lower Upper
43 100
58 49.1 25.1 75.2

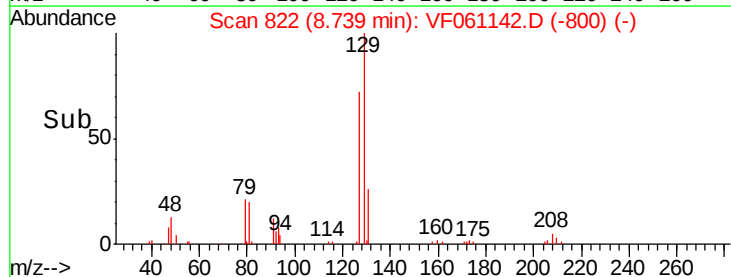
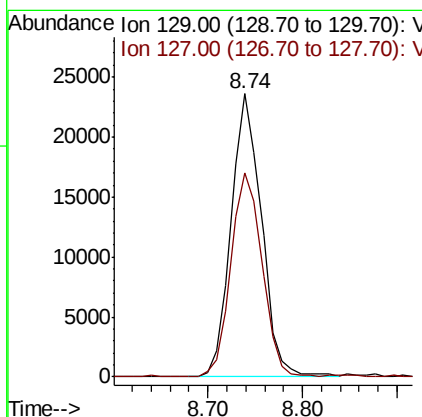
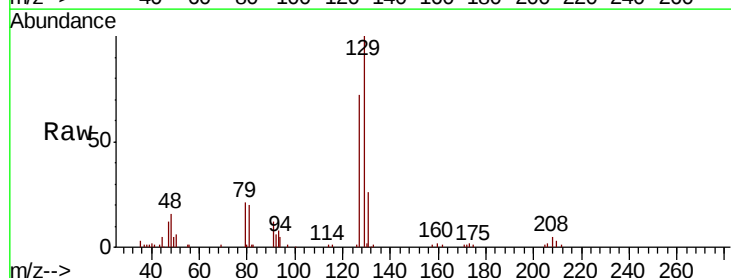
Manual Integrations
APPROVED

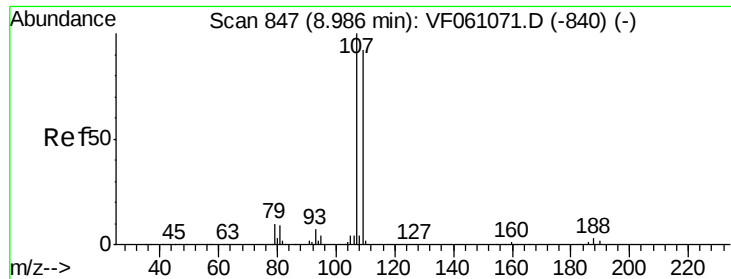
MMDadoda
12/26/2018 11:05:03 AM



#60
Dibromochloromethane
Concen: 19.155 ug/l
RT: 8.74 min Scan# 822
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion: 129 Resp: 52574
Ion Ratio Lower Upper
129 100
127 72.1 36.8 110.3





#61

1,2-Dibromoethane

Concen: 19.527 ug/l

RT: 9.02 min Scan# 850

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 107 Resp: 39930

Ion Ratio Lower Upper

107 100

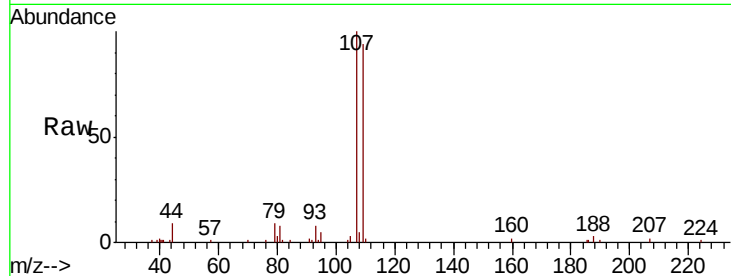
109 93.8 73.7 110.5

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

20000

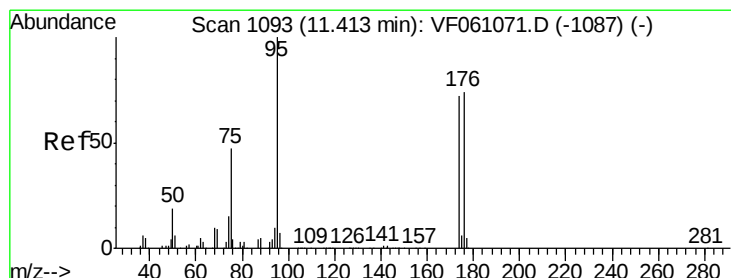
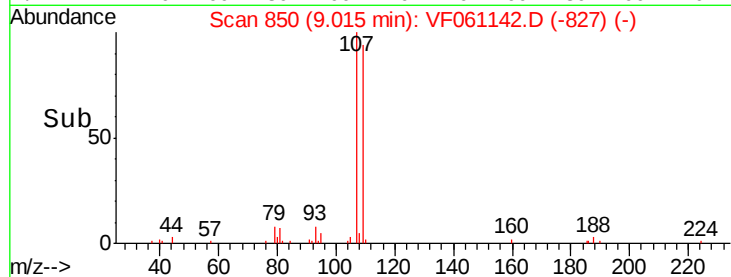
15000

10000

5000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.372 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

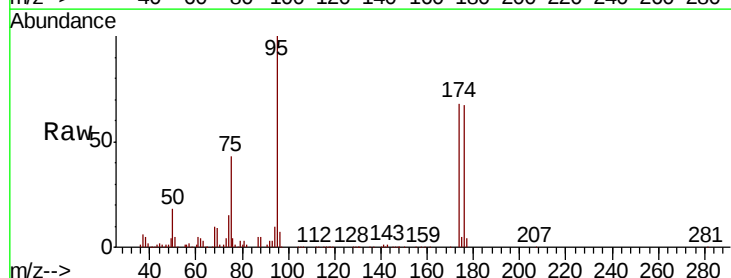
Tgt Ion: 95 Resp: 195951

Ion Ratio Lower Upper

95 100

174 68.2 0.0 143.8

176 66.9 0.0 147.6



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

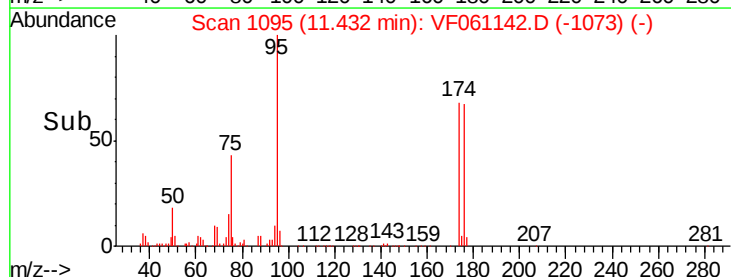
150000

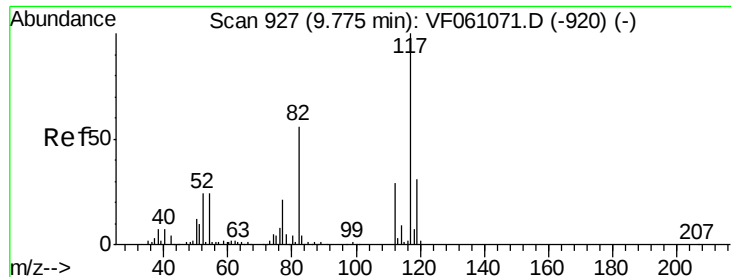
100000

50000

0

Time-->





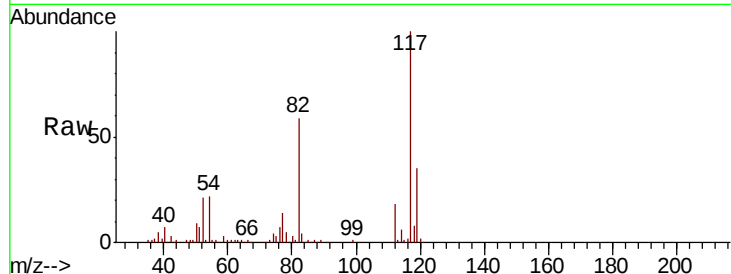
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	339990		
82	58.9	45.0	67.4	
119	34.7	24.8	37.2	

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM

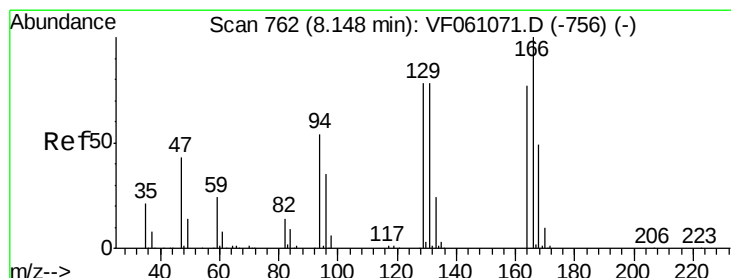
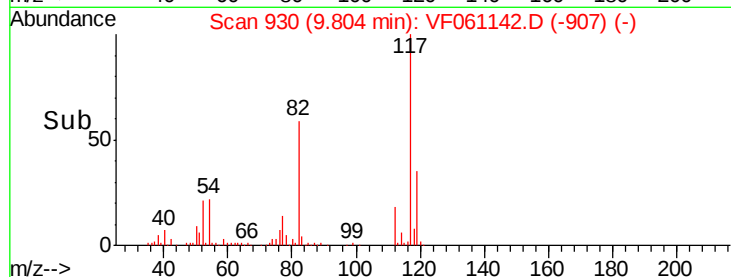
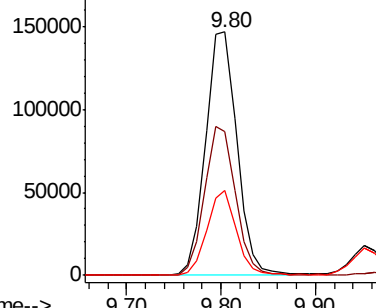


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 19.011 ug/l
RT: 8.18 min Scan# 765
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	49722		
166	129.3	104.0	156.0	
129	102.4	81.1	121.7	
131	94.5	81.2	121.8	

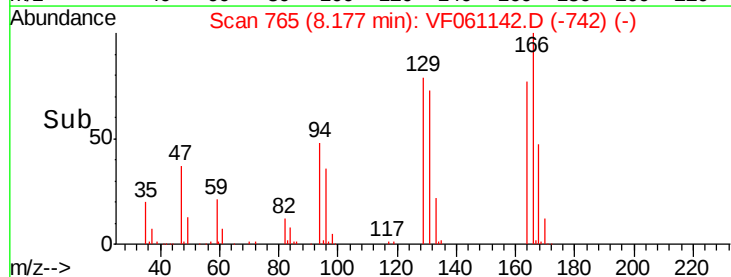
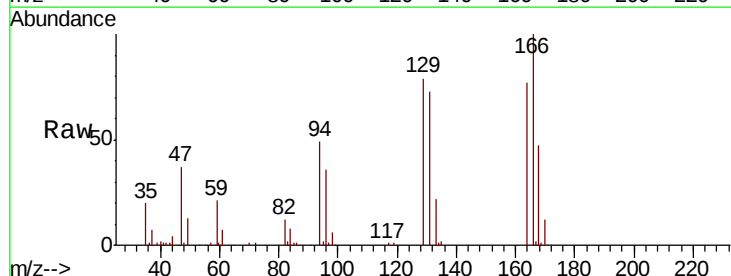
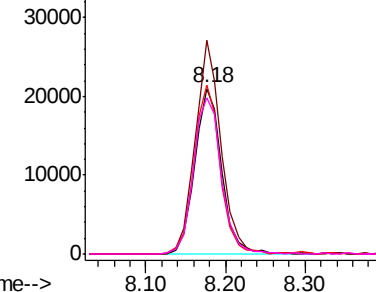
Abundance

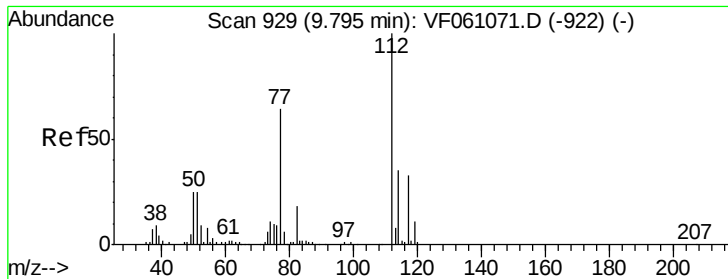
Ion 163.85 (163.55 to 164.55): V

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





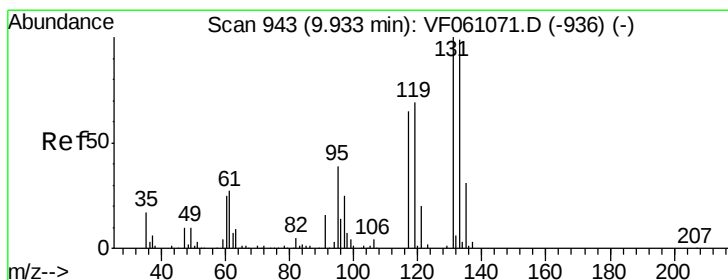
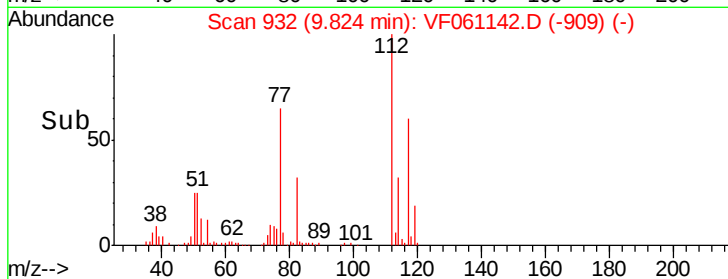
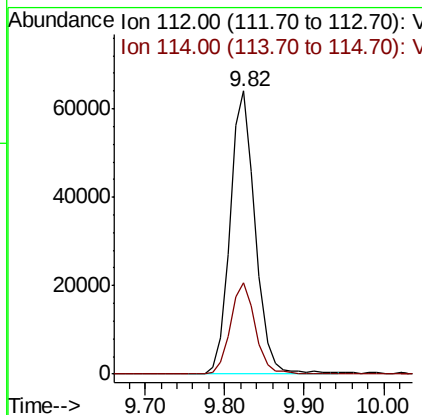
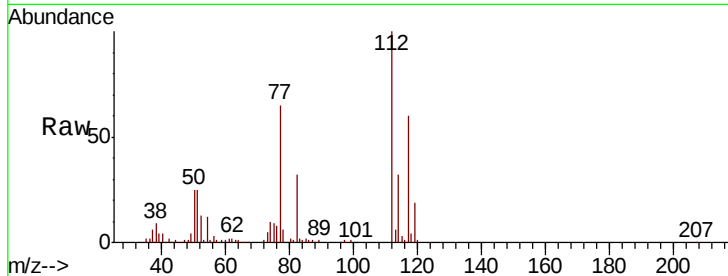
#65
Chlorobenzene
Concen: 20.127 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.03 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion:112 Resp: 141364
Ion Ratio Lower Upper
112 100
114 32.1 27.8 41.6

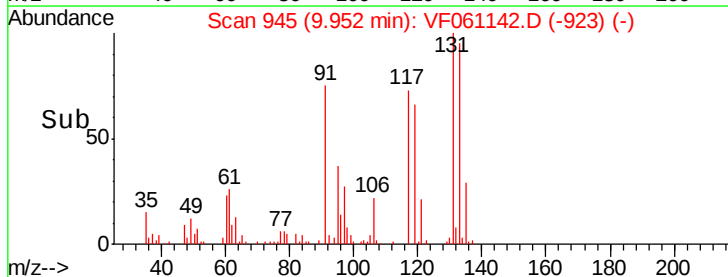
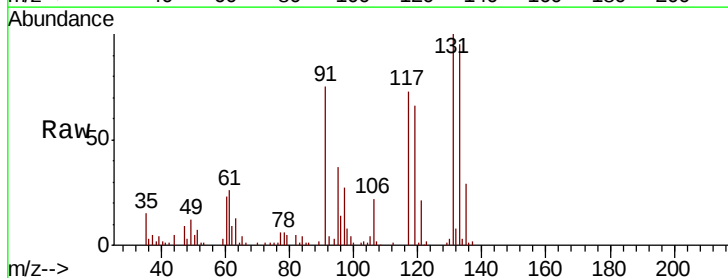
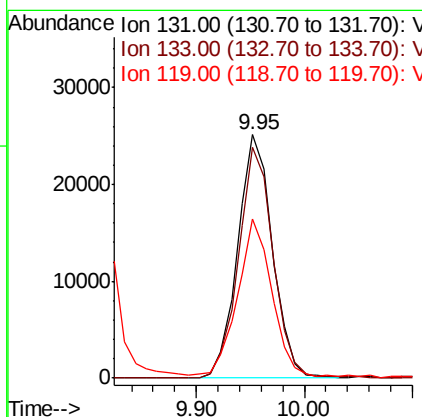
Manual Integrations
APPROVED

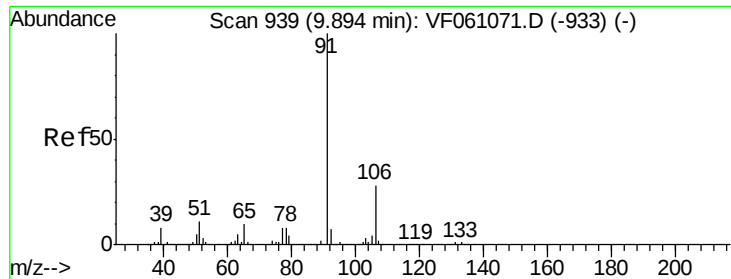
MMDadoda
12/26/2018 11:05:03 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.623 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion:131 Resp: 56325
Ion Ratio Lower Upper
131 100
133 94.9 49.5 148.7
119 65.6 34.5 103.5





#67

Ethyl Benzene

Concen: 20.575 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.03 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 91 Resp: 263282

Ion Ratio Lower Upper

91 100

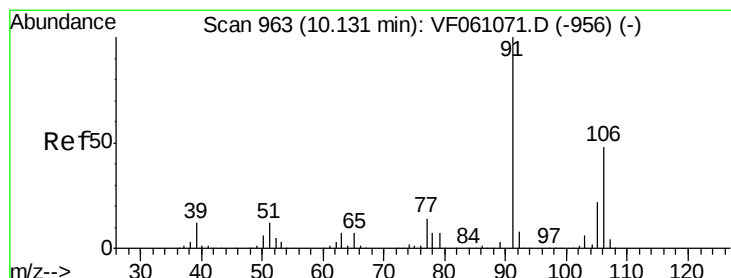
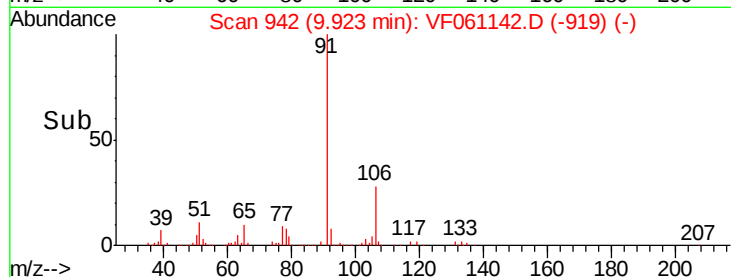
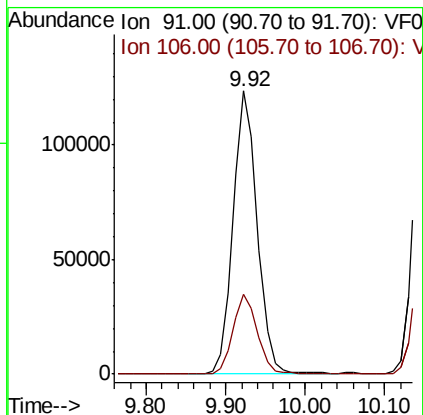
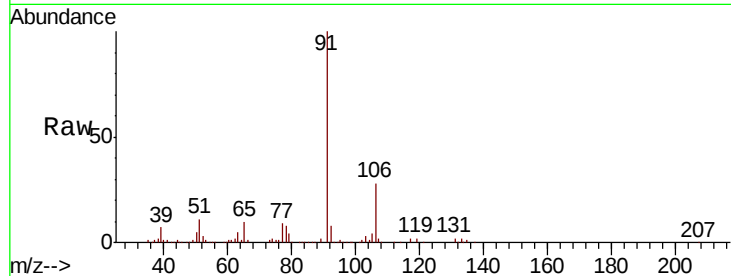
106 28.1 22.5 33.7

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



#68

m/p-Xylenes

Concen: 42.283 ug/l

RT: 10.16 min Scan# 966

Delta R.T. 0.03 min

Lab File: VF061142.D

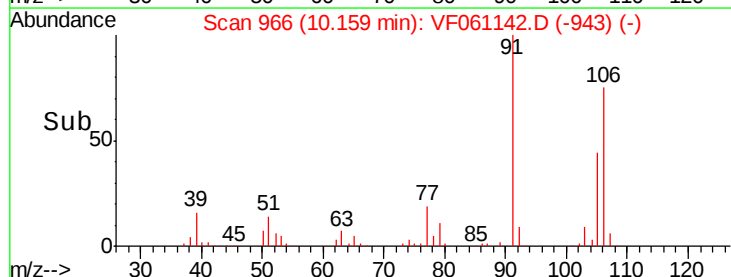
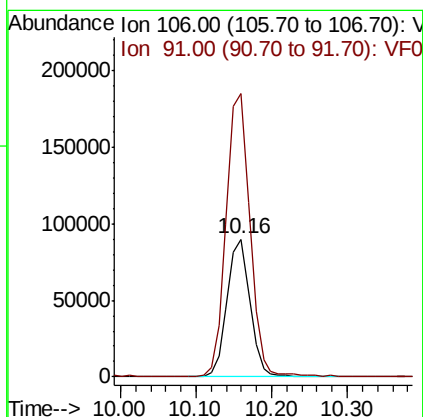
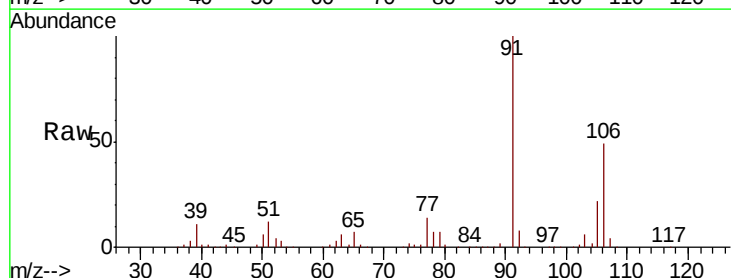
Acq: 22 Dec 2018 14:04

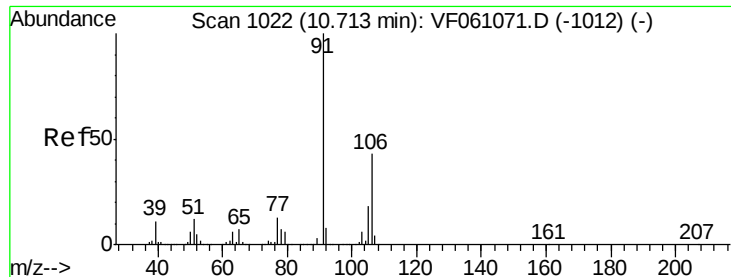
Tgt Ion: 106 Resp: 190409

Ion Ratio Lower Upper

106 100

91 205.8 168.2 252.2





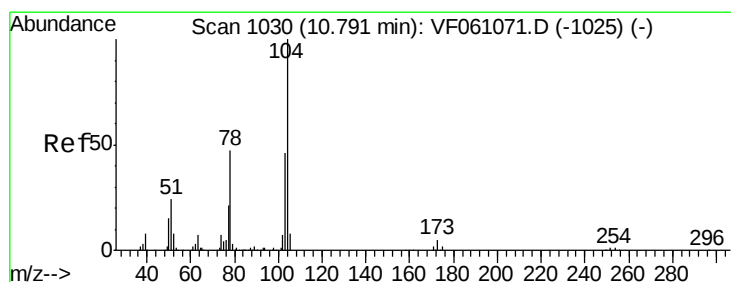
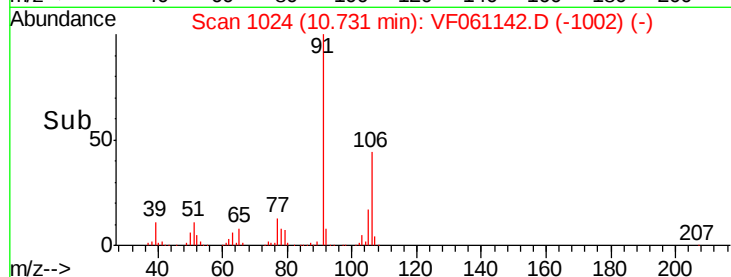
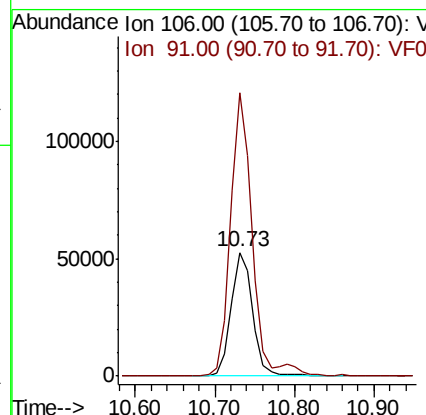
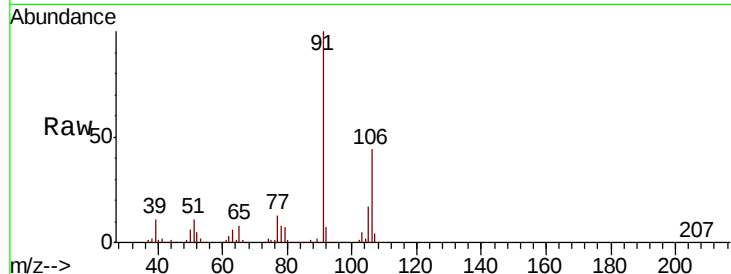
#69
o-Xylene
Concen: 20.307 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion:106 Resp: 101422
Ion Ratio Lower Upper
106 100
91 228.9 115.9 347.7

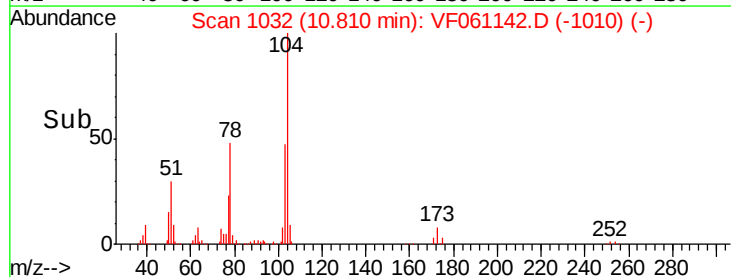
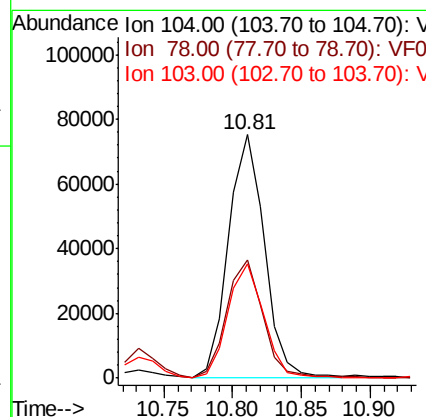
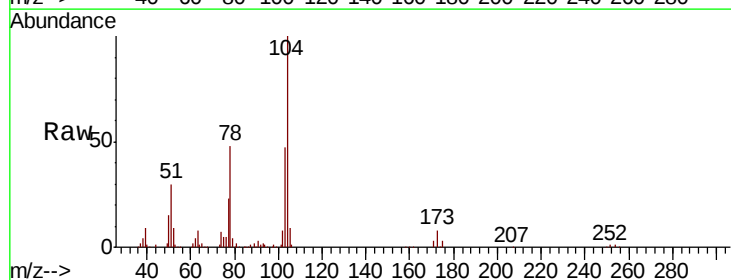
Manual Integrations
APPROVED

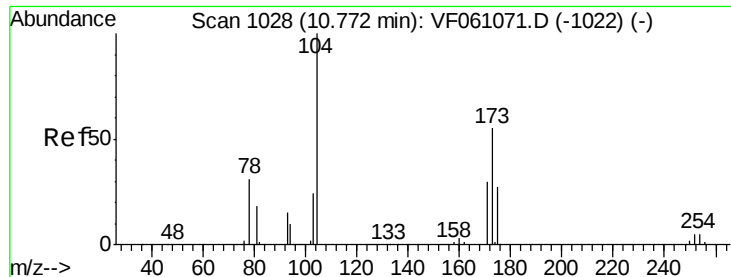
MMDadoda
12/26/2018 11:05:03 AM



#70
Styrene
Concen: 19.251 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion:104 Resp: 135438
Ion Ratio Lower Upper
104 100
78 48.4 38.4 57.6
103 47.1 37.0 55.6





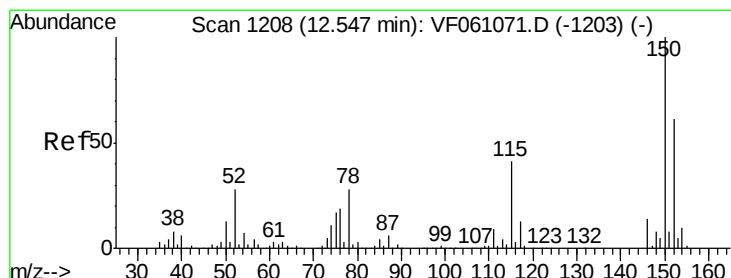
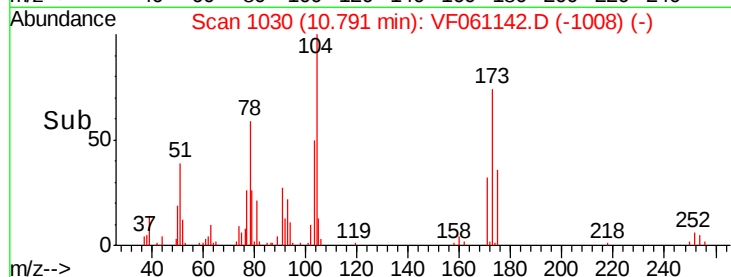
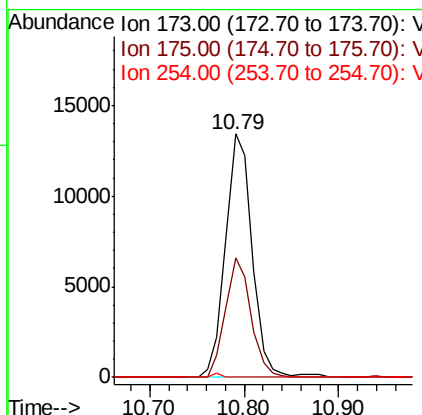
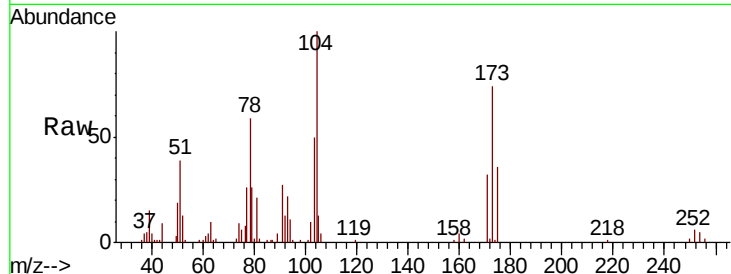
#71
Bromoform
Concen: 19.750 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.8	74.4
254	0.0	0.0	0.0

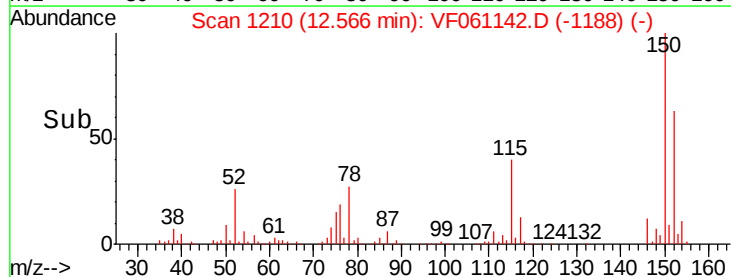
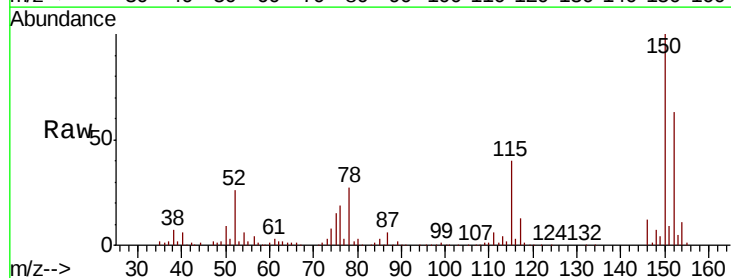
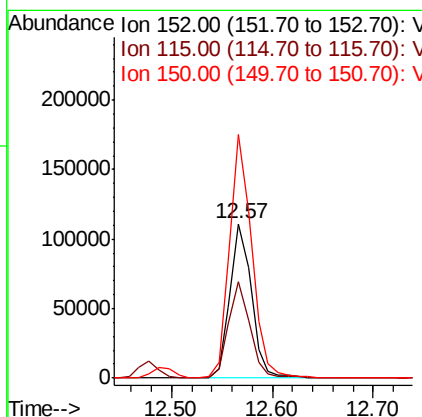
Manual Integrations
APPROVED

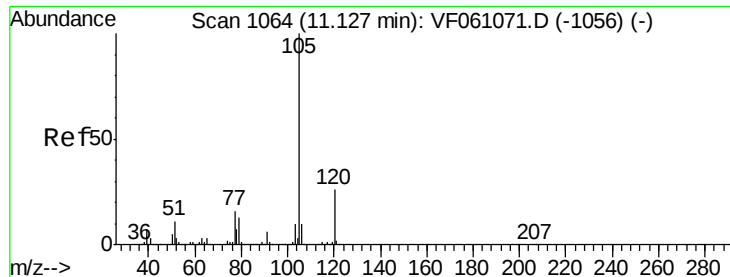
MMDadoda
12/26/2018 11:05:03 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1210
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.8	33.3	99.9
150	157.7	0.0	328.2





#73

Isopropylbenzene

Concen: 21.403 ug/l

RT: 11.15 min Scan# 1066

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 105 Resp: 306967

Ion Ratio Lower Upper

105 100

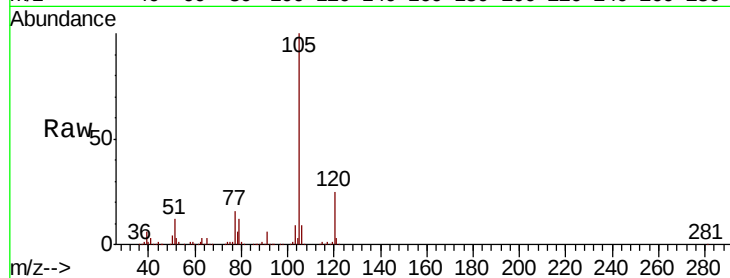
120 24.6 13.0 39.0

Manual Integrations

APPROVED

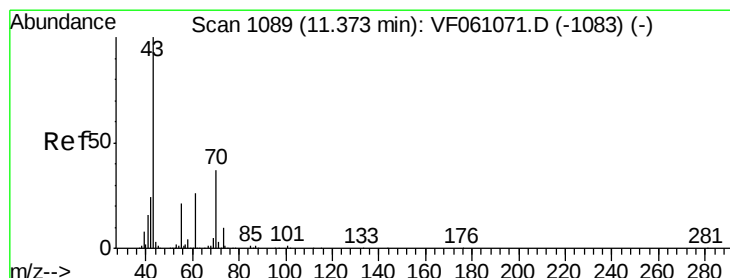
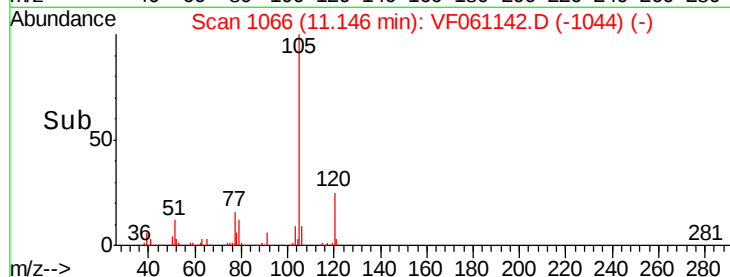
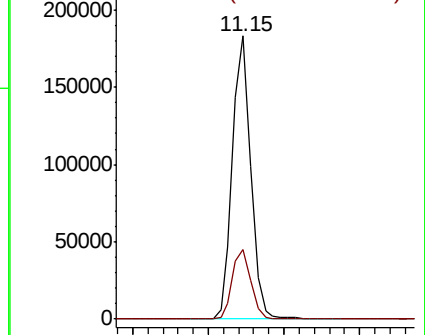
MMDadoda

12/26/2018 11:05:03 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.581 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion: 43 Resp: 71902

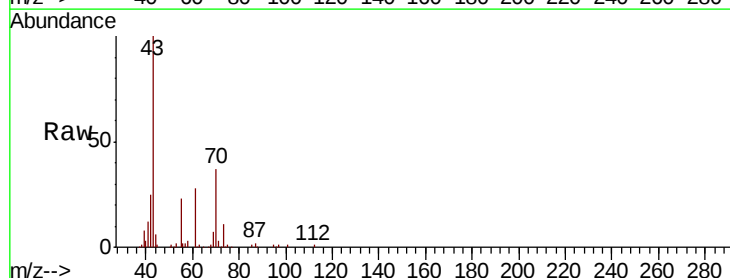
Ion Ratio Lower Upper

43 100

70 36.9 29.2 43.8

55 23.2 16.5 24.7

61 27.7 20.7 31.1

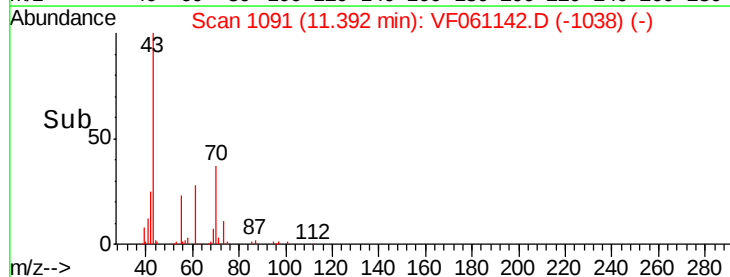
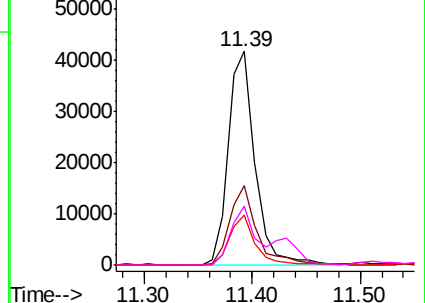


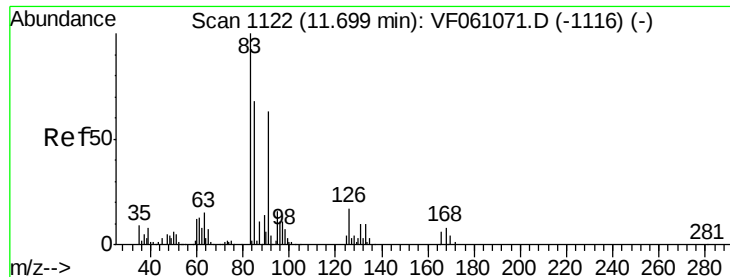
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.220 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

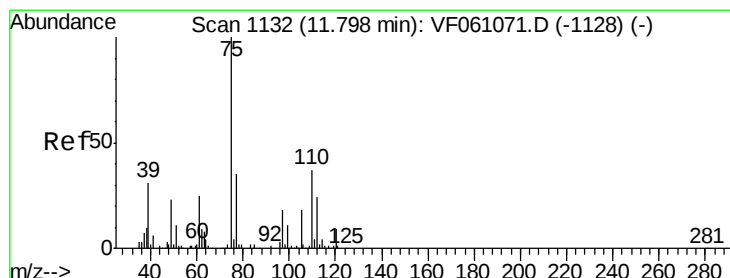
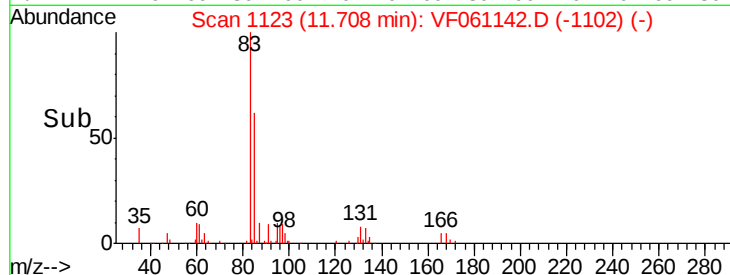
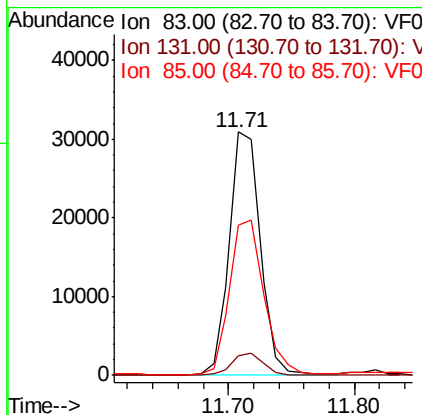
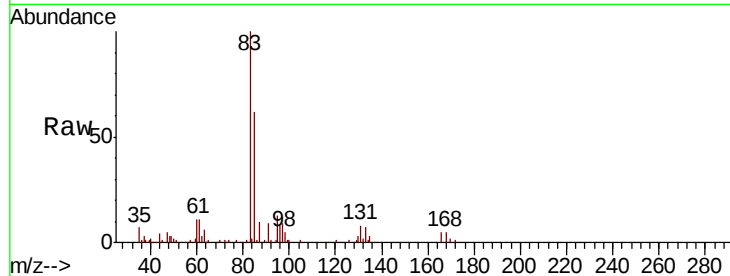
ClientSampleId :

VF1222SBS01

Tgt Ion:	83	Resp:	52890
Ion Ratio	Lower	Upper	
83	100		
131	8.2	4.8	14.3
85	61.6	33.9	101.6

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM



#76

1,2,3-Trichloropropane

Concen: 20.821 ug/l

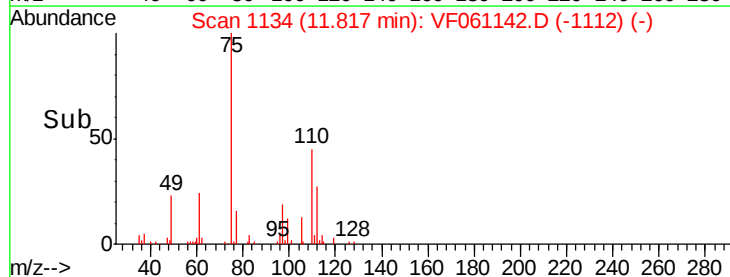
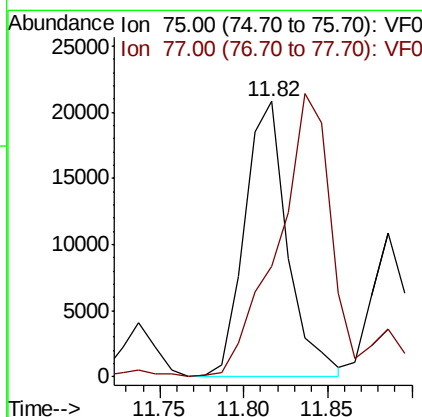
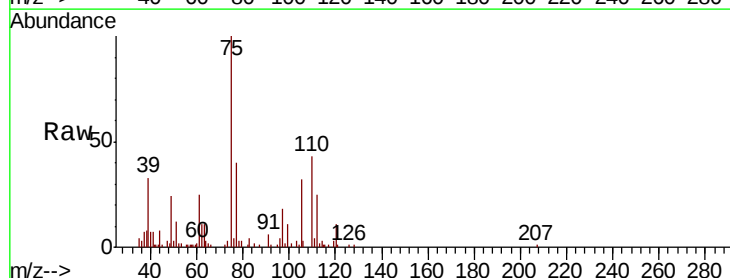
RT: 11.82 min Scan# 1134

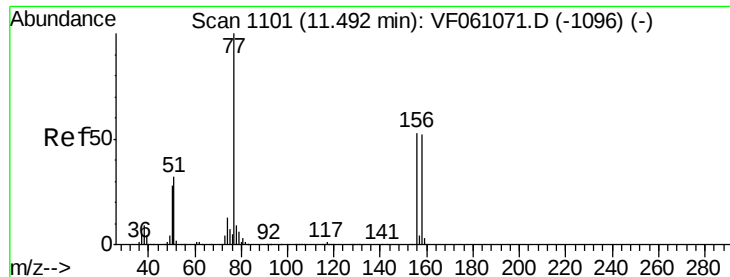
Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion:	75	Resp:	36883
Ion Ratio	Lower	Upper	
75	100		
77	40.0	17.6	52.9





#77

Bromobenzene

Concen: 19.419 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

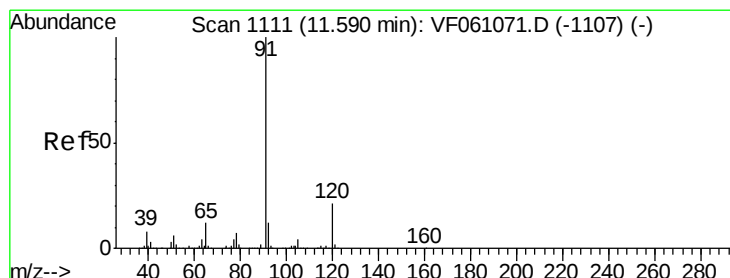
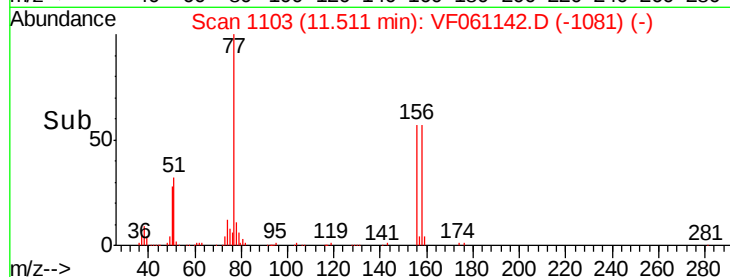
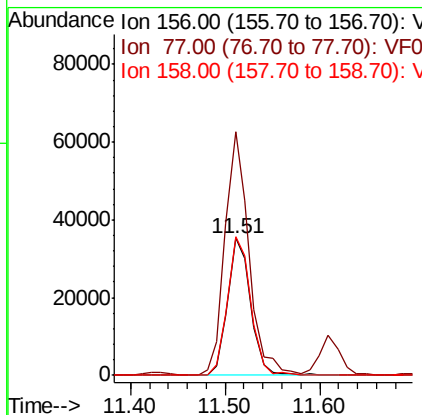
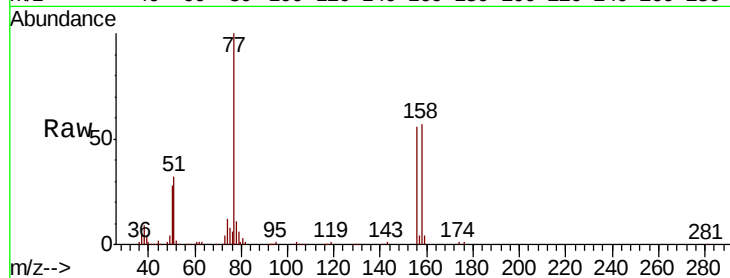
ClientSampleId :

VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	177.3	93.8	281.4
158	100.7	48.9	146.8

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM



#78

n-propylbenzene

Concen: 19.556 ug/l

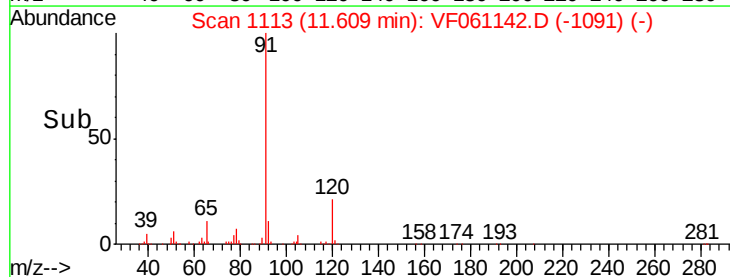
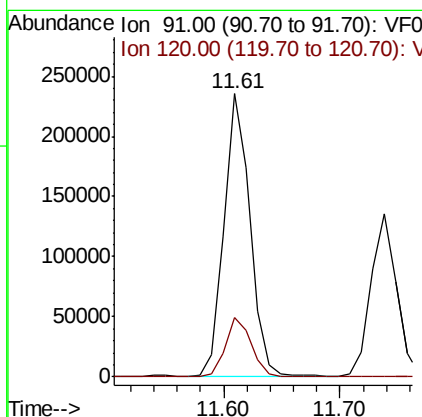
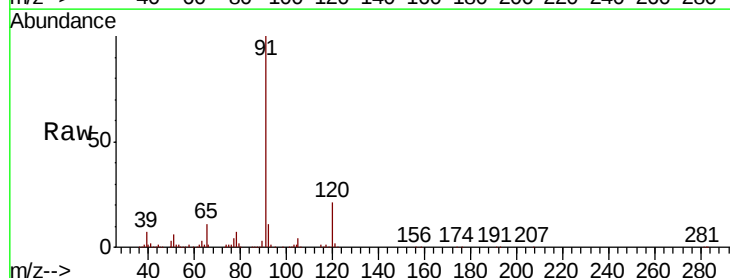
RT: 11.61 min Scan# 1113

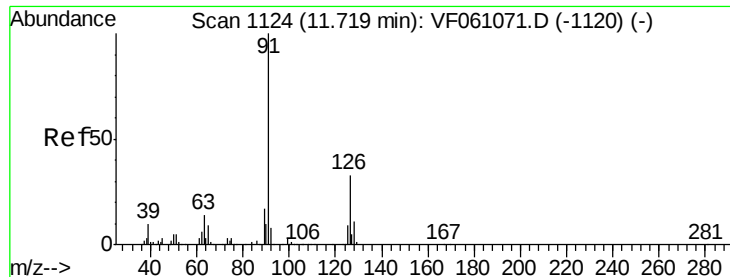
Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.4	31.2





#79

2-Chlorotoluene

Concen: 21.089 ug/l

RT: 11.74 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

ClientSampleId :

VF1222SBS01

Tgt Ion: 91 Resp: 207490

Ion Ratio Lower Upper

91 100

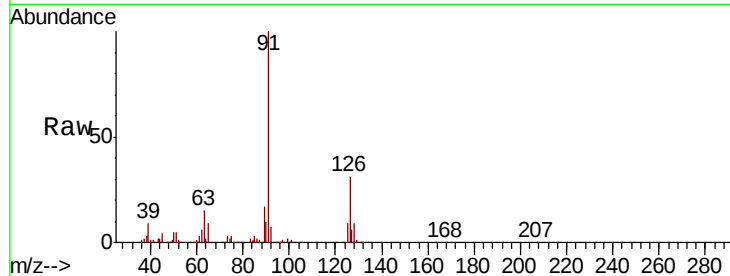
126 30.9 16.4 49.1

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:05:03 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.74

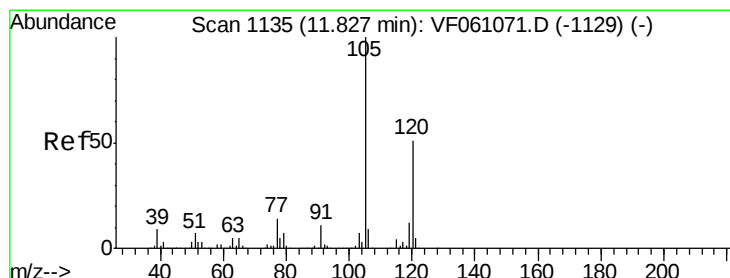
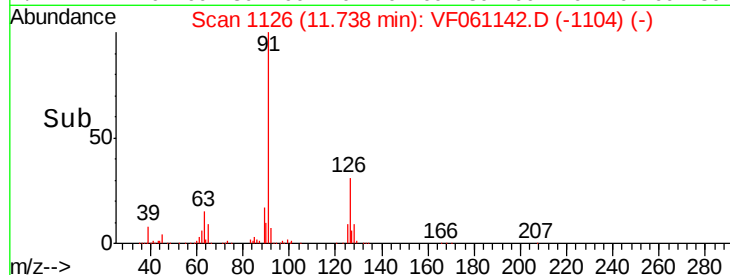
150000

100000

50000

0

Time--> 11.65 11.70 11.75 11.80



#80

1,3,5-Trimethylbenzene

Concen: 21.228 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VF061142.D

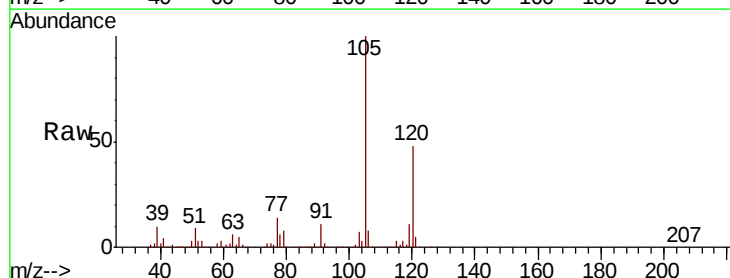
Acq: 22 Dec 2018 14:04

Tgt Ion: 105 Resp: 250692

Ion Ratio Lower Upper

105 100

120 47.6 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.84

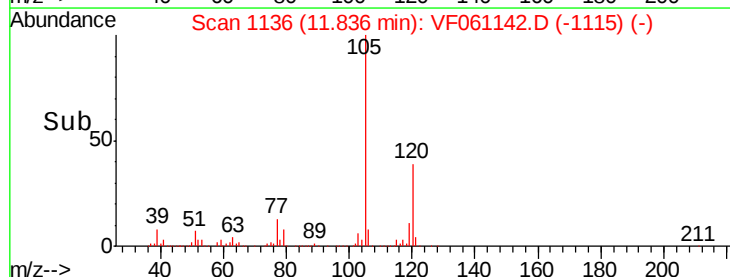
150000

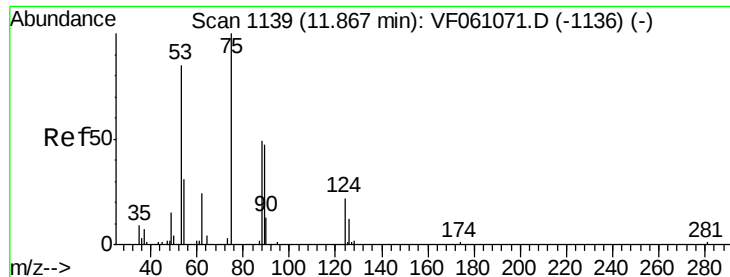
100000

50000

0

Time--> 11.70 11.80 11.90





#81

trans-1,4-Dichloro-2-butene

Concen: 22.094 ug/l m

RT: 11.89 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Instrument :

MSVOA_F

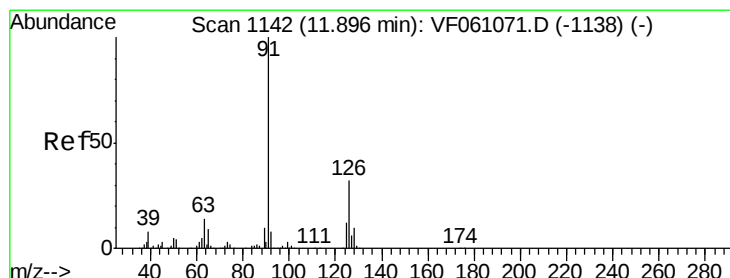
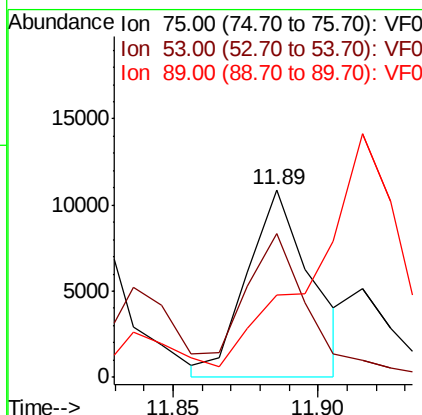
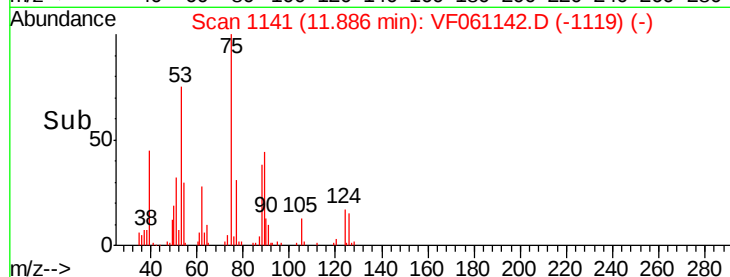
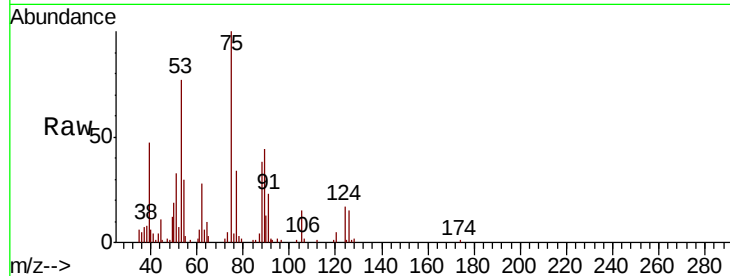
ClientSampleId :

VF1222SBS01

Tgt Ion:	75	Resp:	16818
Ion	Ratio	Lower	Upper
75	100		
53	76.6	74.1	111.1
89	43.8	42.6	64.0

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM



#82

4-Chlorotoluene

Concen: 20.843 ug/l

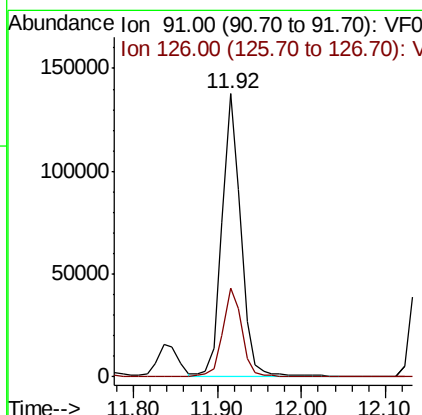
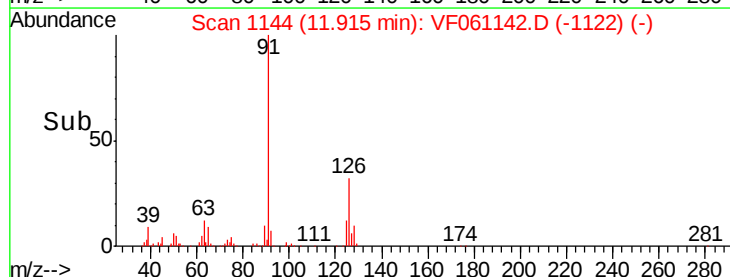
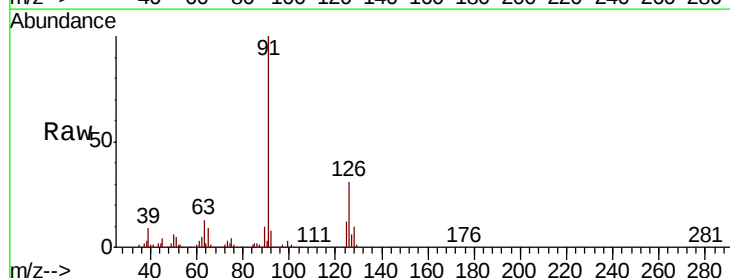
RT: 11.92 min Scan# 1144

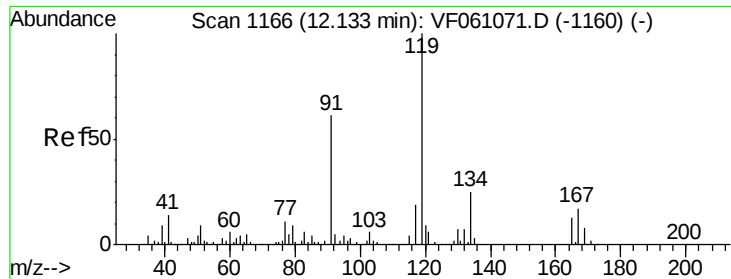
Delta R.T. 0.02 min

Lab File: VF061142.D

Acq: 22 Dec 2018 14:04

Tgt Ion:	91	Resp:	212133
Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.0	47.9





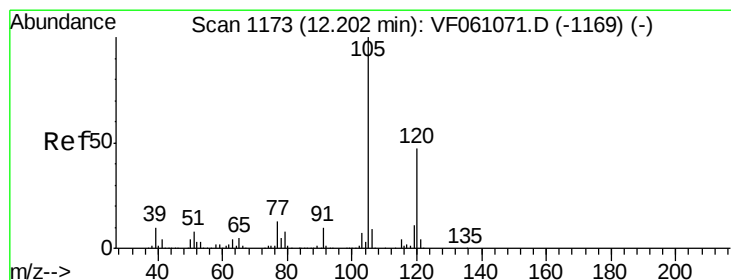
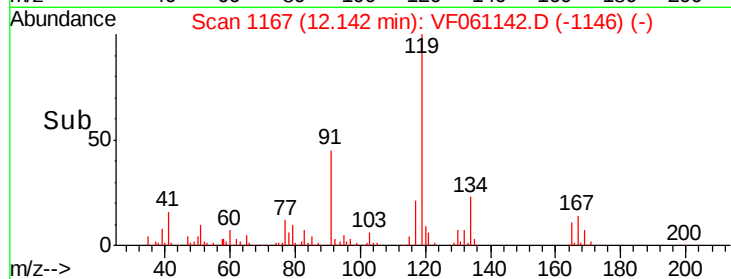
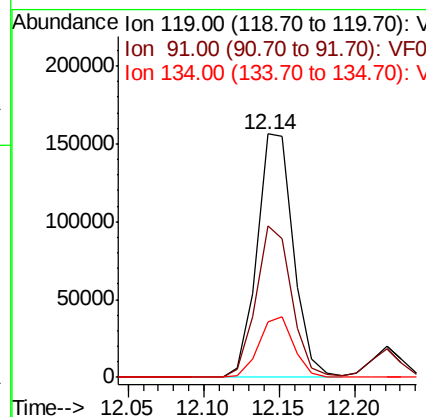
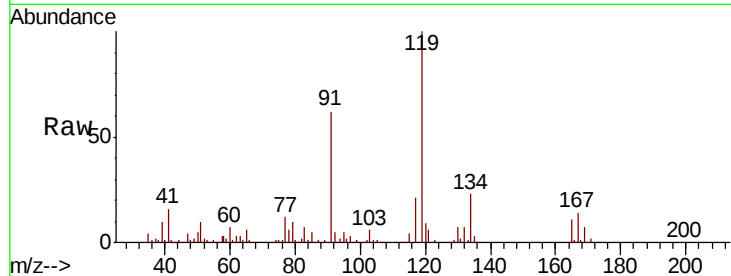
#83
 tert-Butylbenzene
 Concen: 21.704 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.01 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	263754		
91	62.1	30.5	91.5	
134	22.8	12.4	37.4	

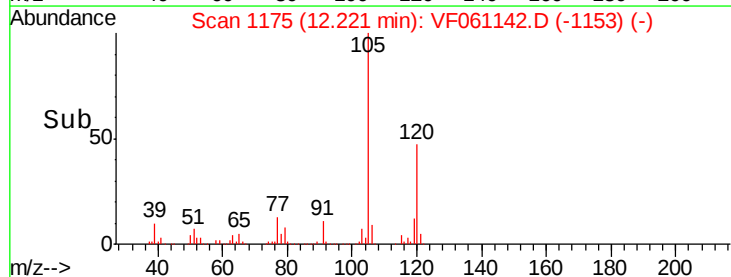
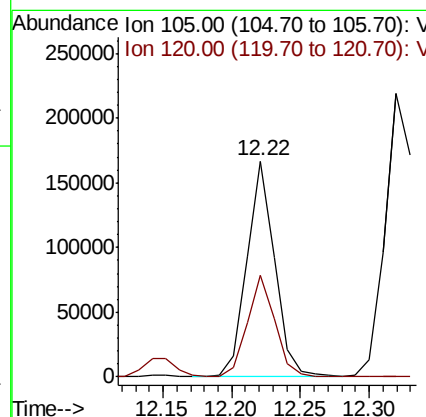
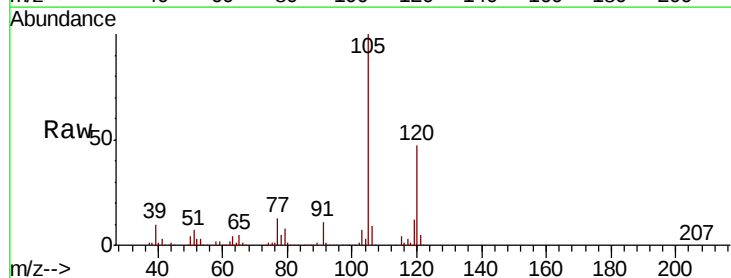
Manual Integrations
 APPROVED

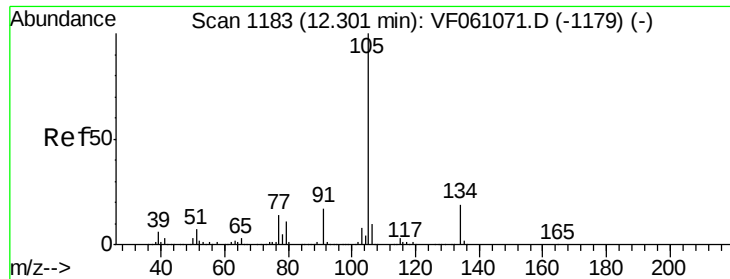
MMDadoda
 12/26/2018 11:05:03 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.988 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	235397		
120	47.2	23.6	71.0	





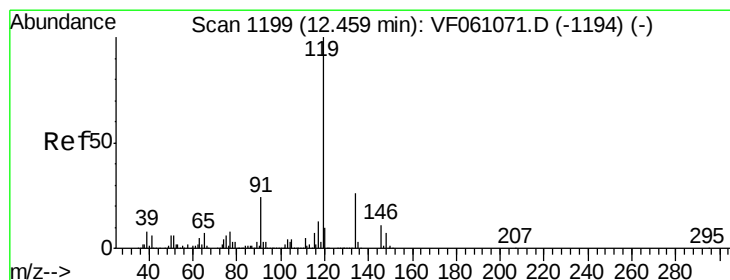
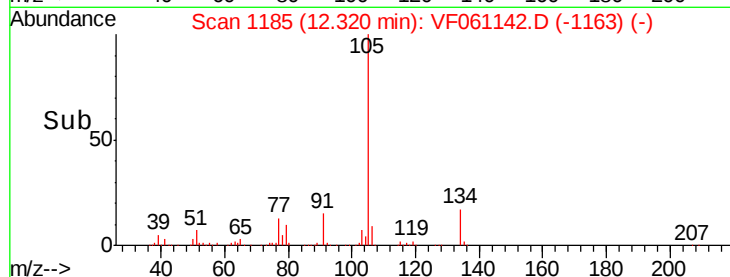
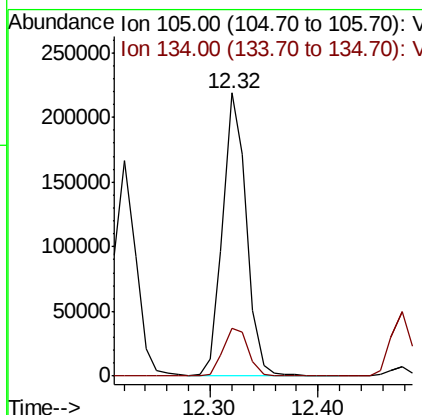
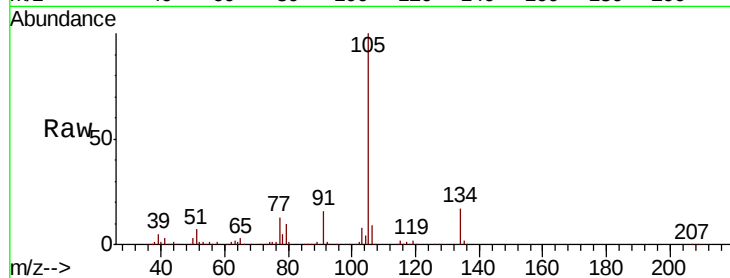
#85
 sec-Butylbenzene
 Concen: 21.072 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	334173		
134	17.1	9.4	28.2	

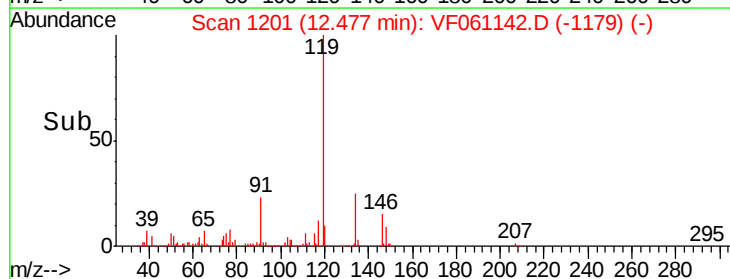
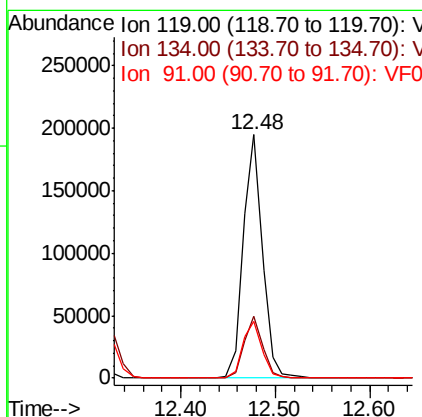
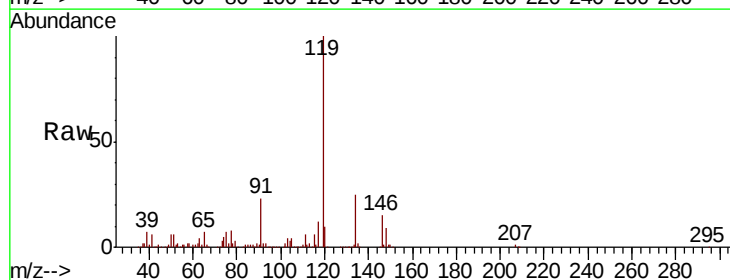
Manual Integrations
 APPROVED

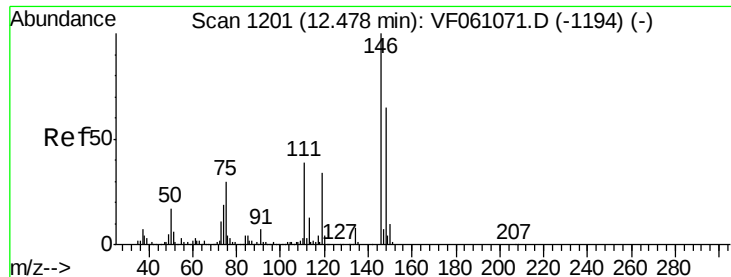
MMDadoda
 12/26/2018 11:05:03 AM



#86
 p-Isopropyltoluene
 Concen: 20.776 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	273494		
134	25.3	12.8	38.4	
91	23.4	12.2	36.6	





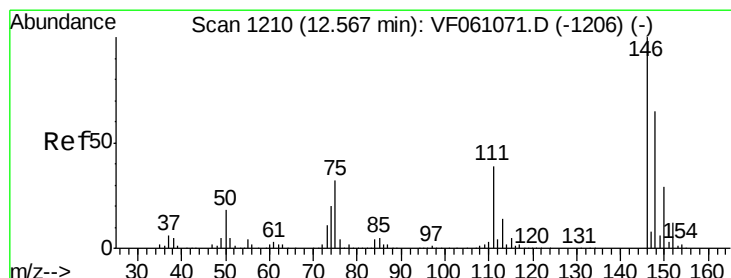
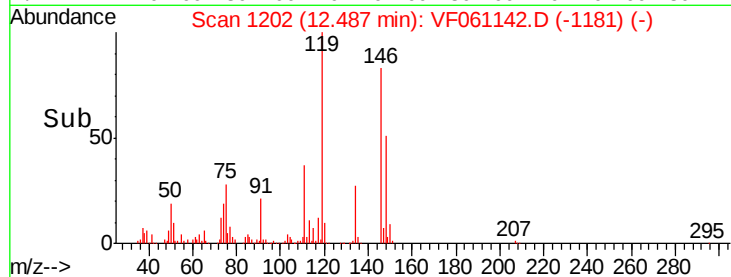
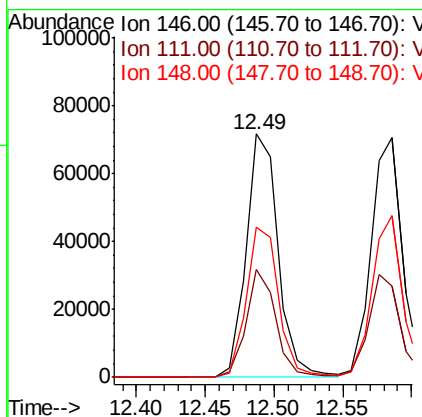
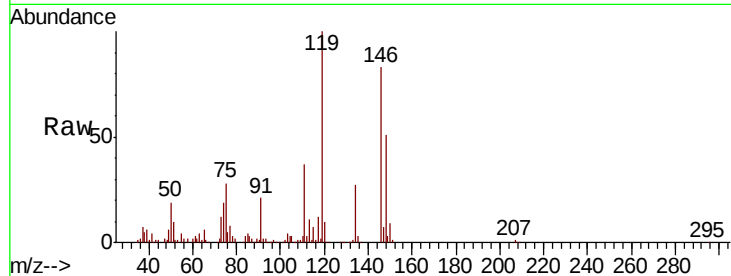
#87
 1,3-Dichlorobenzene
 Concen: 19.996 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	19.3	57.9
148	61.7	32.4	97.2

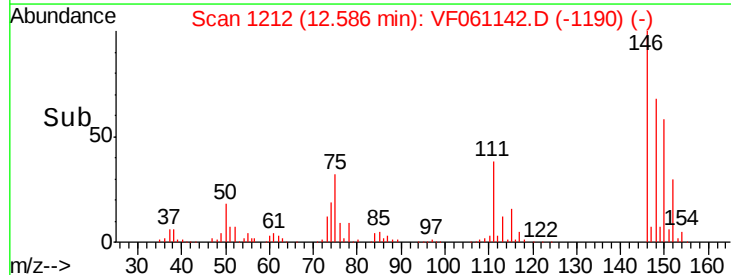
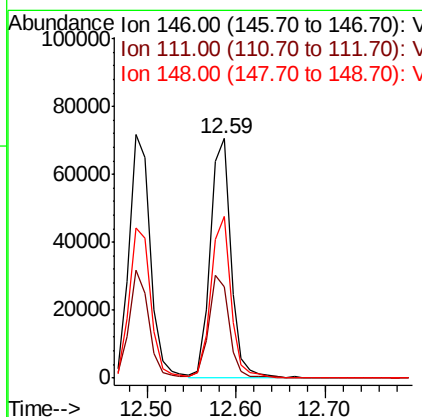
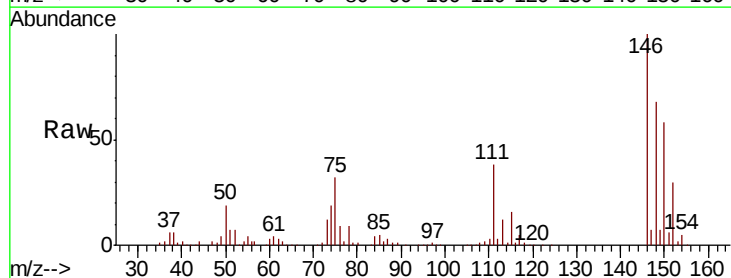
Manual Integrations
 APPROVED

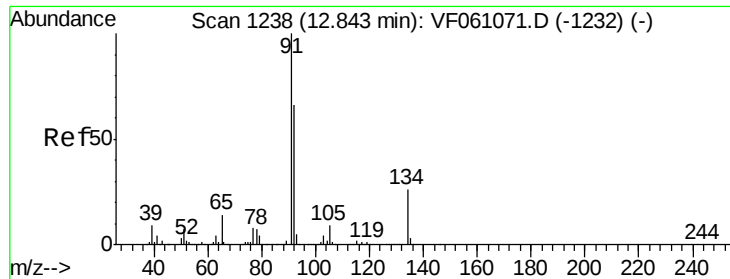
MMDadoda
 12/26/2018 11:05:03 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.020 ug/l
 RT: 12.59 min Scan# 1212
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.4	58.4
148	67.8	32.4	97.0





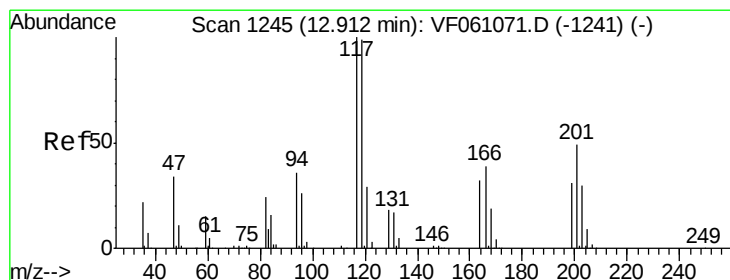
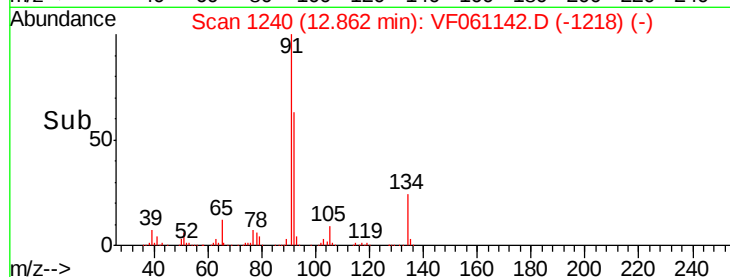
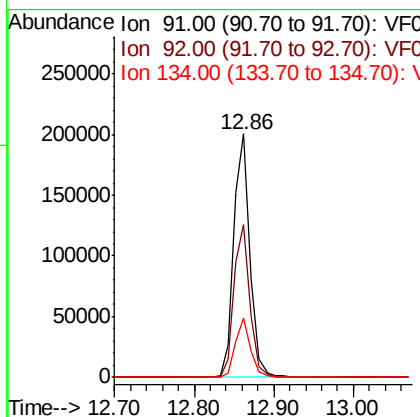
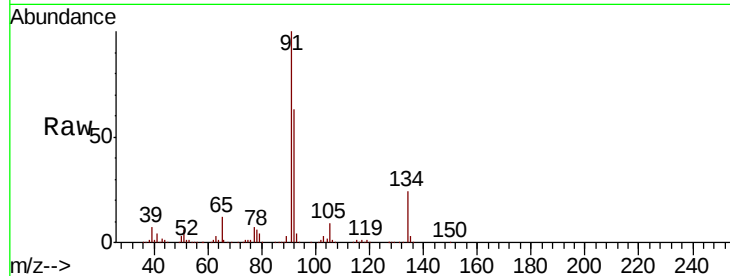
#89
n-Butylbenzene
Concen: 18.991 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.9	32.8	98.4
134	24.3	13.2	39.5

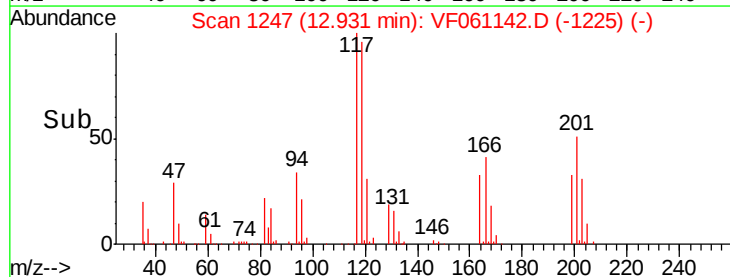
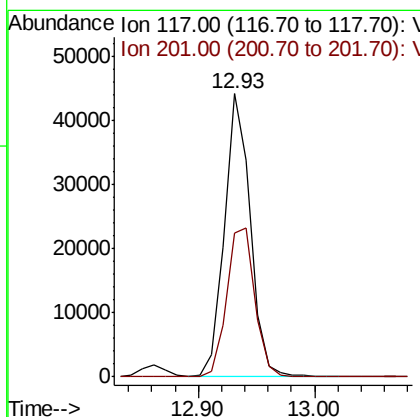
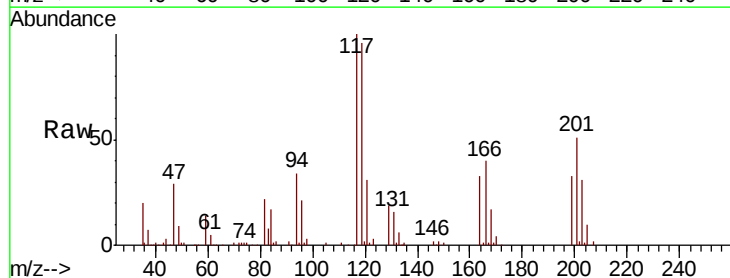
Manual Integrations
APPROVED

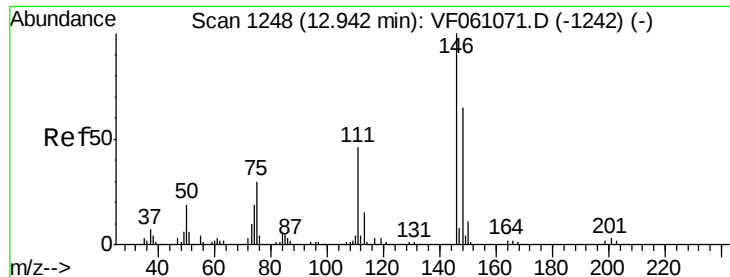
MMDadoda
12/26/2018 11:05:03 AM



#90
Hexachloroethane
Concen: 20.852 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	51.0	24.9	74.8





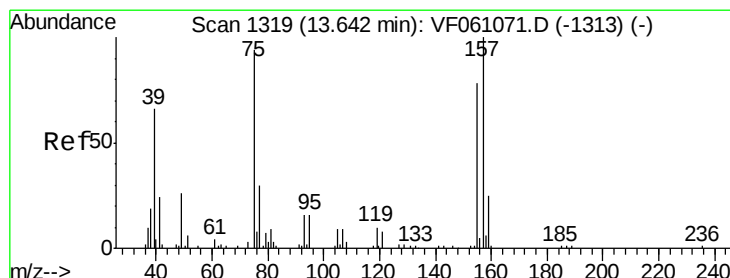
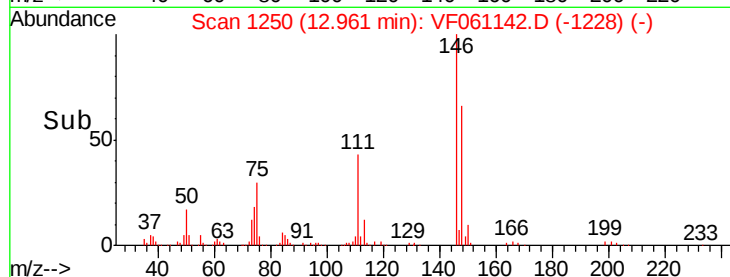
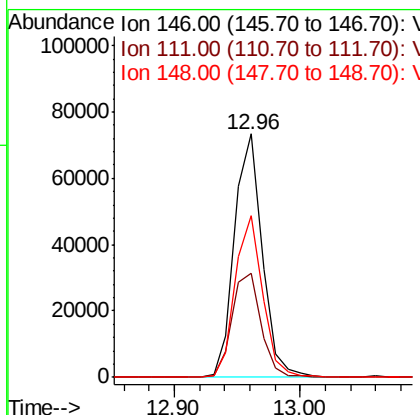
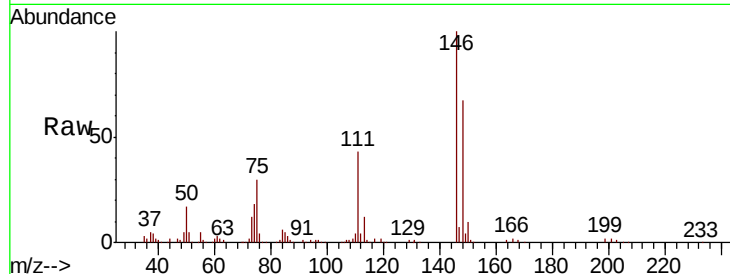
#91
 1,2-Dichlorobenzene
 Concen: 20.183 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	111398		
111	42.9	23.2	69.5	
148	66.6	32.4	97.0	

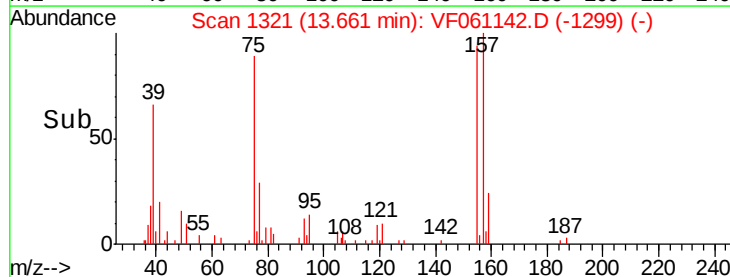
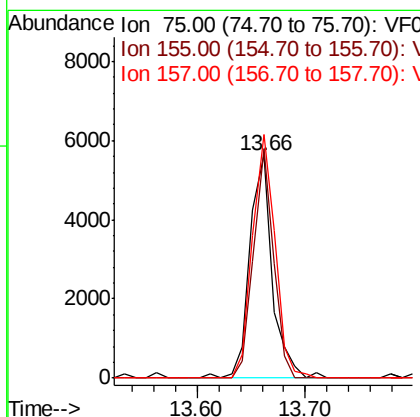
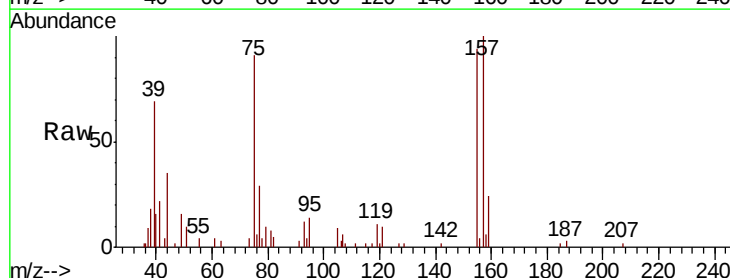
Manual Integrations
 APPROVED

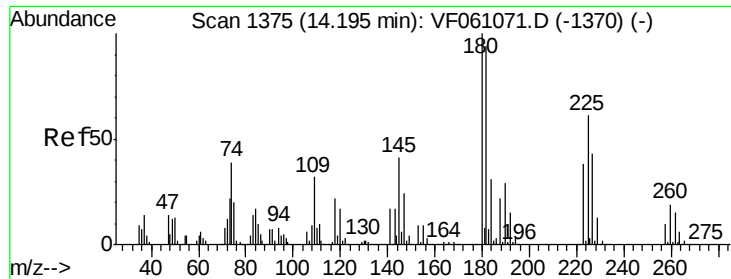
MMDadoda
 12/26/2018 11:05:03 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.562 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8108		
155	103.0	41.5	124.5	
157	109.4	53.2	159.6	





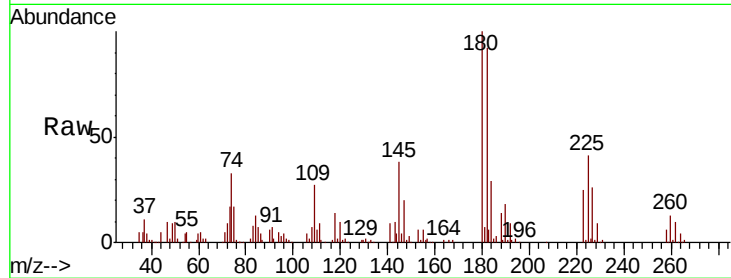
#93
 1,2,4-Trichlorobenzene
 Concen: 21.137 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1222SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	82738		
182	92.0	46.9	140.6	
145	37.6	20.5	61.6	

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 11:05:03 AM

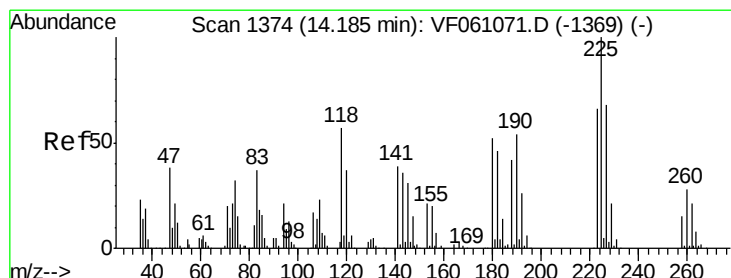
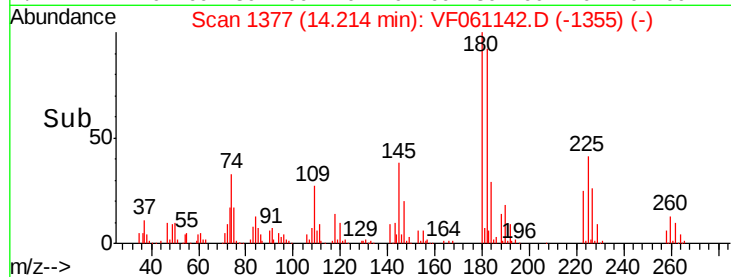
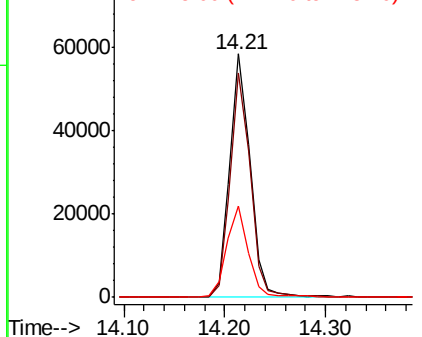


Abundance

Ion 180.00 (179.70 to 180.70): V

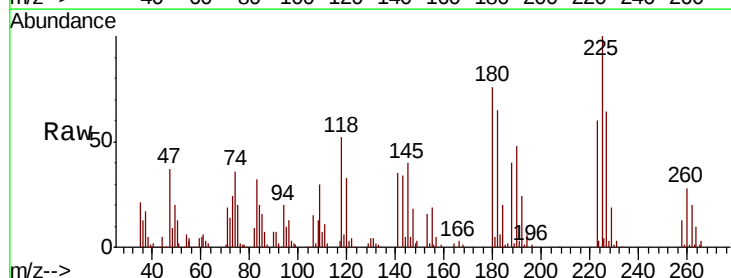
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 19.746 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.02 min
 Lab File: VF061142.D
 Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	49227		
223	60.4	32.8	98.3	
227	63.9	34.0	101.8	

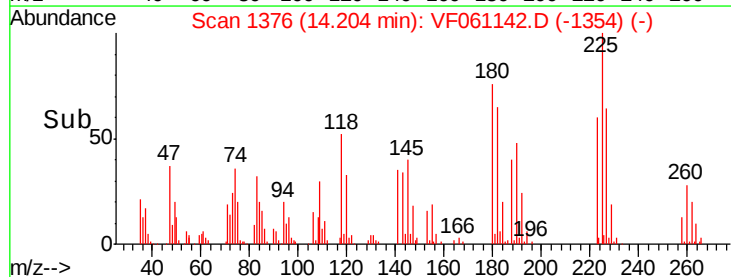
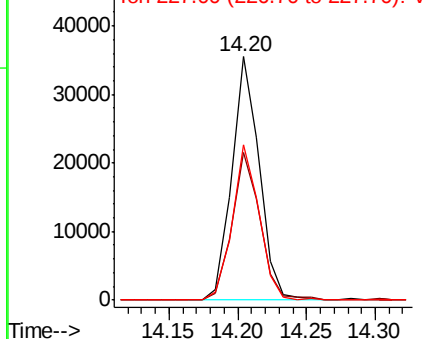


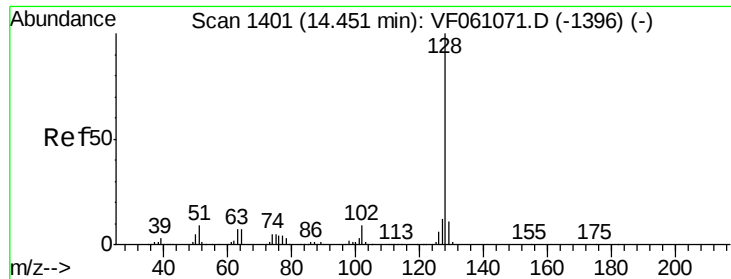
Abundance

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





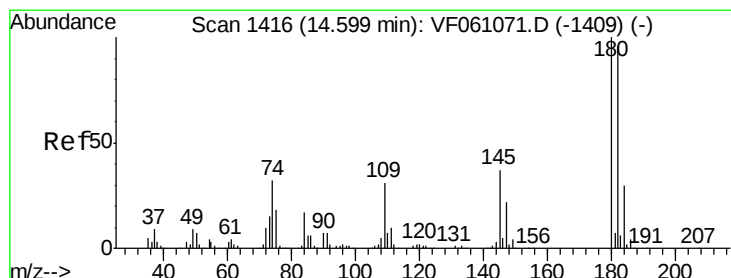
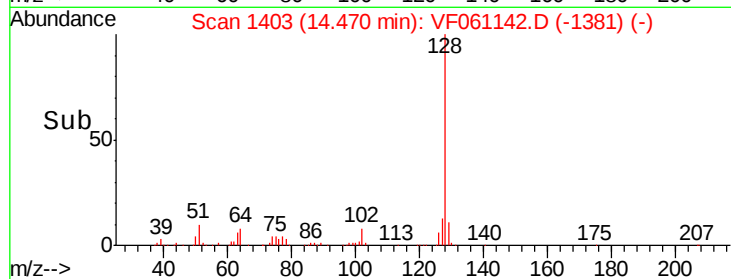
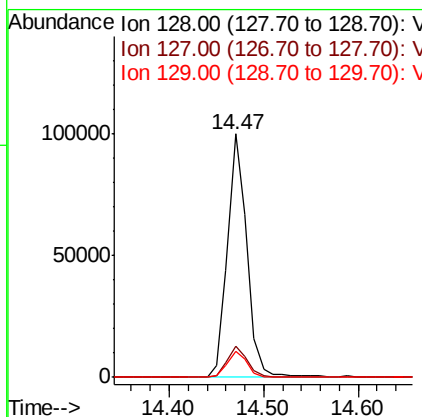
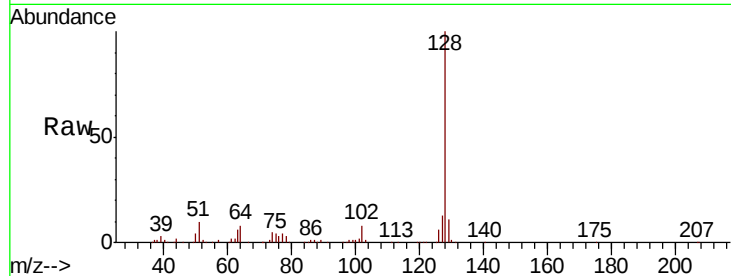
#95
Naphthalene
Concen: 19.934 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Instrument :
MSVOA_F
ClientSampleId :
VF1222SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	142481		
127	12.8	9.4	14.2	
129	10.6	8.8	13.2	

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:05:03 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.855 ug/l
RT: 14.62 min Scan# 1418
Delta R.T. 0.02 min
Lab File: VF061142.D
Acq: 22 Dec 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	71847		
182	96.6	47.9	143.8	
145	34.9	18.6	55.8	

