

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110218\
 Data File : VF060566.D
 Acq On : 2 Nov 2018 18:16
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF110218

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 3:55:40 PM

Quant Time: Nov 03 04:46:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	263183	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	430339	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.78	117	381725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	208768	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	132907	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
35) Dibromofluoromethane	4.12	113	163544	49.19	ug/l	0.01
Spiked Amount	50.000		Recovery	=	98.38%	
50) Toluene-d8	7.56	98	486836	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
62) 4-Bromofluorobenzene	11.42	95	216088	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	137724	50.089	ug/l	96
3) Chloromethane	1.10	50	100947	43.826	ug/l	99
4) Vinyl Chloride	1.14	62	91504	43.112	ug/l #	87
5) Bromomethane	1.34	94	59119	49.622	ug/l	92
6) Chloroethane	1.38	64	39430	51.589	ug/l	97
7) Trichlorofluoromethane	1.49	101	199459	50.209	ug/l	97
8) Diethyl Ether	1.63	74	30616	41.583	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	1.82	101	102546	45.173	ug/l	93
10) Methyl Iodide	1.89	142	170247	45.574	ug/l	93
11) Tert butyl alcohol	2.58	59	35193	252.790	ug/l	96
12) 1,1-Dichloroethene	1.78	96	79941	41.811	ug/l	87
13) Acrolein	2.01	56	18587	207.366	ug/l	93
14) Allyl chloride	2.11	41	151347	48.479	ug/l	96
15) Acrylonitrile	2.95	53	70563	222.658	ug/l	99
16) Acetone	2.24	43	146501	233.806	ug/l	98
17) Carbon Disulfide	1.84	76	235299m	43.690	ug/l	
18) Methyl Acetate	2.35	43	54581	56.020	ug/l	100
19) Methyl tert-butyl Ether	2.44	73	216611	48.465	ug/l	99
20) Methylene Chloride	2.23	84	95868m	51.798	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	96704	48.211	ug/l	97
22) Diisopropyl ether	2.81	45	317671	48.027	ug/l #	98
23) Vinyl Acetate	3.20	43	933872	234.987	ug/l	99
24) 1,1-Dichloroethane	2.88	63	182496	47.674	ug/l	99
25) 2-Butanone	4.35	43	293885	249.278	ug/l	100
26) 2,2-Dichloropropane	3.61	77	134675	47.018	ug/l	99
27) cis-1,2-Dichloroethene	3.49	96	173040	45.190	ug/l	99
28) Bromochloromethane	3.72	49	111476	46.404	ug/l	99
29) Tetrahydrofuran	4.08	42	125219	271.024	ug/l	99
30) Chloroform	3.87	83	297578	49.135	ug/l	97
31) Cyclohexane	3.70	56	235965	44.669	ug/l	95
32) 1,1,1-Trichloroethane	4.10	97	224507	53.077	ug/l	98
36) 1,1-Dichloropropene	4.29	75	226280	47.755	ug/l	98
37) Ethyl Acetate	4.13	43	112060	49.267	ug/l #	78
38) Carbon Tetrachloride	4.00	117	212140	52.395	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	280184	48.455	ug/l	98
40) Benzene	4.64	78	563794	49.019	ug/l	99
41) Methacrylonitrile	4.76	41	62395	48.439	ug/l	98
42) 1,2-Dichloroethane	4.95	62	172987	52.403	ug/l	94
43) Isopropyl Acetate	6.97	43	163583	56.856	ug/l	99
44) Trichloroethene	5.51	130	170468	49.316	ug/l	96
45) 1,2-Dichloropropane	6.25	63	146389	49.765	ug/l	99
46) Dibromomethane	6.09	93	98322	52.687	ug/l	97
47) Bromodichloromethane	6.39	83	229275	50.936	ug/l	98
48) Methyl methacrylate	6.72	41	91630	50.673	ug/l	96
49) 1,4-Dioxane	6.70	88	19529	1032.407	ug/l #	80
51) 4-Methyl-2-Pentanone	8.26	43	509841	263.513	ug/l	98
52) Toluene	7.63	92	365766	48.819	ug/l	98
53) t-1,3-Dichloropropene	8.28	75	197631	50.518	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	243838	49.331	ug/l	95
55) 1,1,2-Trichloroethane	8.50	97	113695	52.148	ug/l	99
56) Ethyl methacrylate	8.63	69	150722	53.732	ug/l	99
57) 1,3-Dichloropropane	8.86	76	202785	53.009	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.63	63	49722	279.586	ug/l	100
59) 2-Hexanone	9.49	43	379386	301.400	ug/l	99
60) Dibromochloromethane	8.73	129	162245	53.210	ug/l	93
61) 1,2-Dibromoethane	8.99	107	118961	51.886	ug/l	99
64) Tetrachloroethene	8.16	164	163389	54.615	ug/l	95
65) Chlorobenzene	9.80	112	379995	48.678	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	166656	50.525	ug/l	93
67) Ethyl Benzene	9.91	91	726077	51.255	ug/l	98
68) m/p-Xylenes	10.14	106	522822	97.978	ug/l	100
69) o-Xylene	10.72	106	282486	48.481	ug/l	99
70) Styrene	10.80	104	404725	47.945	ug/l	99
71) Bromoform	10.78	173	90351	53.036	ug/l	99
73) Isopropylbenzene	11.13	105	774179	47.550	ug/l	100
74) N-amyl acetate	11.37	43	247701	60.796	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.69	83	155319	52.264	ug/l	97
76) 1,2,3-Trichloropropane	11.87	75	75304	51.560	ug/l	100
77) Bromobenzene	11.50	156	187138	52.529	ug/l	92
78) n-propylbenzene	11.60	91	950704	49.907	ug/l	98
79) 2-Chlorotoluene	11.72	91	533317	49.023	ug/l	100
80) 1,3,5-Trimethylbenzene	11.83	105	623373	46.450	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	61280m	53.389	ug/l	
82) 4-Chlorotoluene	11.90	91	560105	49.348	ug/l	99
83) tert-Butylbenzene	12.14	119	661144	48.223	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	648671	49.357	ug/l	99
85) sec-Butylbenzene	12.31	105	889770	47.178	ug/l	100
86) p-Isopropyltoluene	12.46	119	745114	47.976	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	341535	48.842	ug/l	99
88) 1,4-Dichlorobenzene	12.57	146	337051	50.819	ug/l	97
89) n-Butylbenzene	12.85	91	749920	49.681	ug/l	98
90) Hexachloroethane	12.92	117	190773	48.301	ug/l	74
91) 1,2-Dichlorobenzene	12.95	146	318781	48.729	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.65	75	26006	50.369	ug/l	89

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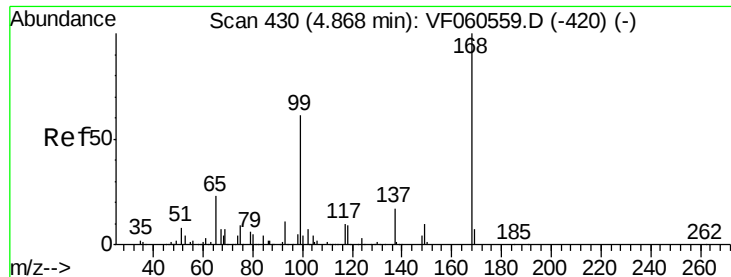
Manual Integrations
APPROVED

MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	227586	51.209	ug/l	97
94) Hexachlorobutadiene	14.20	225	143902	49.969	ug/l	98
95) Naphthalene	14.46	128	484587	54.477	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	225336	53.673	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion:168 Resp: 263183

Ion Ratio Lower Upper

168 100

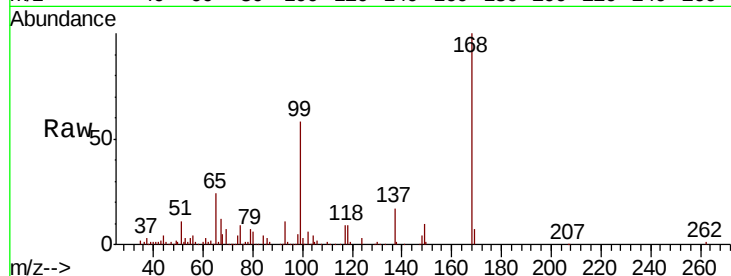
99 58.2 48.6 72.8

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF060559.D (-420) (-)

Ion 99.00 (98.70 to 99.70): VF060559.D (-420) (-)

4.88

80000

60000

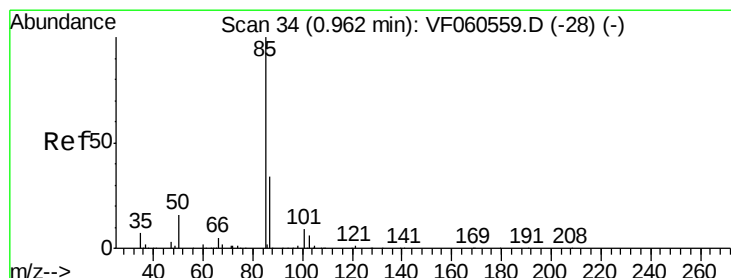
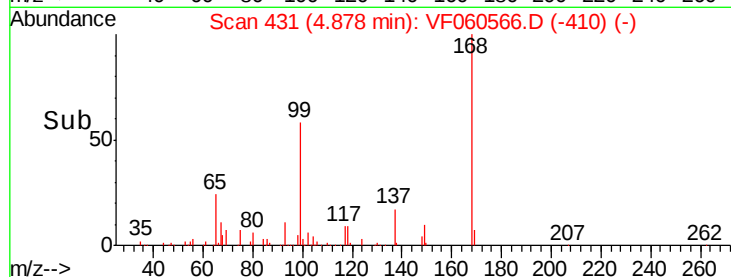
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 50.089 ug/l

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF060566.D

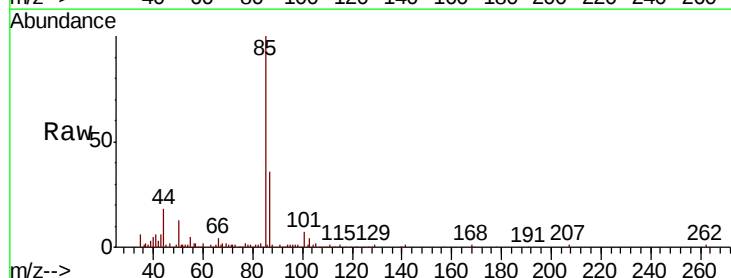
Acq: 2 Nov 2018 18:16

Tgt Ion: 85 Resp: 137724

Ion Ratio Lower Upper

85 100

87 36.3 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF060559.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VF060559.D (-28) (-)

0.97

50000

40000

30000

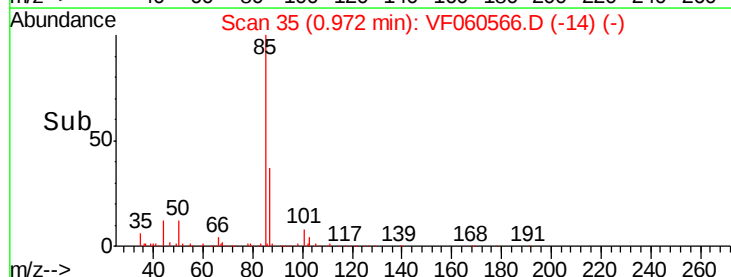
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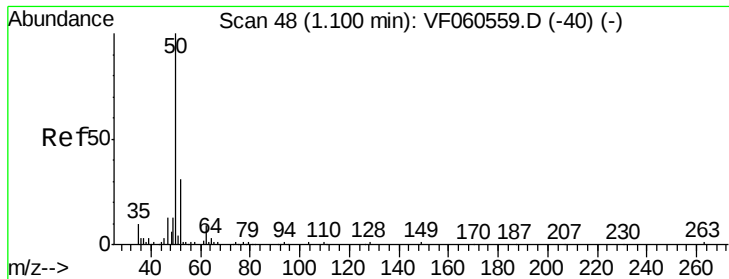
10000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 43.826 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion: 50 Resp: 100947

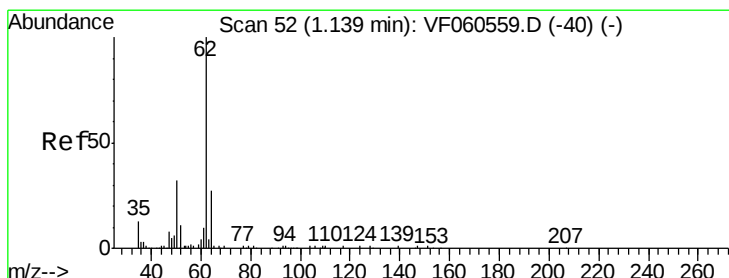
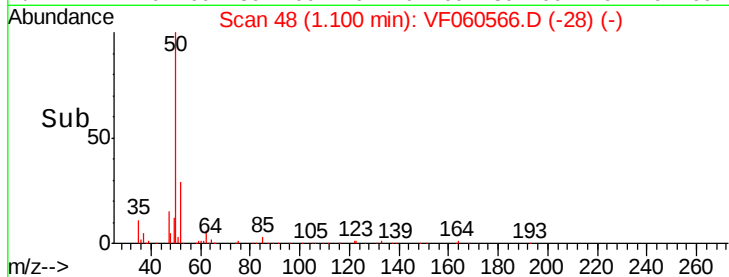
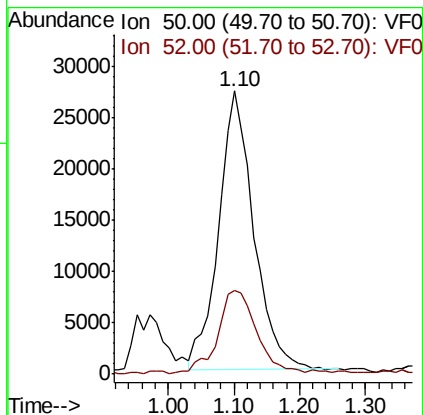
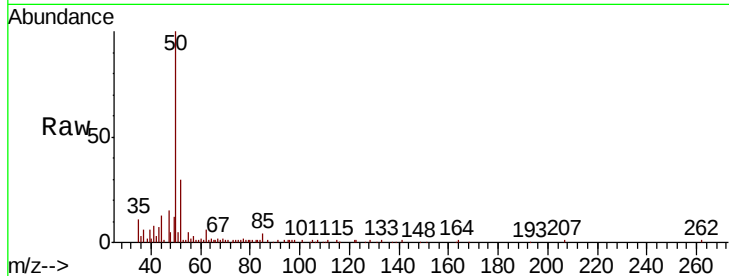
Ion Ratio Lower Upper

50 100

52 29.6 24.0 36.0

Manual Integrations
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#4

Vinyl Chloride

Concen: 43.112 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060566.D

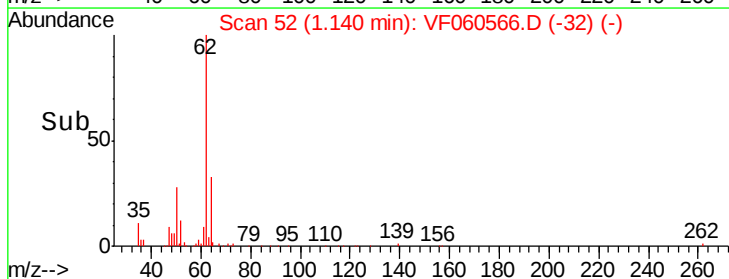
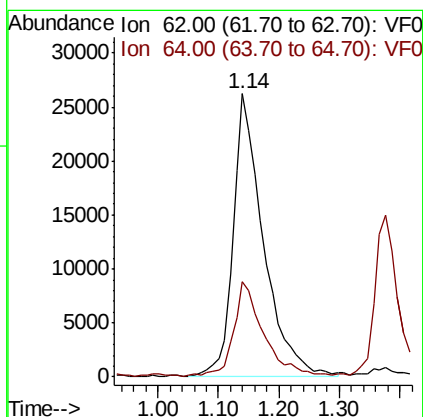
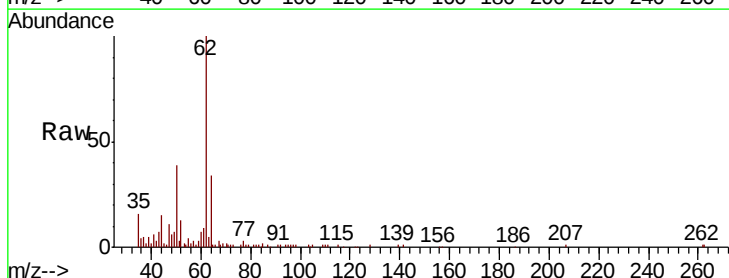
Acq: 2 Nov 2018 18:16

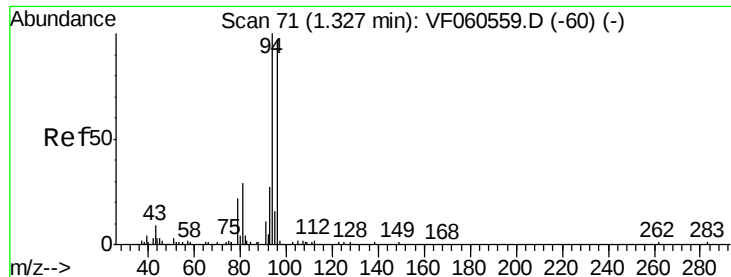
Tgt Ion: 62 Resp: 91504

Ion Ratio Lower Upper

62 100

64 33.8 21.8 32.6#





#5

Bromomethane

Concen: 49.622 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

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ClientSampleId :

ICVVF110218

Tot Ion: 94 Resp: 59119

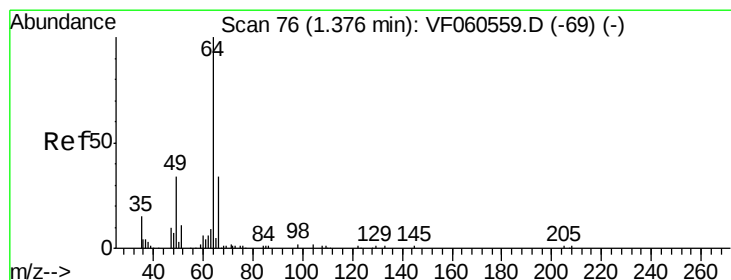
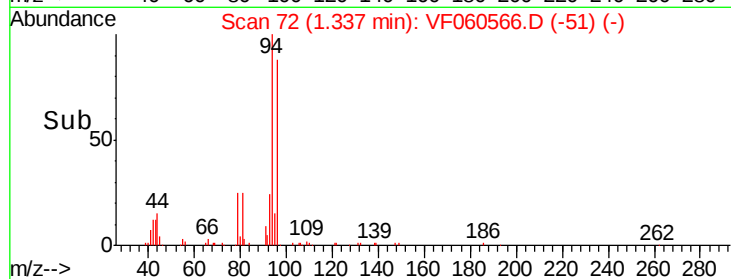
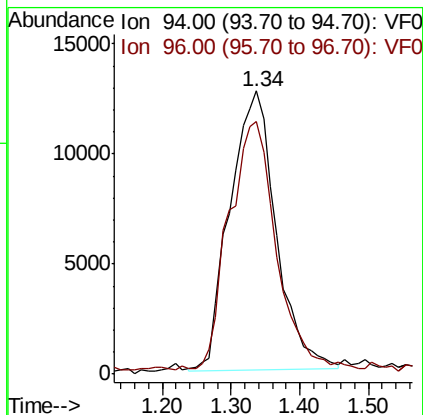
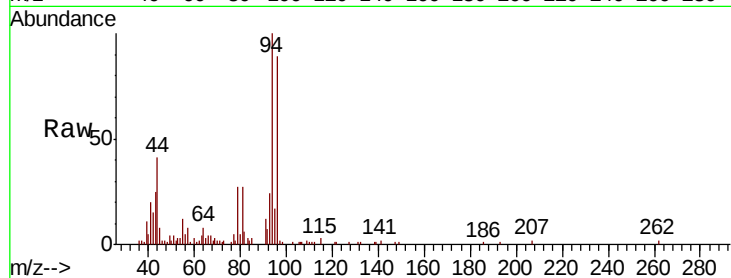
Ion Ratio Lower Upper

94 100

96 89.2 77.9 116.9

Manual Integrations
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#6

Chloroethane

Concen: 51.589 ug/l

RT: 1.38 min Scan# 76

Delta R.T. 0.00 min

Lab File: VF060566.D

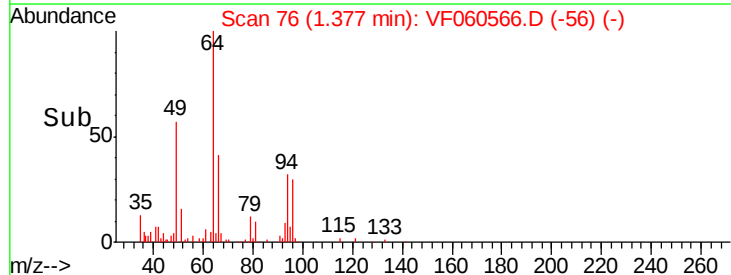
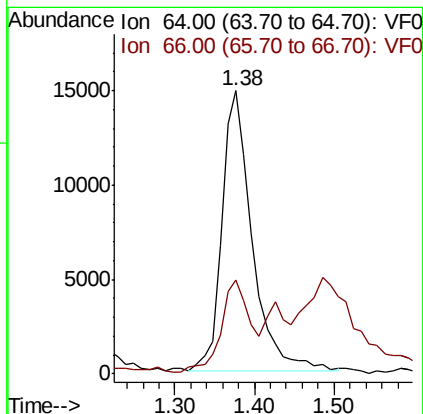
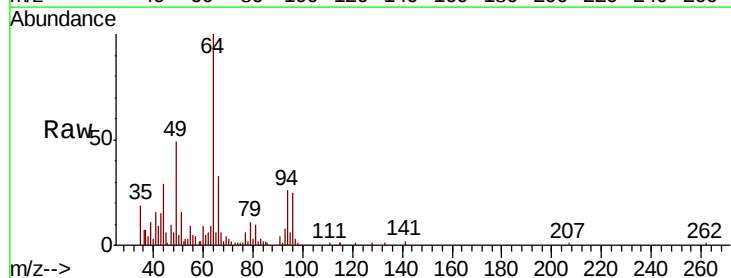
Acq: 2 Nov 2018 18:16

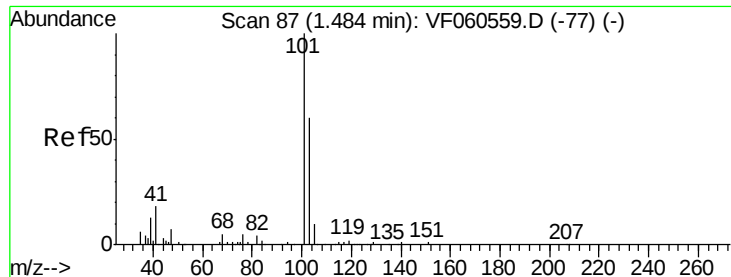
Tgt Ion: 64 Resp: 39430

Ion Ratio Lower Upper

64 100

66 33.0 27.8 41.8





#7

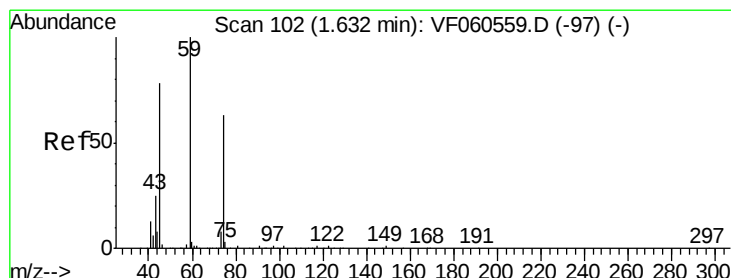
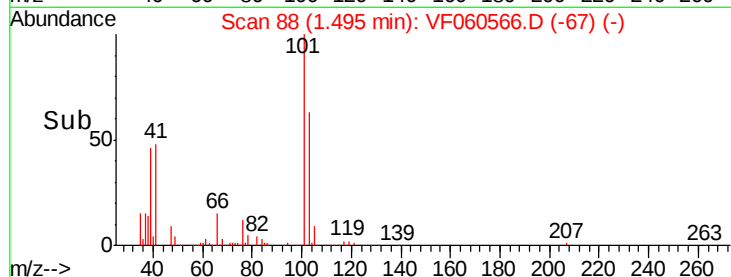
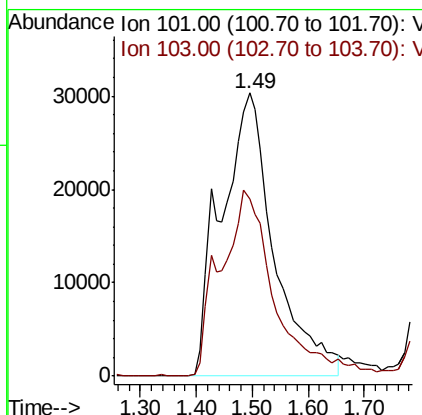
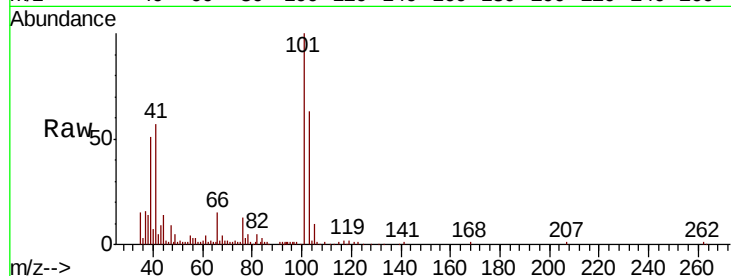
Trichlorofluoromethane
 Concen: 50.209 ug/l
 RT: 1.49 min Scan# 88
 Delta R.T. 0.01 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.6	48.0	72.0

Manual Integrations
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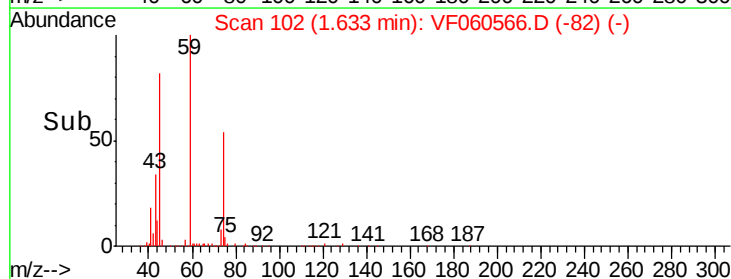
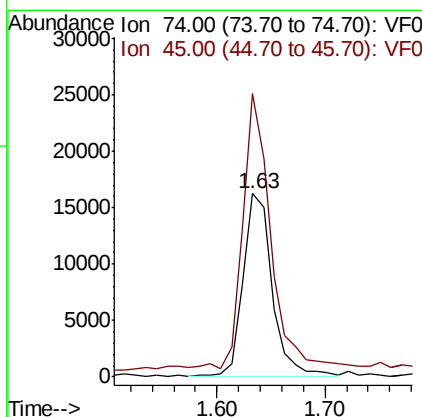
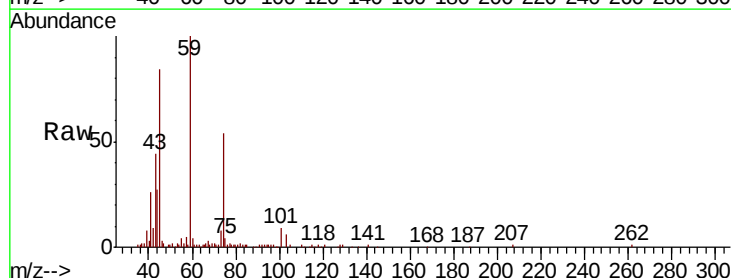
MMDadoda
 11/5/2018 3:55:40 PM

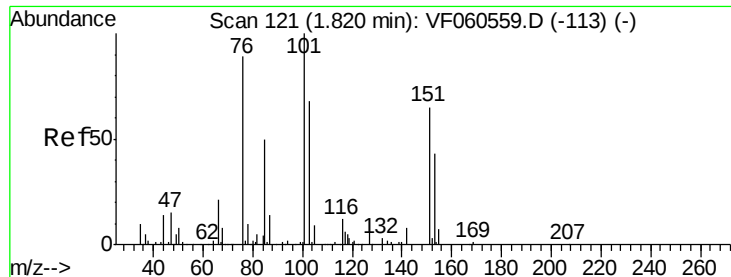


#8

Diethyl Ether
 Concen: 41.583 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. 0.00 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	154.7	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.173 ug/l

RT: 1.82 min Scan# 121

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

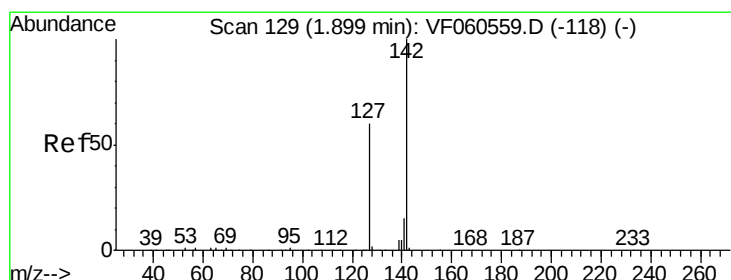
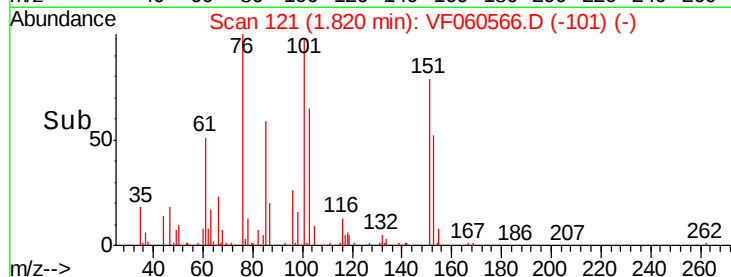
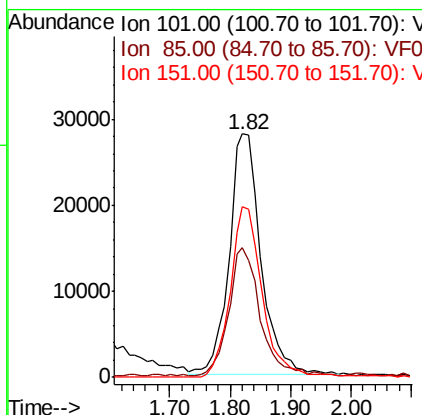
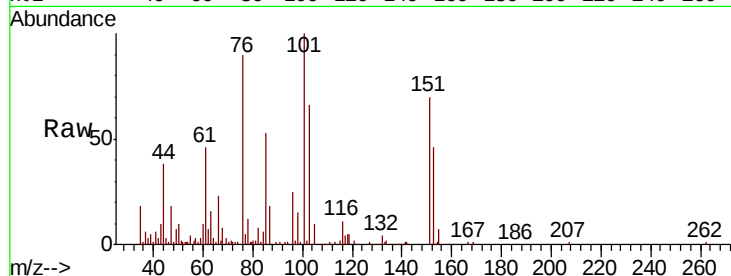
ClientSampleId :

ICVVF110218

Tot Ion:	101	Resp:	102546
Ion Ratio	Lower	Upper	
101	100		
85	53.5	39.8	59.6
151	70.0	50.8	76.2

Manual Integrations
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11/5/2018 3:55:40 PM



#10

Methyl Iodide

Concen: 45.574 ug/l

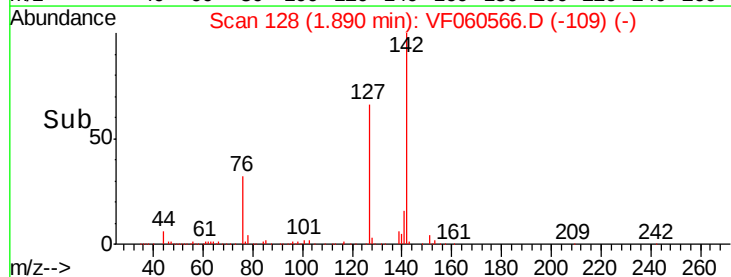
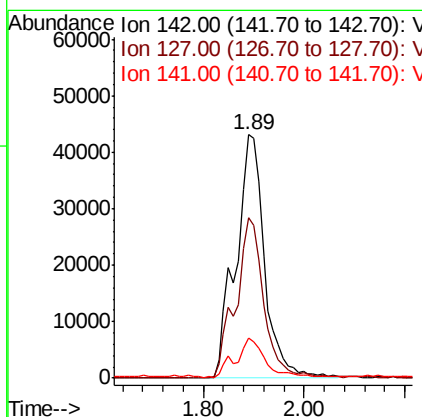
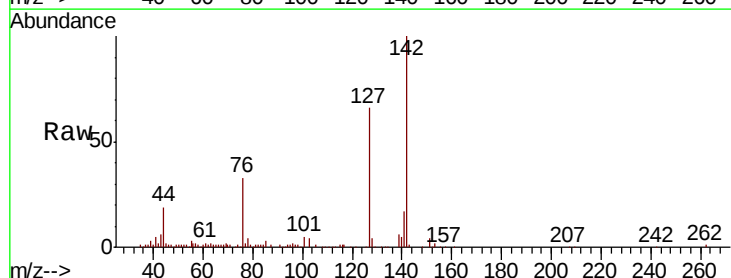
RT: 1.89 min Scan# 128

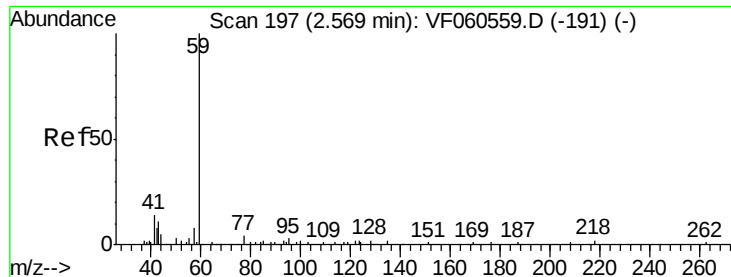
Delta R.T. -0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Tgt Ion:	142	Resp:	170247
Ion Ratio	Lower	Upper	
142	100		
127	66.1	47.8	71.6
141	16.6	12.7	19.1





#11

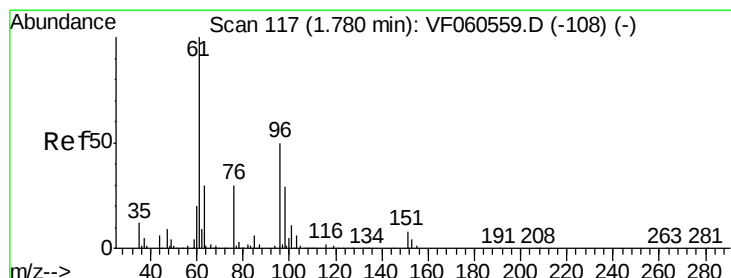
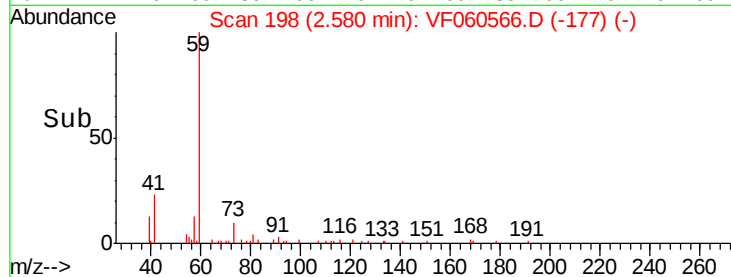
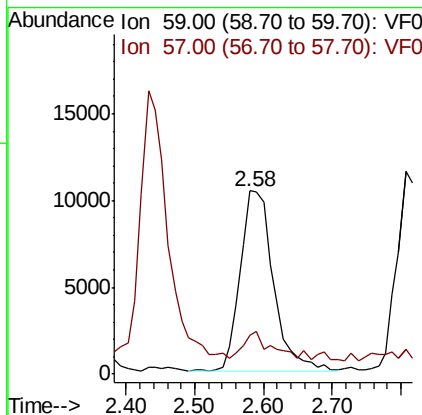
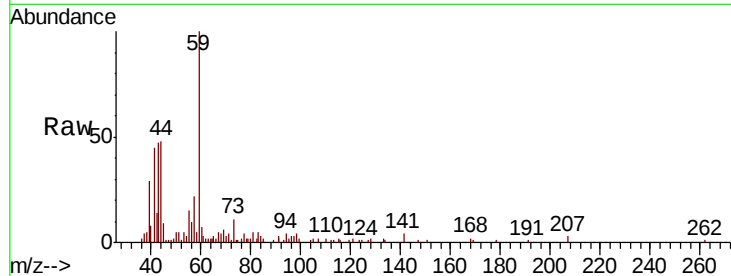
Tert butyl alcohol
Concen: 252.790 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Lower	Upper
59	100		
57	21.5	19.0	28.4

Manual Integrations
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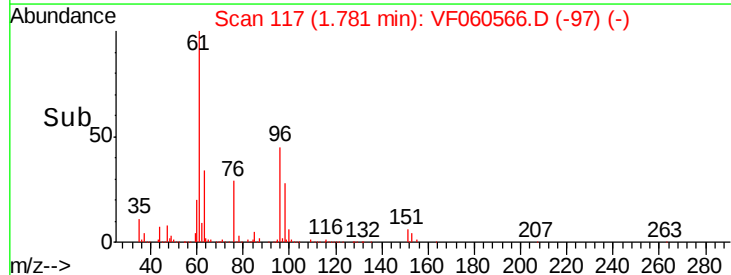
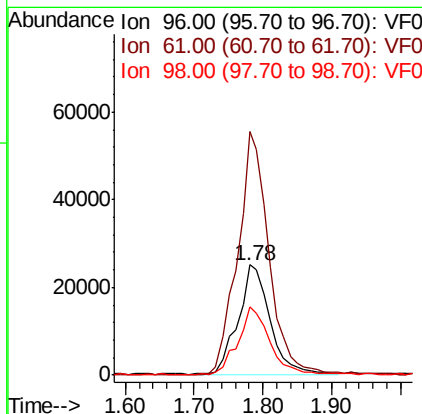
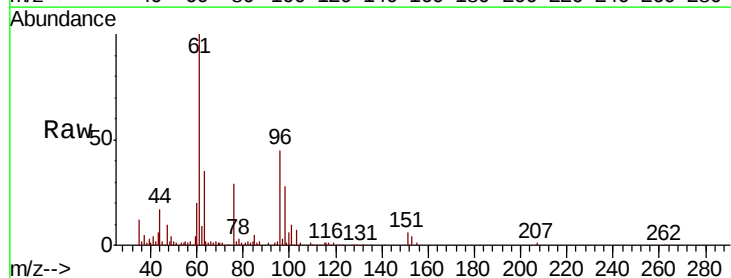
MMDadoda
11/5/2018 3:55:40 PM

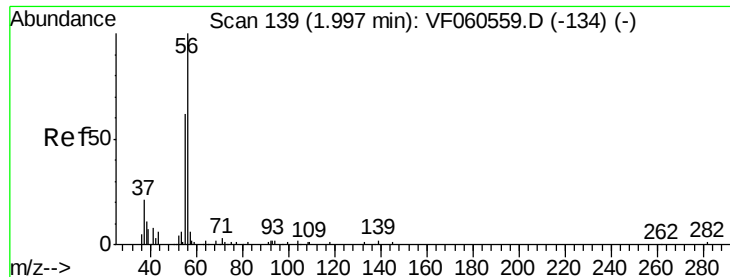


#12

1,1-Dichloroethene
Concen: 41.811 ug/l
RT: 1.78 min Scan# 117
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
96	100		
61	220.6	158.1	237.1
98	61.5	47.0	70.6





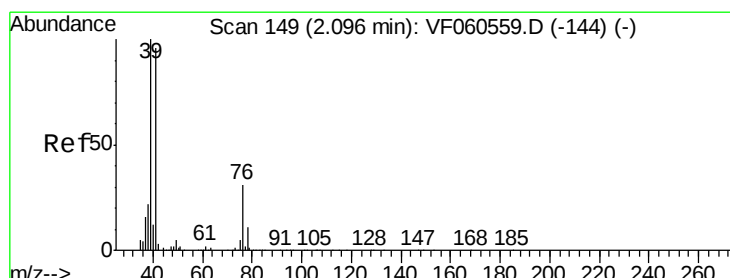
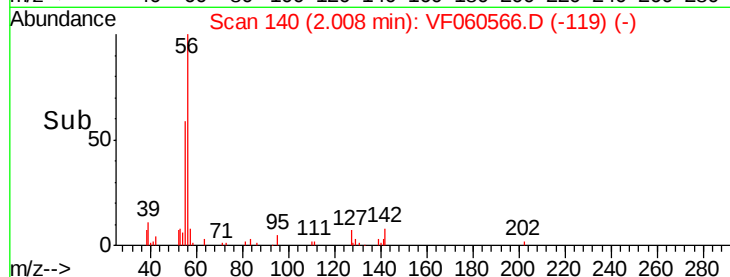
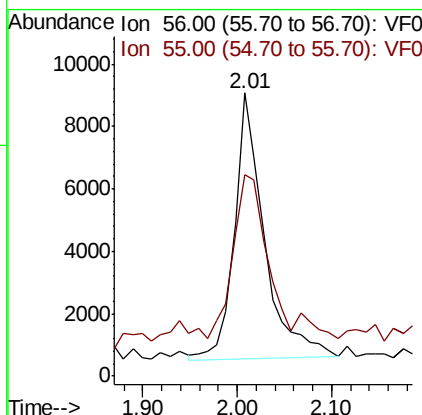
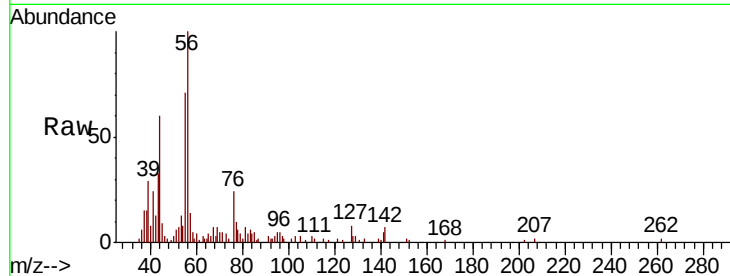
#13
Acrolein
Concen: 207.366 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	56	Resp	18587
Ion Ratio	100	Lower	Upper
56	100	61.8	92.6
55	71.0		

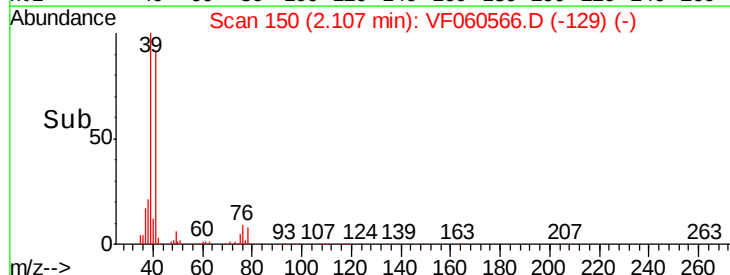
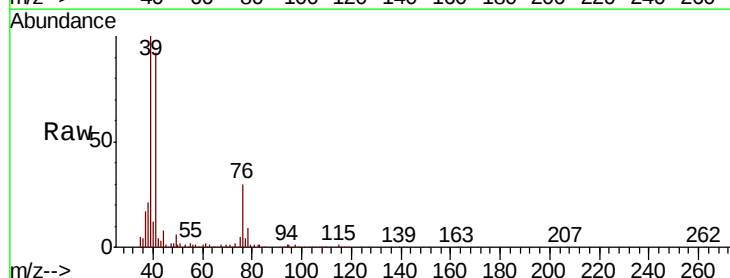
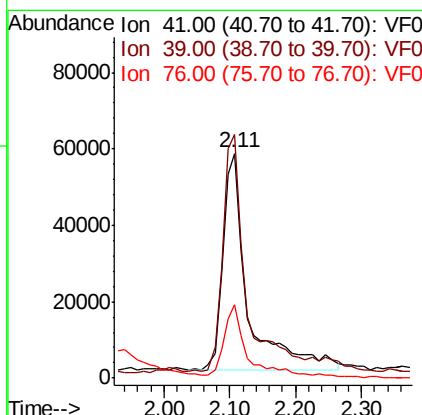
Manual Integrations
APPROVED

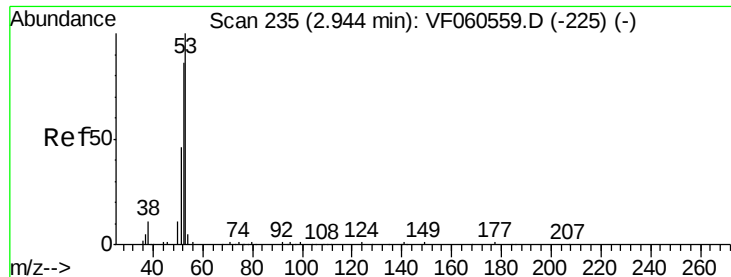
MMDadoda
11/5/2018 3:55:40 PM



#14
Allyl chloride
Concen: 48.479 ug/l
RT: 2.11 min Scan# 150
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	41	Resp	151347
Ion Ratio	100	Lower	Upper
41	100	82.6	124.0
39	108.5	26.7	40.1
76	32.9		





#15

Acrylonitrile

Concen: 222.658 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

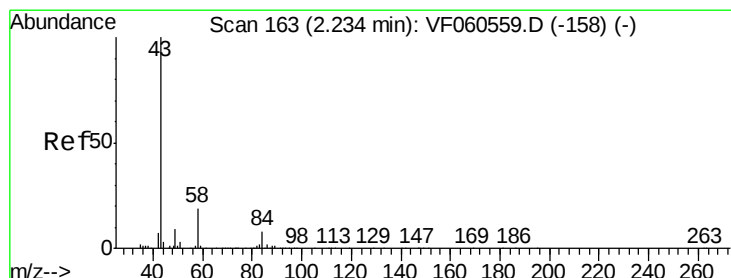
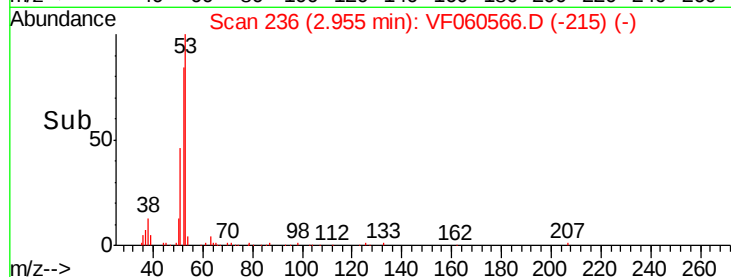
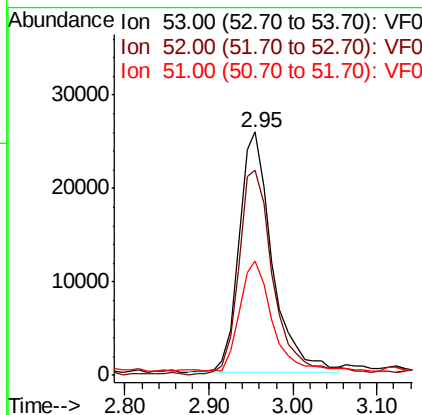
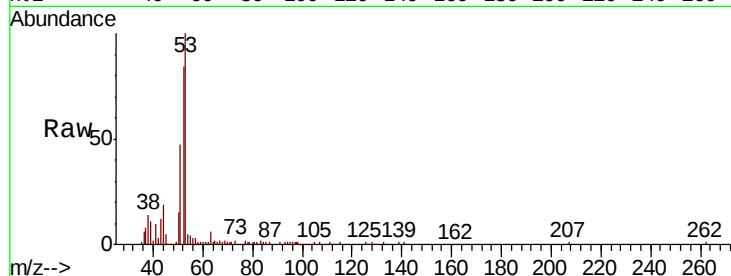
ClientSampleId :

ICVVF110218

Tot Ion:	53	Resp:	70563
Ion	Ratio	Lower	Upper
53	100		
52	84.1	68.5	102.7
51	47.1	38.2	57.2

Manual Integrations
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#16

Acetone

Concen: 233.806 ug/l

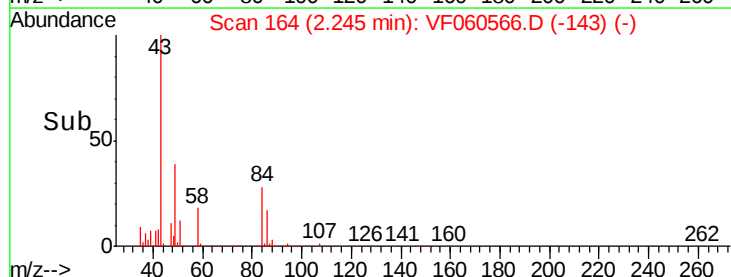
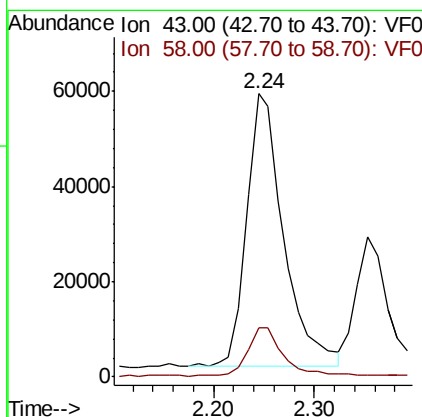
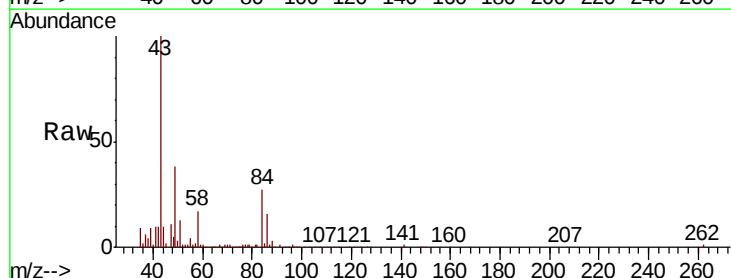
RT: 2.24 min Scan# 164

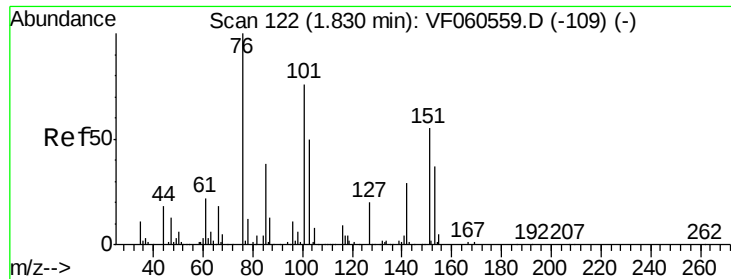
Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Tgt Ion:	43	Resp:	146501
Ion	Ratio	Lower	Upper
43	100		
58	17.3	14.6	22.0





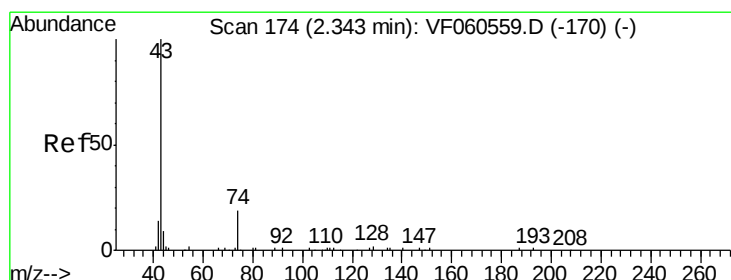
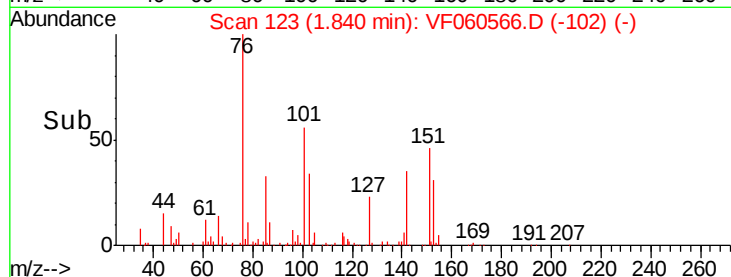
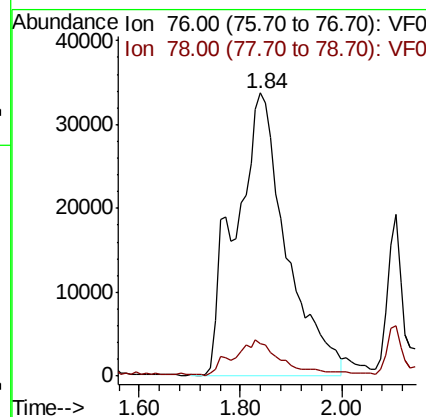
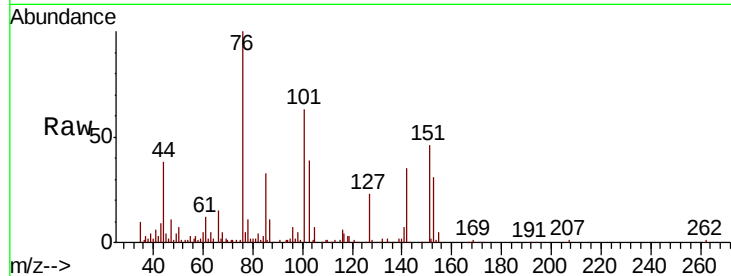
#17
Carbon Disulfide
Concen: 43.690 ug/l m
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion: 76 Resp: 235299
Ion Ratio Lower Upper
76 100
78 11.4 9.9 14.9

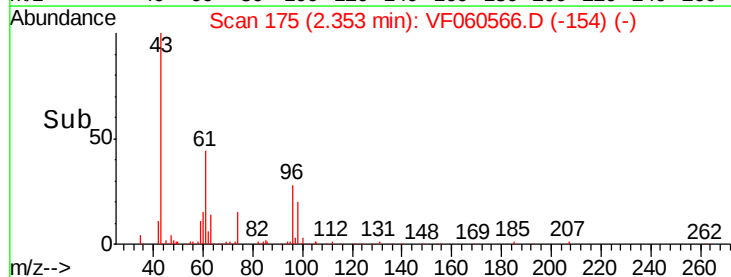
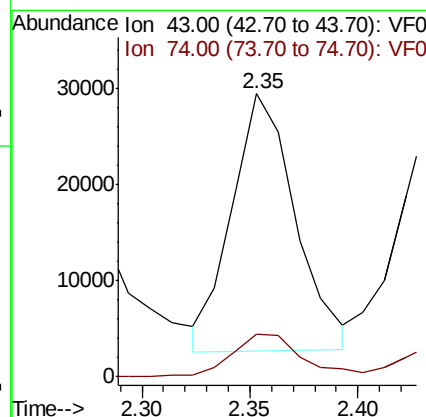
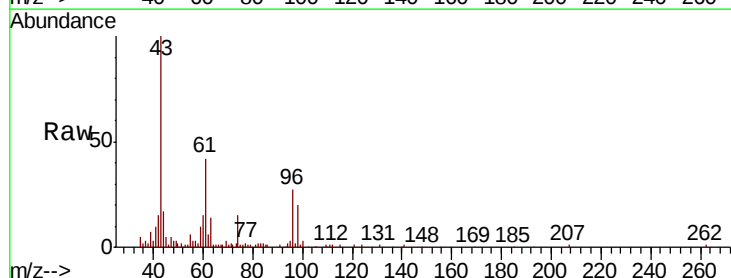
Manual Integrations
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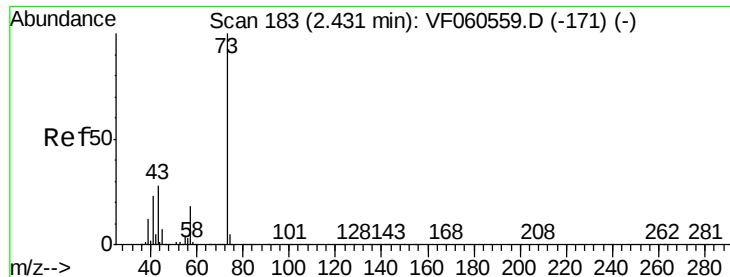
MMDadoda
11/5/2018 3:55:40 PM



#18
Methyl Acetate
Concen: 56.020 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion: 43 Resp: 54581
Ion Ratio Lower Upper
43 100
74 15.0 12.1 18.1





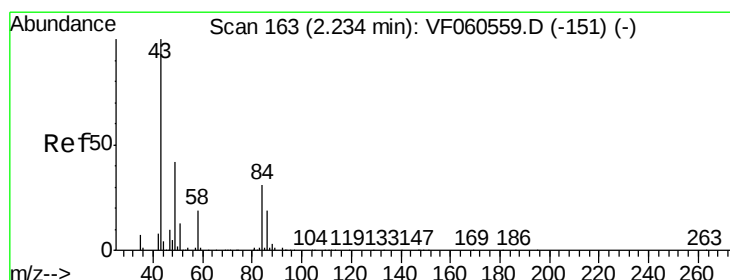
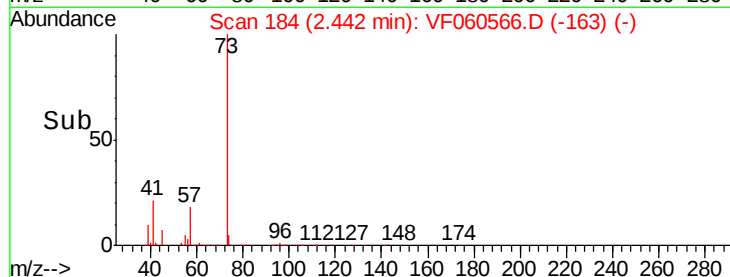
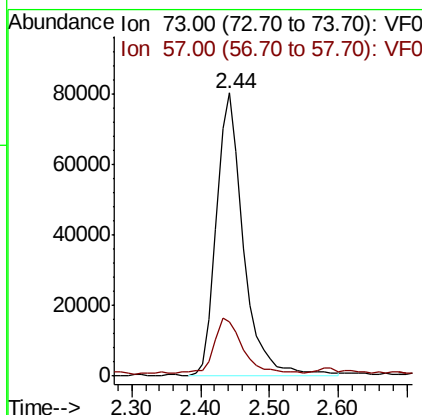
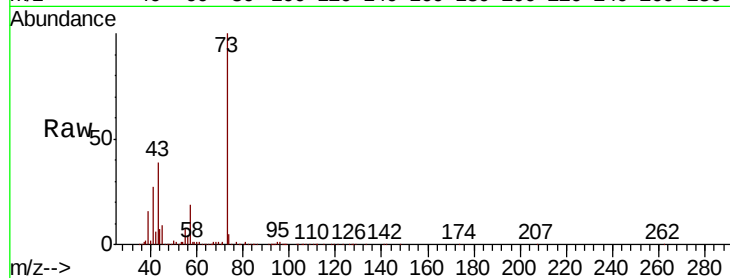
#19
Methyl tert-butyl Ether
Concen: 48.465 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion: 73 Resp: 216611
Ion Ratio Lower Upper
73 100
57 19.0 15.4 23.0

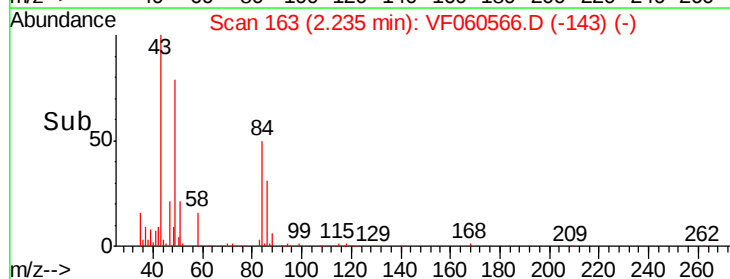
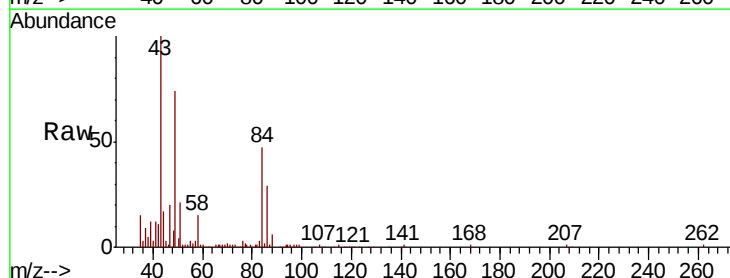
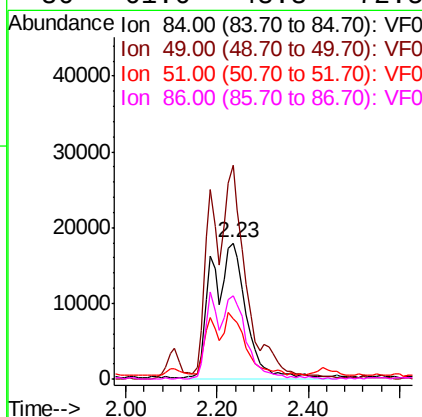
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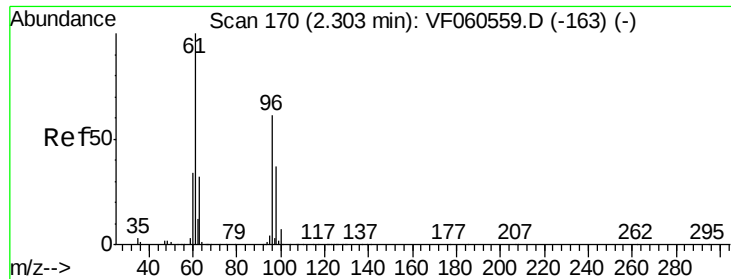
MMDadoda
11/5/2018 3:55:40 PM



#20
Methylene Chloride
Concen: 51.798 ug/l m
RT: 2.23 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion: 84 Resp: 95868
Ion Ratio Lower Upper
84 100
49 157.1 109.9 164.9
51 44.6 35.8 53.8
86 61.6 48.3 72.5





#21

trans-1,2-Dichloroethene

Concen: 48.211 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

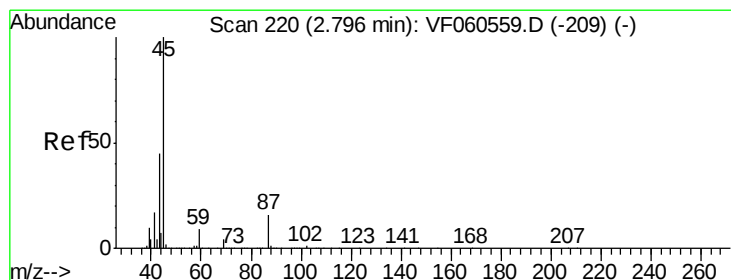
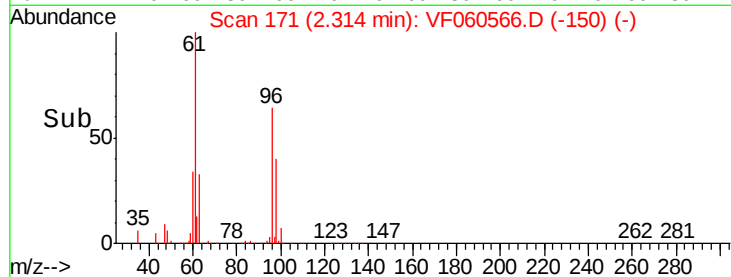
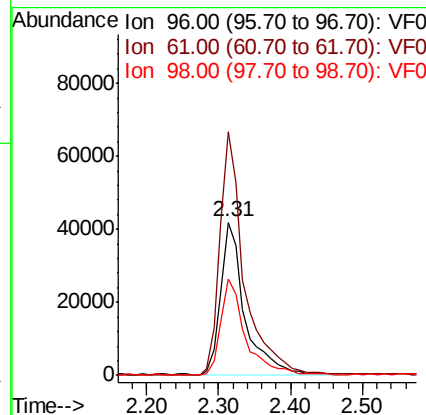
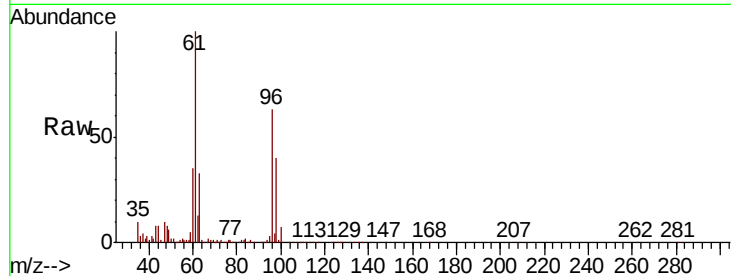
ClientSampleId :

ICVVF110218

Tot Ion:	96	Resp:	96704
Ion	Ratio	Lower	Upper
96	100		
61	159.2	131.3	196.9
98	62.9	48.6	73.0

Manual Integrations
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11/5/2018 3:55:40 PM



#22

Diisopropyl ether

Concen: 48.027 ug/l

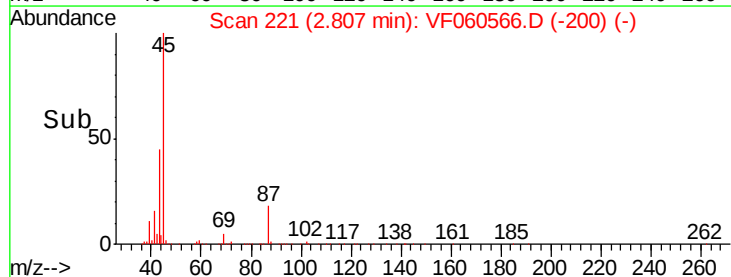
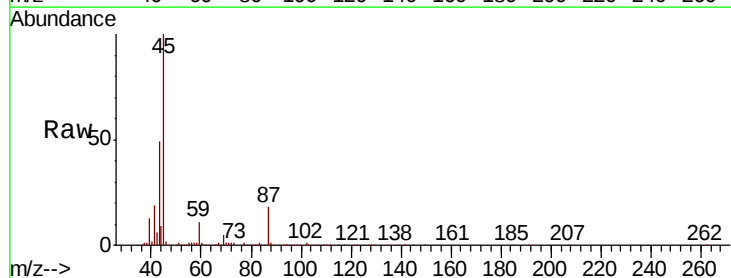
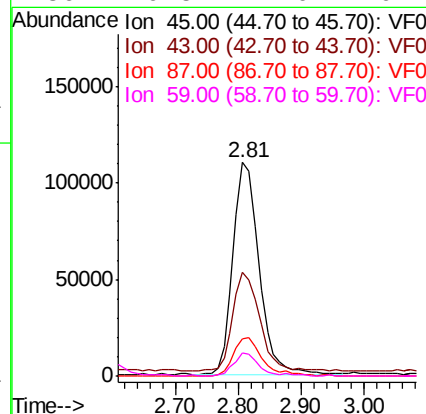
RT: 2.81 min Scan# 221

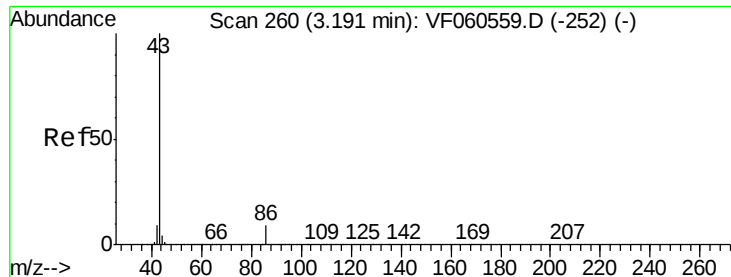
Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Tgt Ion:	45	Resp:	317671
Ion	Ratio	Lower	Upper
45	100		
43	48.6	38.1	57.1
87	17.6	12.7	19.1
59	10.5	7.0	10.4





#23

Vinyl Acetate

Concen: 234.987 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion: 43 Resp: 933872

Ion Ratio Lower Upper

43 100

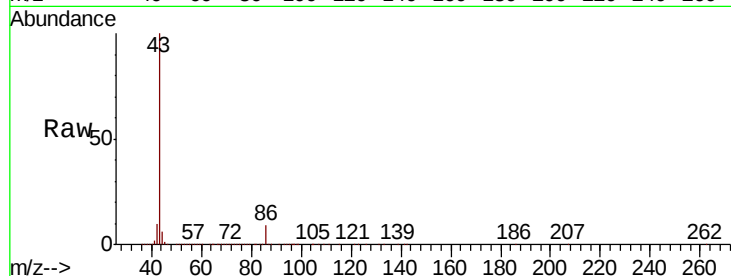
86 8.5 7.1 10.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.20

400000

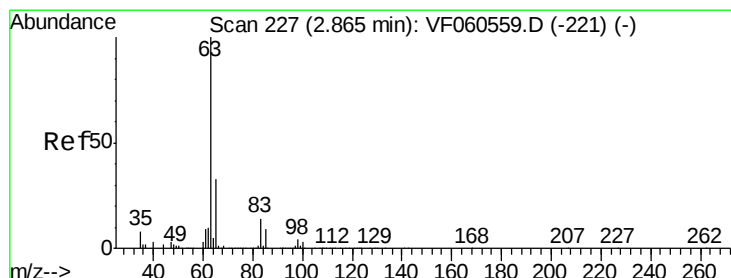
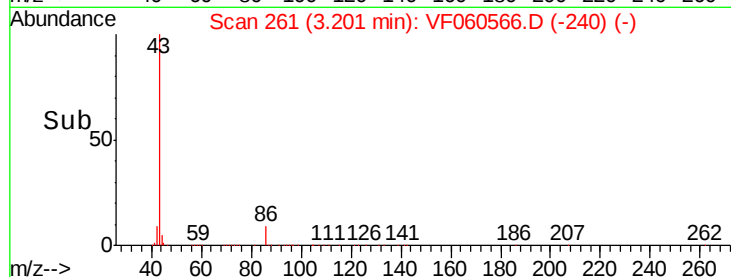
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 47.674 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

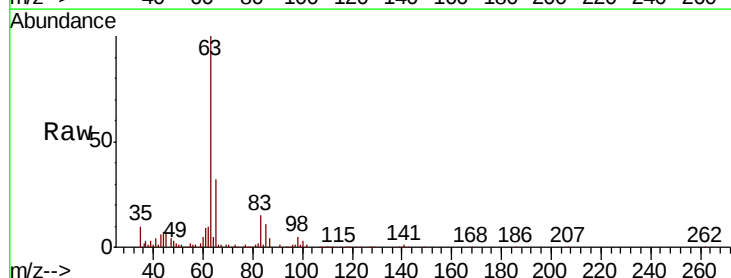
Tgt Ion: 63 Resp: 182496

Ion Ratio Lower Upper

63 100

98 4.8 2.2 6.6

100 3.1 1.4 4.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.88

80000

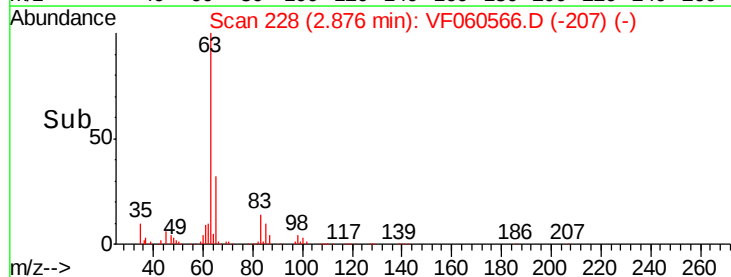
60000

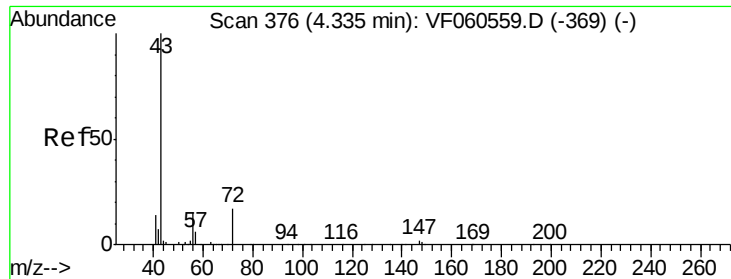
40000

20000

0

Time-->





#25

2-Butanone

Concen: 249.278 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion: 43 Resp: 293885

Ion Ratio Lower Upper

43 100

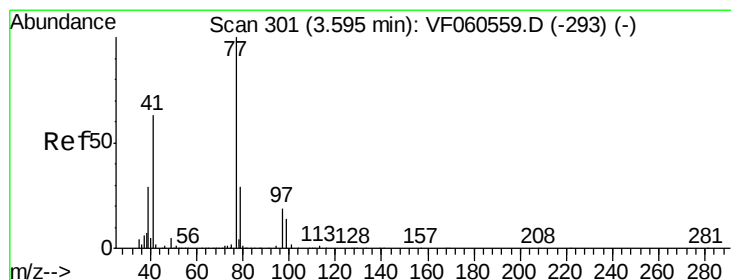
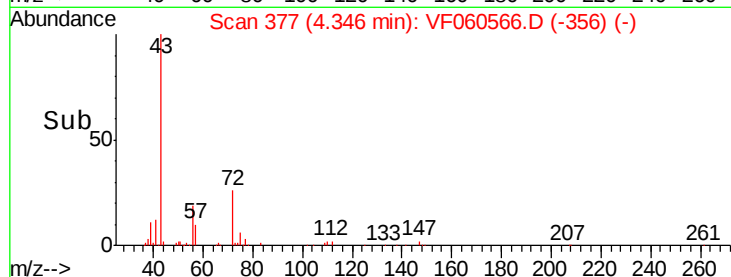
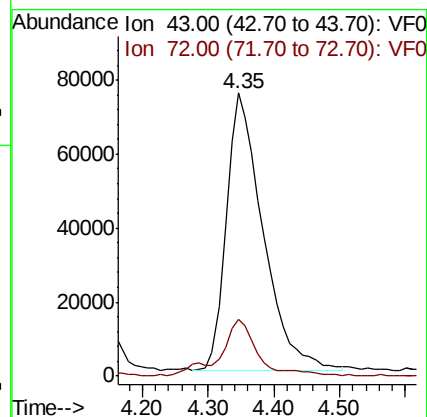
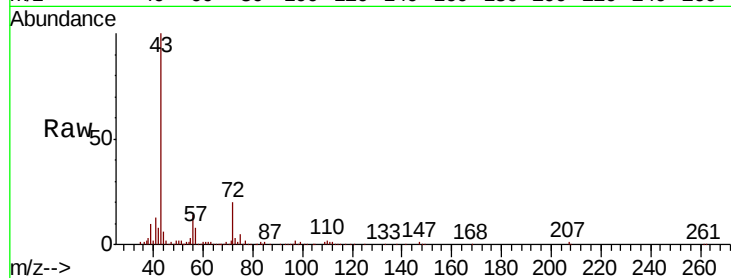
72 20.2 16.2 24.2

Manual Integrations

APPROVED

MMDadoda

11/5/2018 3:55:40 PM



#26

2,2-Dichloropropane

Concen: 47.018 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.01 min

Lab File: VF060566.D

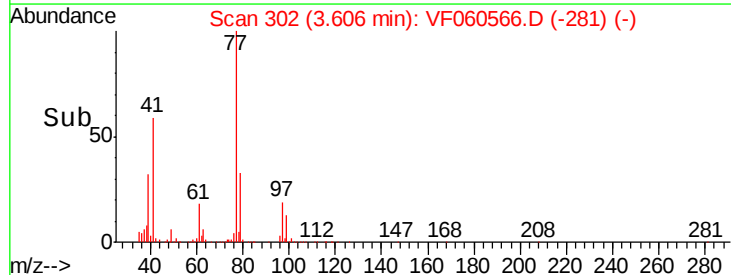
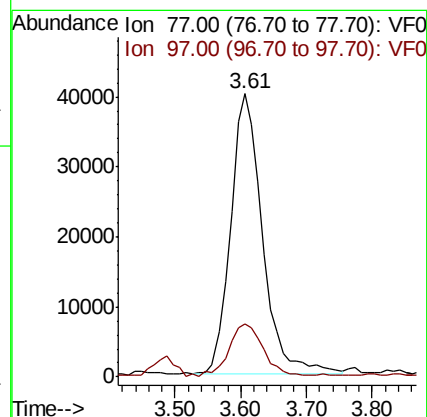
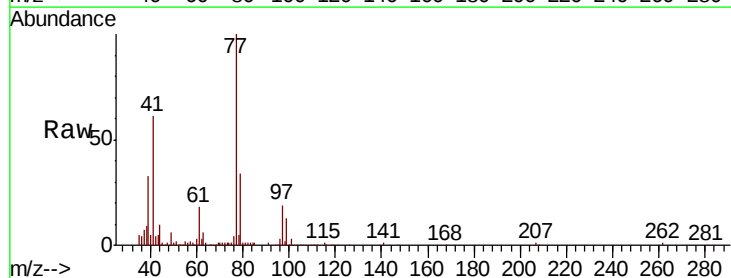
Acq: 2 Nov 2018 18:16

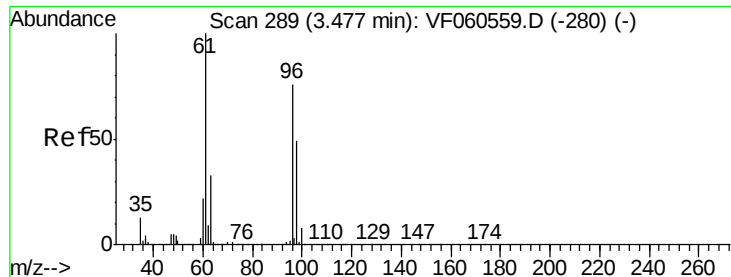
Tgt Ion: 77 Resp: 134675

Ion Ratio Lower Upper

77 100

97 18.9 9.8 29.3





#27

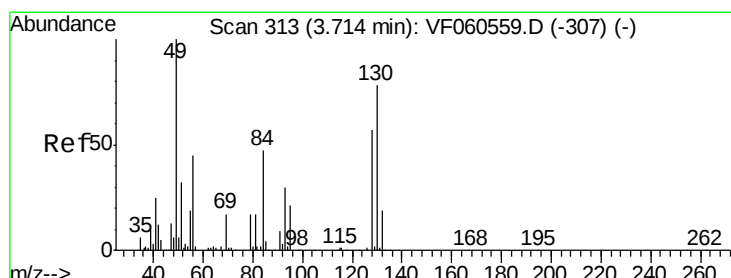
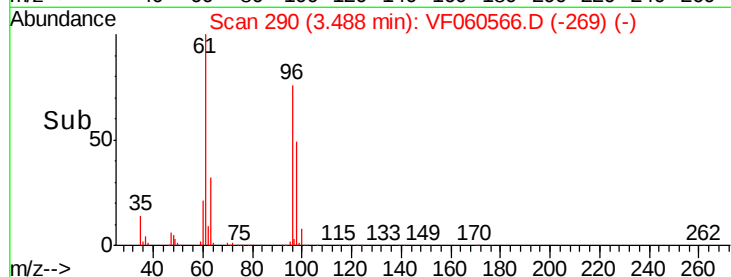
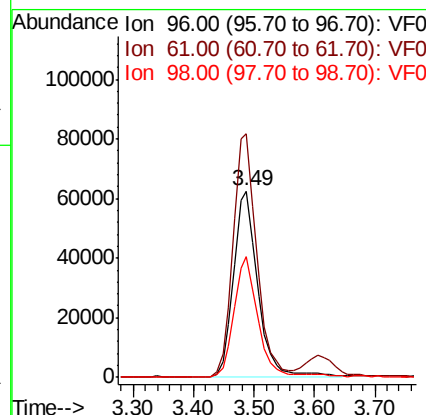
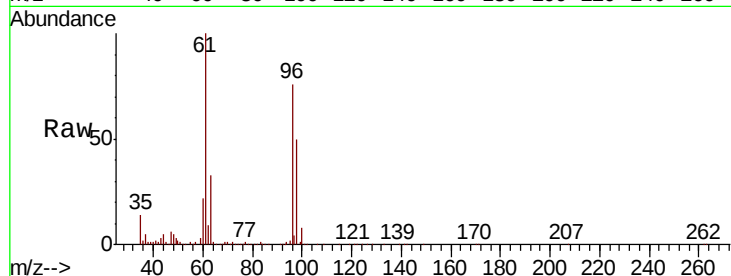
cis-1,2-Dichloroethene
 Concen: 45.190 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. 0.01 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF110218

Tot Ion	Ratio	Resp	Lower	Upper
96	100	173040		
61	130.8	0.0	263.0	
98	64.9	0.0	130.6	

Manual Integrations
 APPROVED

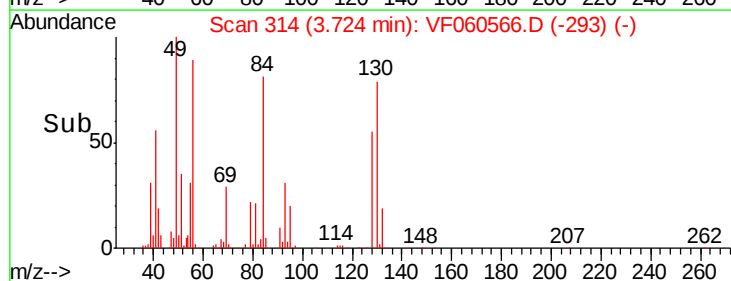
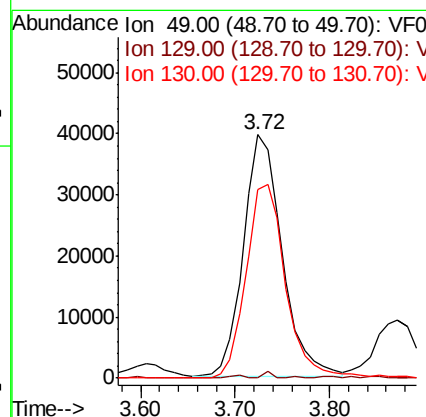
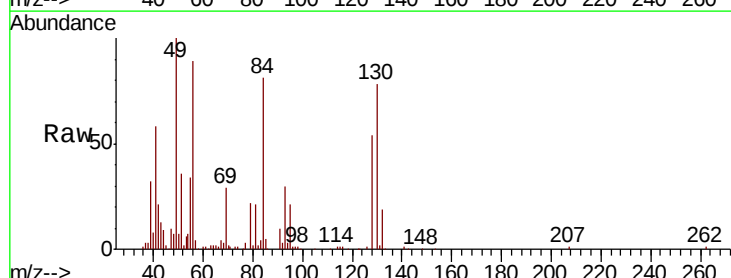
MMDadoda
 11/5/2018 3:55:40 PM

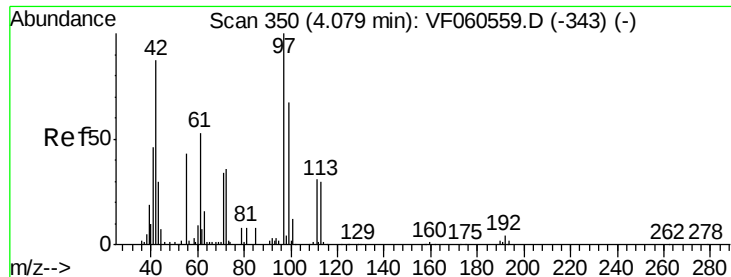


#28

Bromochloromethane
 Concen: 46.404 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	111476		
129	0.0	0.0	4.6	
130	77.6	61.8	92.8	





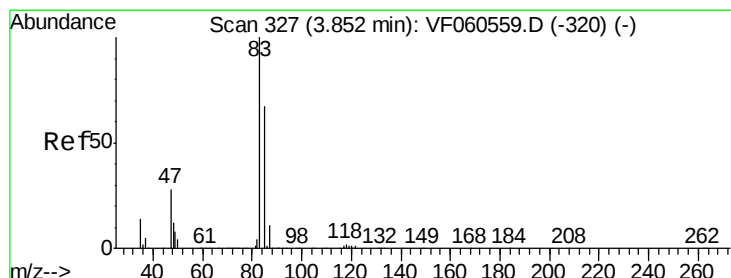
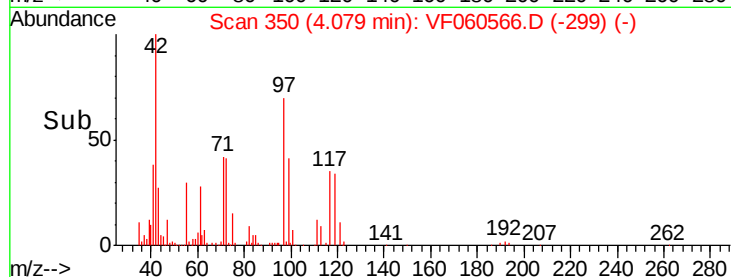
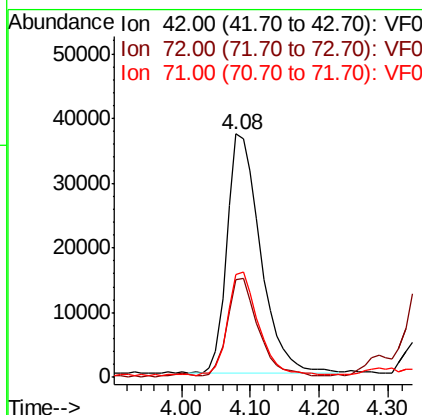
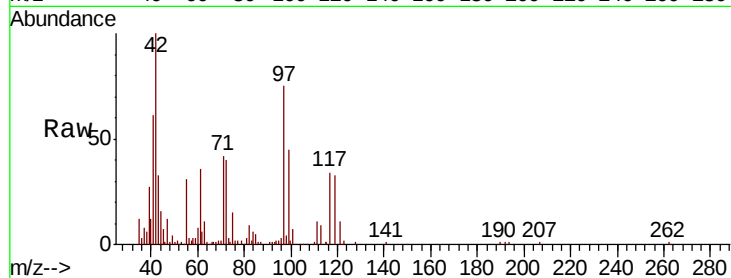
#29
Tetrahydrofuran
Concen: 271.024 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion:	42	Resp:	125219
Ion	Ratio	Lower	Upper
42	100		
72	38.5	31.4	47.0
71	39.5	31.8	47.6

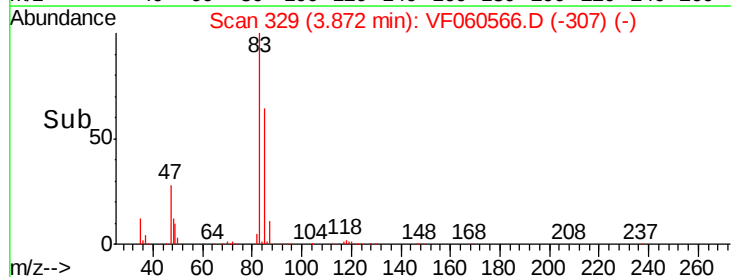
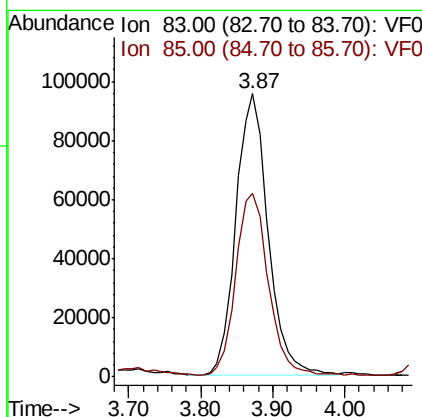
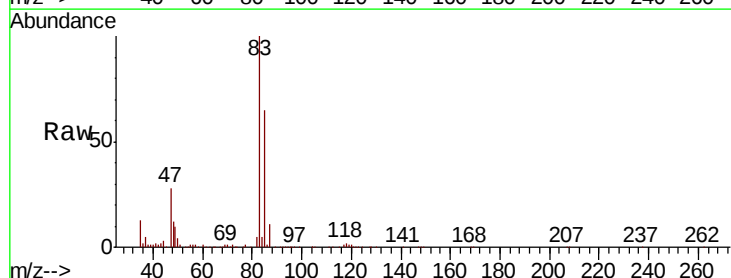
Manual Integrations
APPROVED

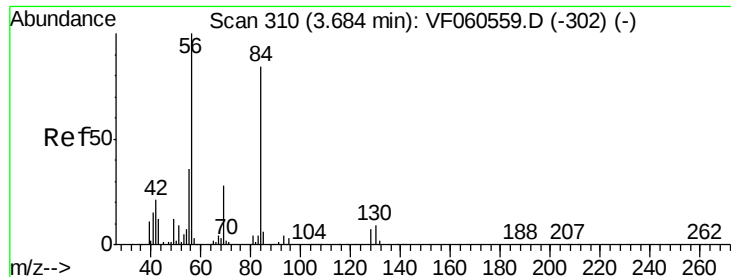
MMDadoda
11/5/2018 3:55:40 PM



#30
Chloroform
Concen: 49.135 ug/l
RT: 3.87 min Scan# 329
Delta R.T. 0.02 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion:	83	Resp:	297578
Ion	Ratio	Lower	Upper
83	100		
85	64.8	53.7	80.5





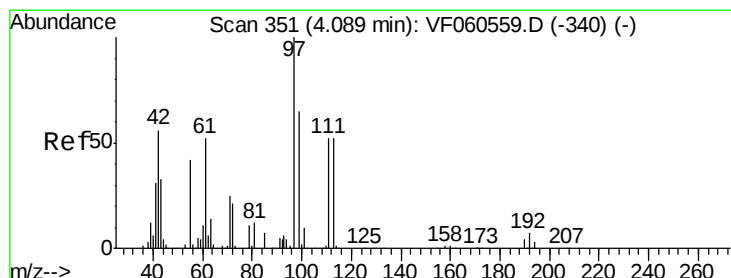
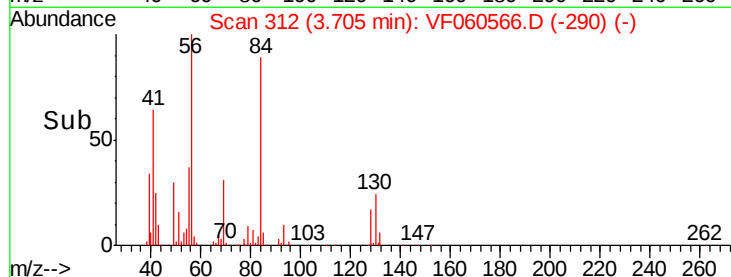
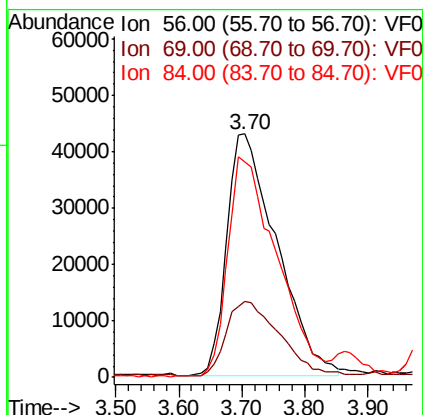
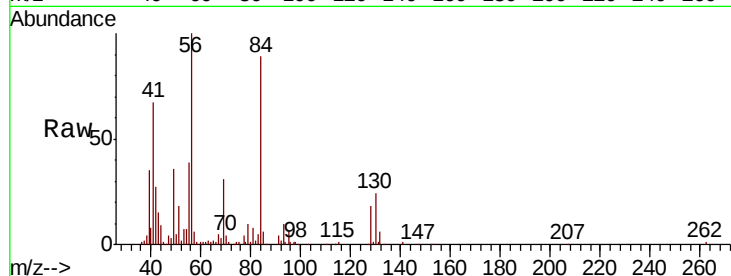
#31
Cyclohexane
Concen: 44.669 ug/l
RT: 3.70 min Scan# 312
Delta R.T. 0.02 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.3	23.0	34.4
84	88.7	67.1	100.7

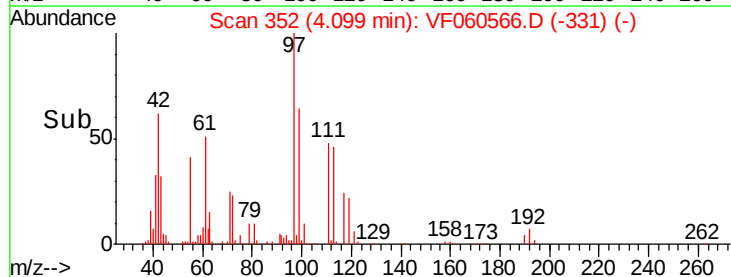
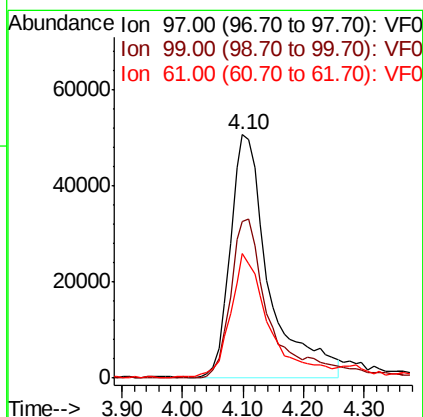
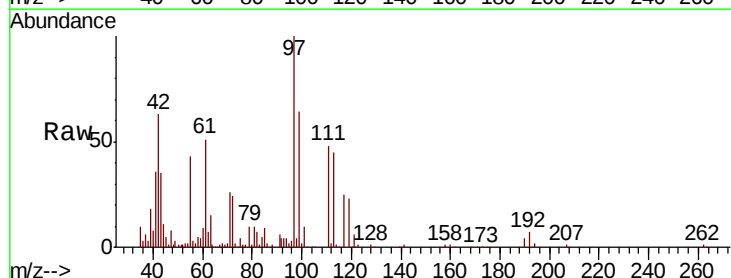
Manual Integrations
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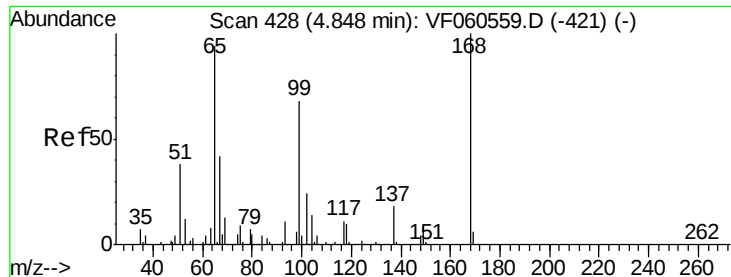
MMDadoda
11/5/2018 3:55:40 PM



#32
1,1,1-Trichloroethane
Concen: 53.077 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.4	78.6
61	50.9	41.5	62.3





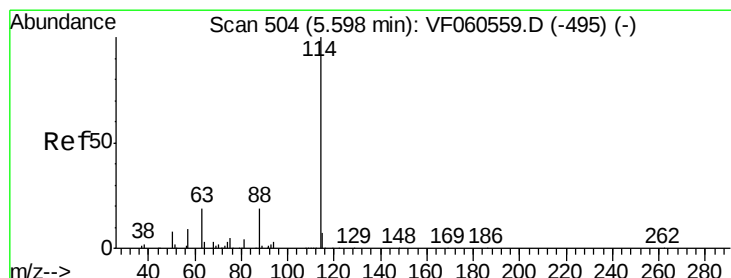
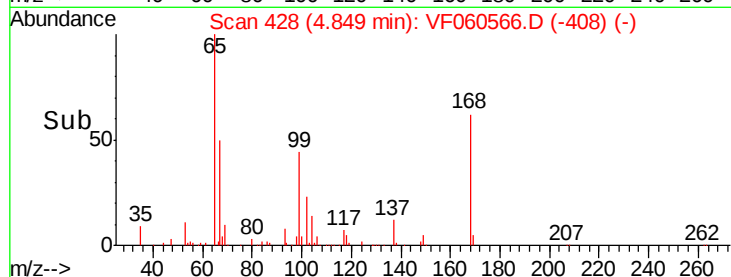
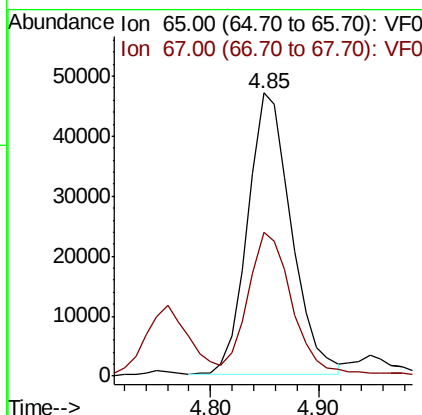
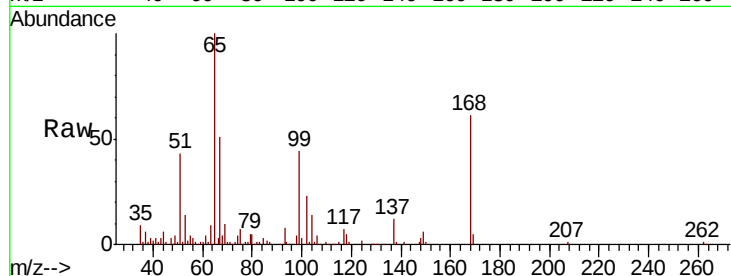
#33
 1,2-Dichloroethane-d4
 Concen: 49.982 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF110218

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	101.8

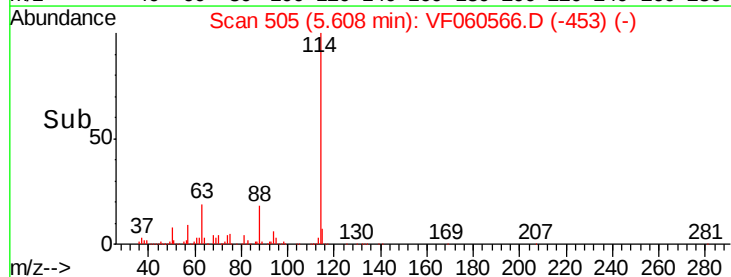
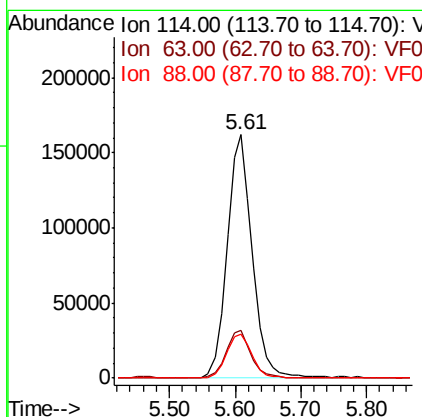
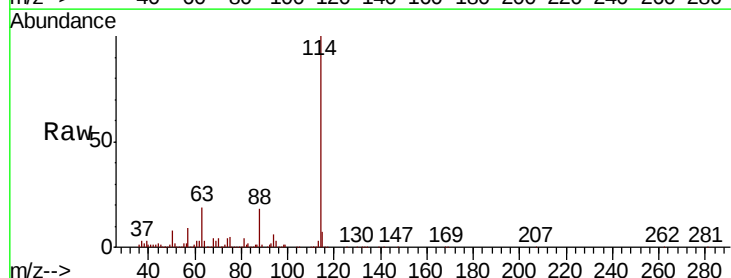
Manual Integrations
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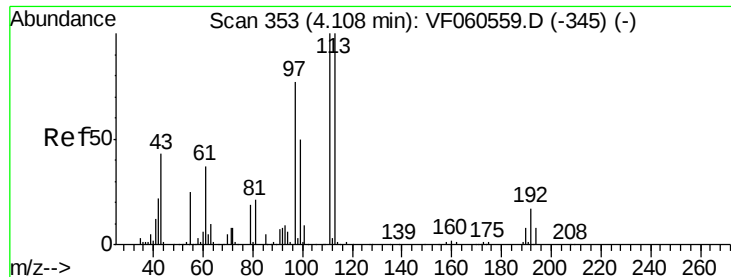
MMDadoda
 11/5/2018 3:55:40 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	39.0
88	17.8	0.0	38.2





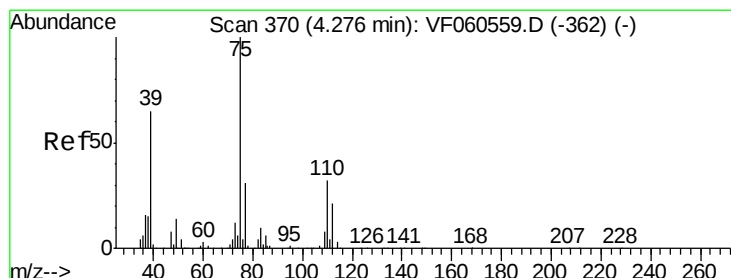
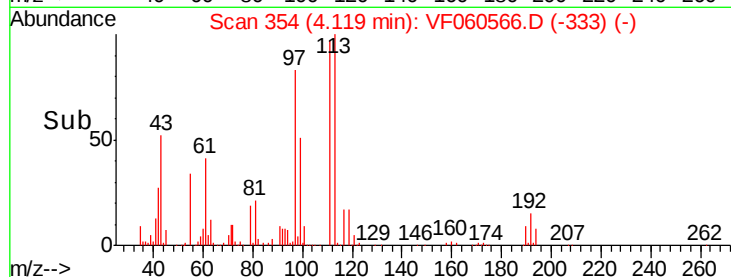
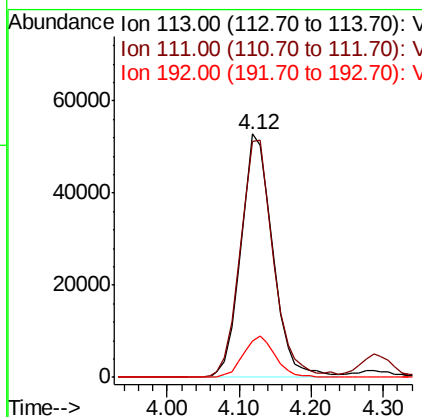
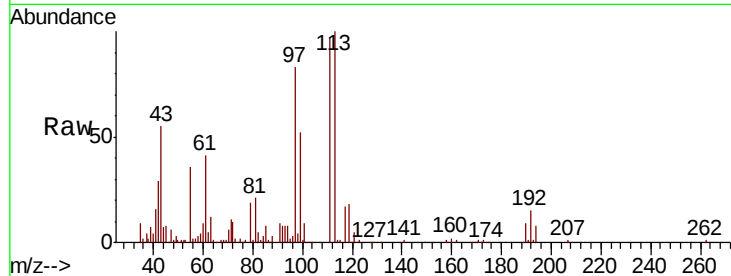
#35
 Dibromofluoromethane
 Concen: 49.189 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF110218

Tot Ion	Ratio	Lower	Upper
113	100		
111	96.7	79.9	119.9
192	14.8	13.3	19.9

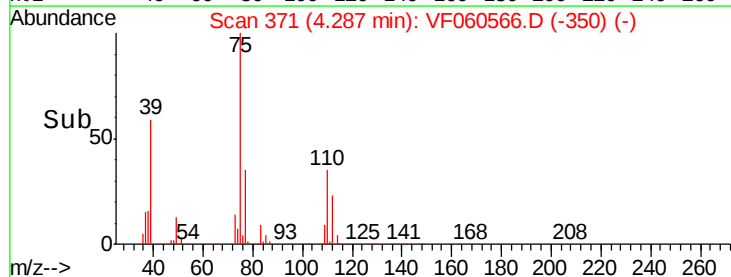
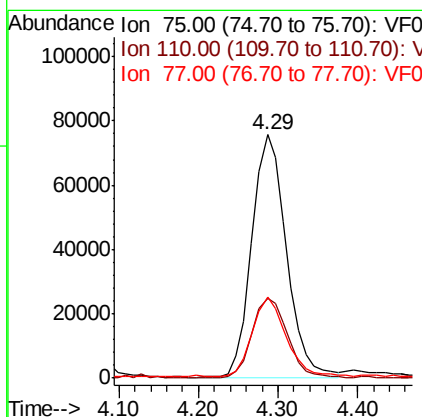
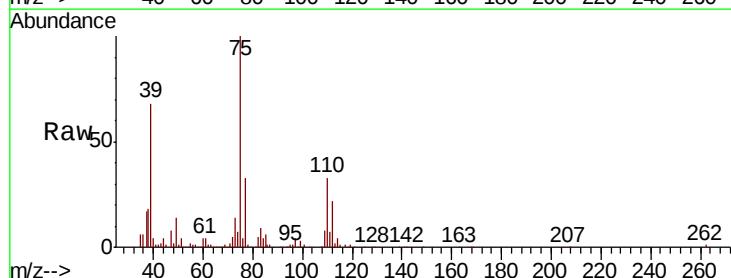
Manual Integrations
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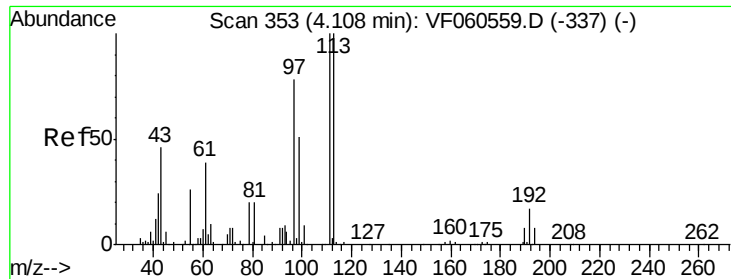
MMDadoda
 11/5/2018 3:55:40 PM



#36
 1,1-Dichloropropene
 Concen: 47.755 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.2	48.6
77	33.3	25.0	37.6





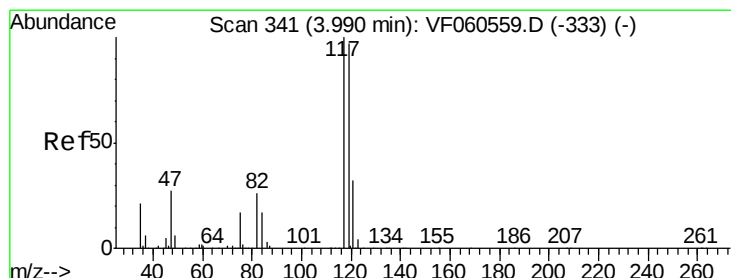
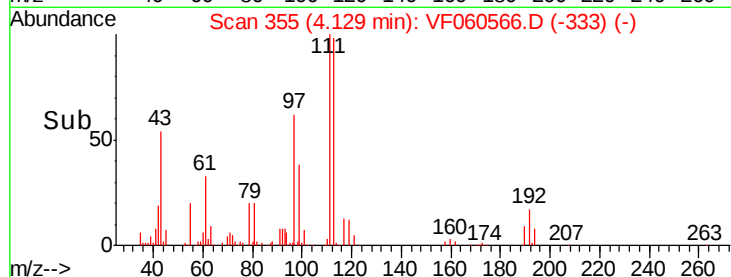
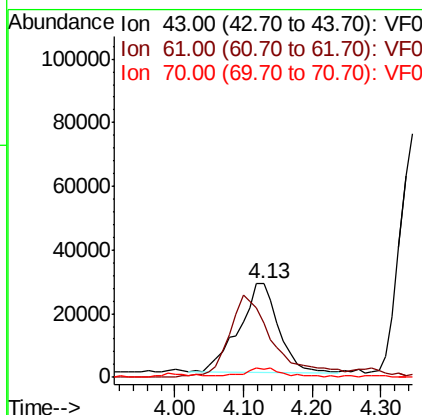
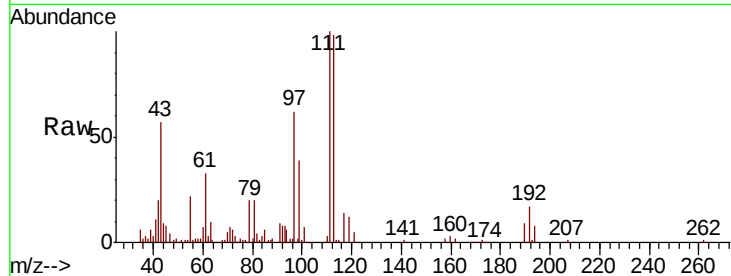
#37
Ethyl Acetate
Concen: 49.267 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.02 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	43	61	70	Ratio	Lower	Upper
112060	100	57.9	8.6			
		63.4	9.3			
		95.2#	13.9#			

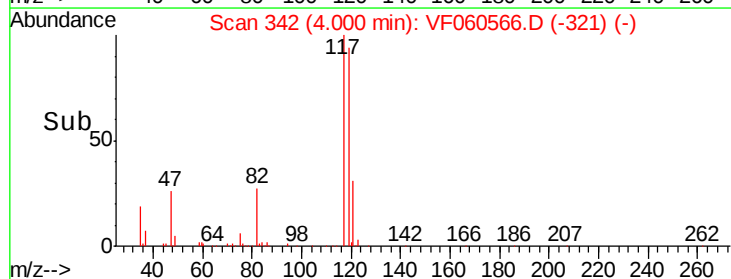
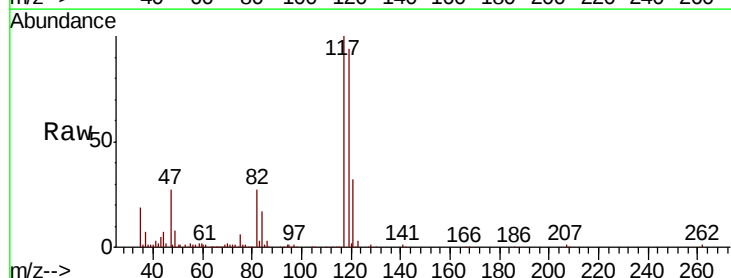
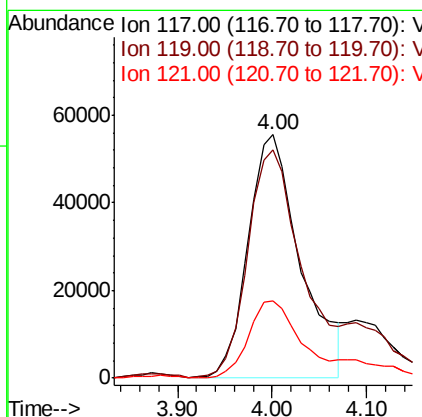
Manual Integrations
APPROVED

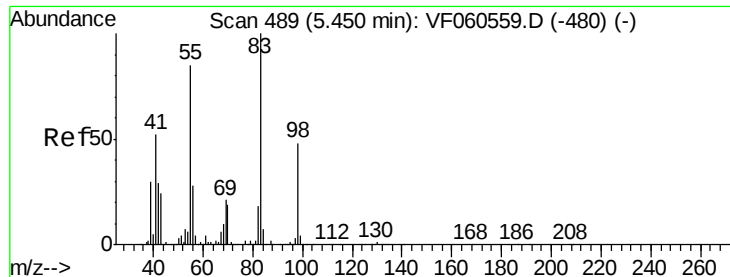
MMDadoda
11/5/2018 3:55:40 PM



#38
Carbon Tetrachloride
Concen: 52.395 ug/l
RT: 4.00 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	117	119	121	Ratio	Lower	Upper
212140	100	93.7	31.8			
		77.8	25.6			
		116.6	38.4			





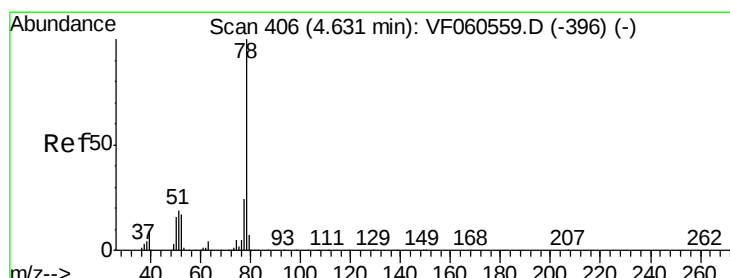
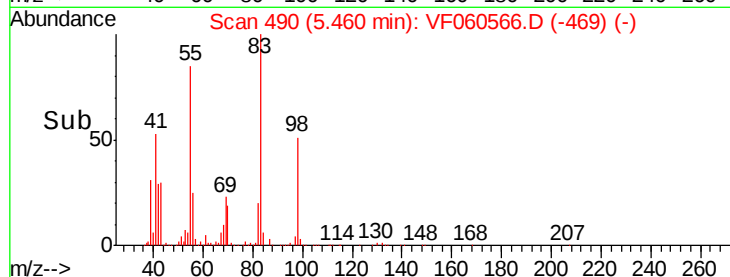
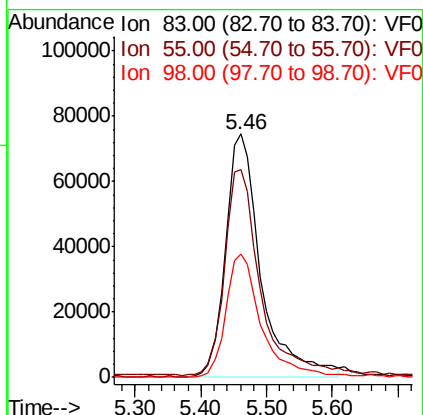
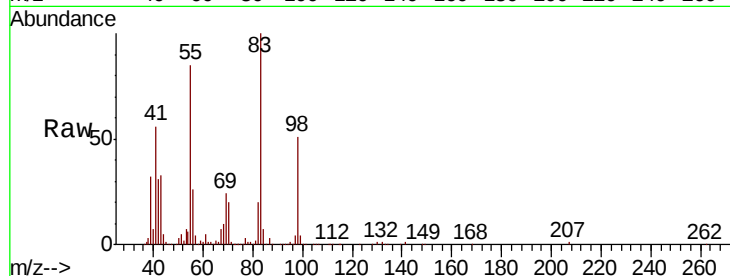
#39
Methvlcvclohexane
Concen: 48.455 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.4	69.1	103.7
98	50.8	38.6	57.8

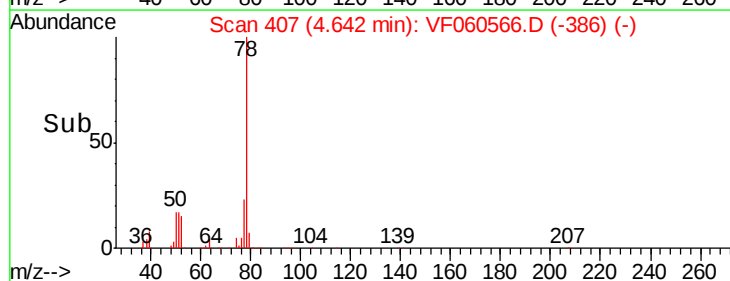
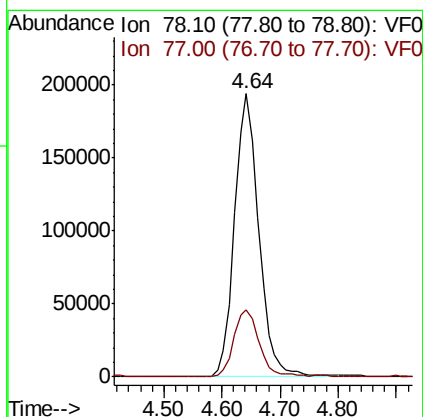
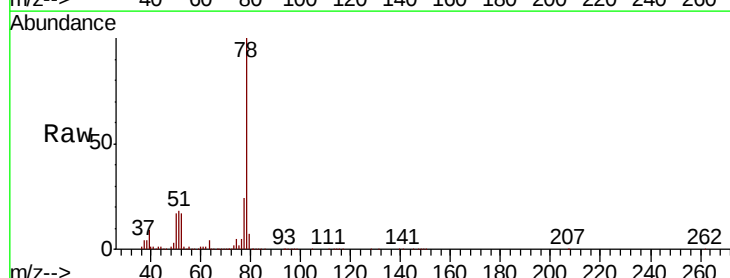
Manual Integrations
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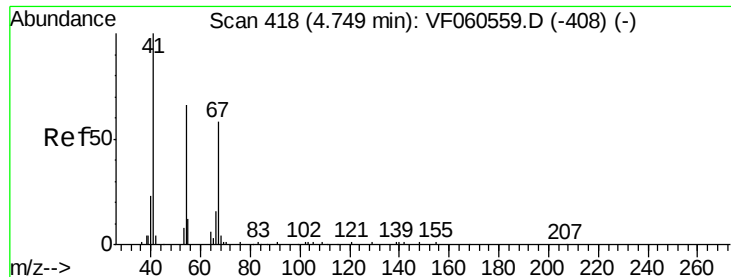
MMDadoda
11/5/2018 3:55:40 PM



#40
Benzene
Concen: 49.019 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9





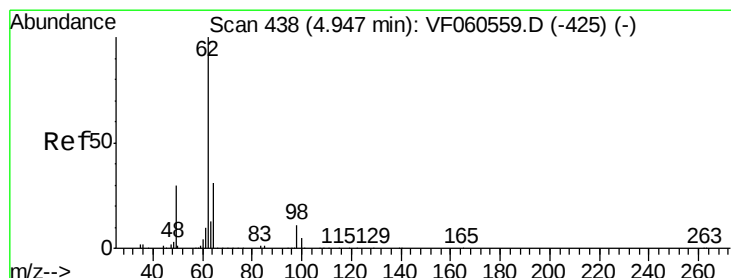
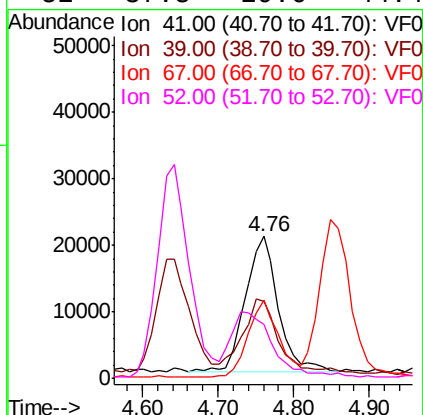
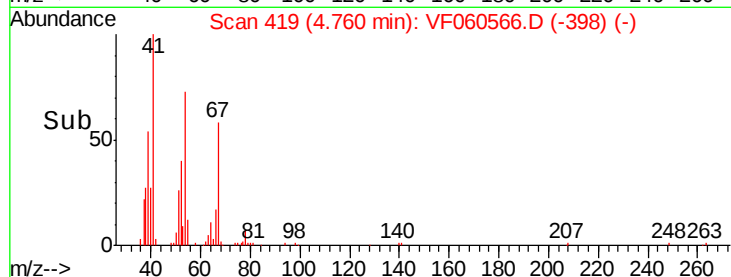
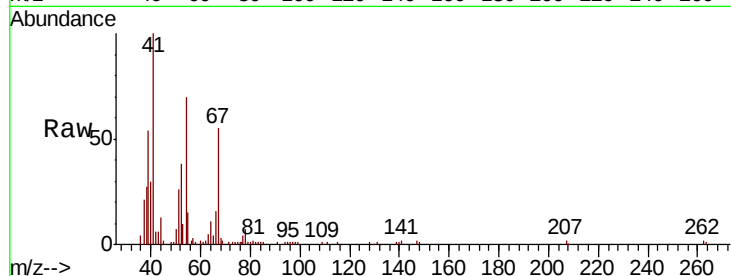
#41
Methacrylonitrile
Concen: 48.439 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.2	45.6	68.4
67	55.5	45.3	67.9
52	37.8	29.6	44.4

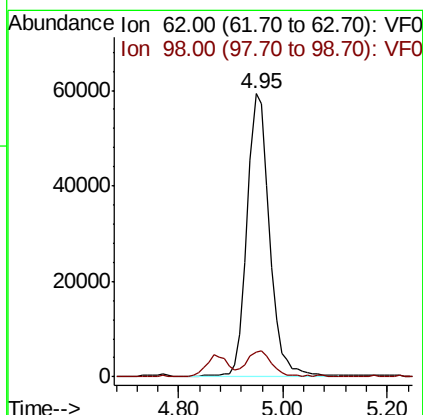
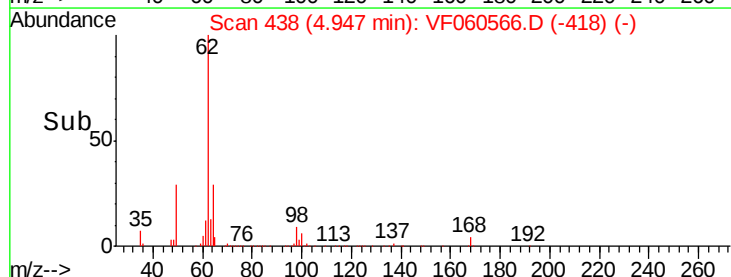
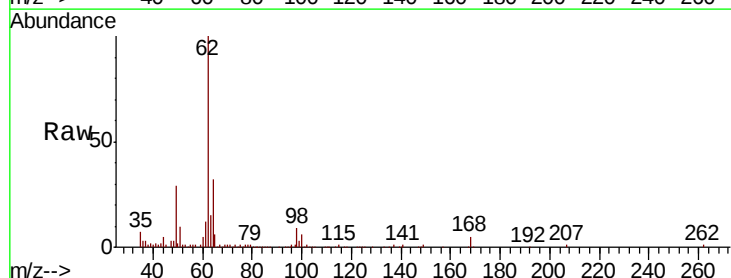
Manual Integrations
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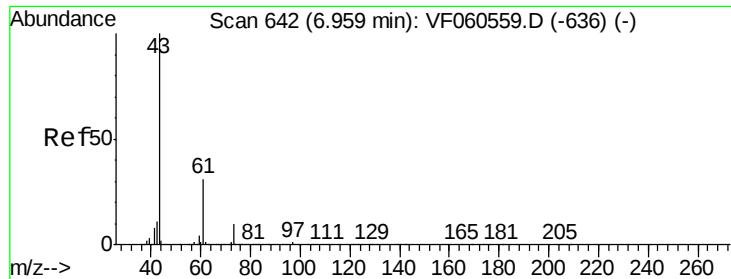
MMDadoda
11/5/2018 3:55:40 PM



#42
1,2-Dichloroethane
Concen: 52.403 ug/l
RT: 4.95 min Scan# 438
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	22.4





#43

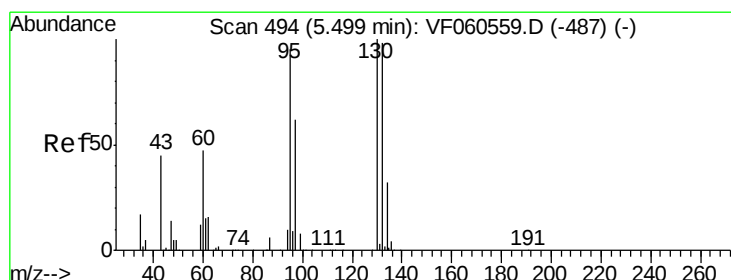
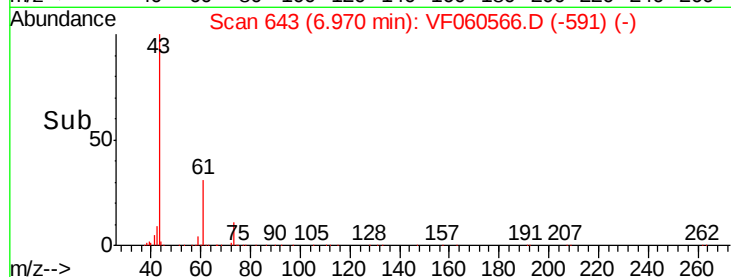
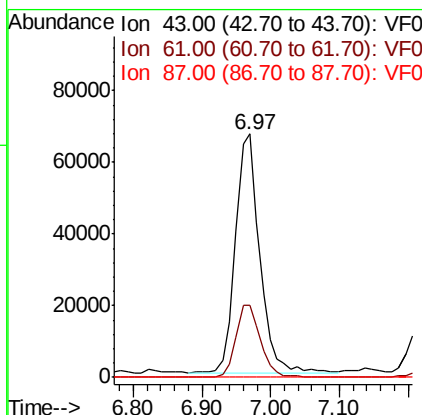
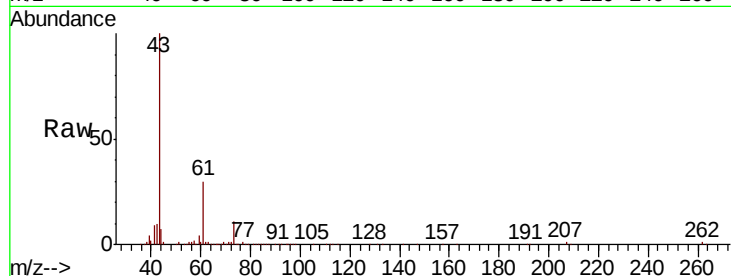
Isopropyl Acetate
 Concen: 56.856 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. 0.01 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF110218

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.5	24.2	36.2
87	0.3	0.2	0.4

Manual Integrations
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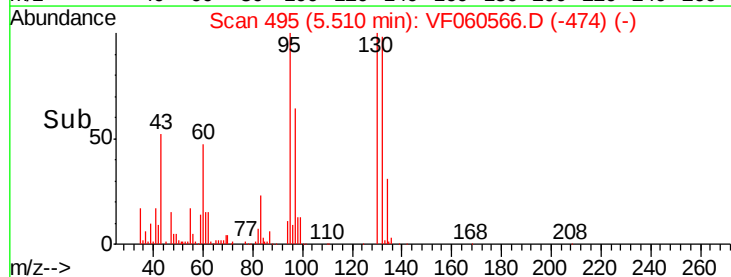
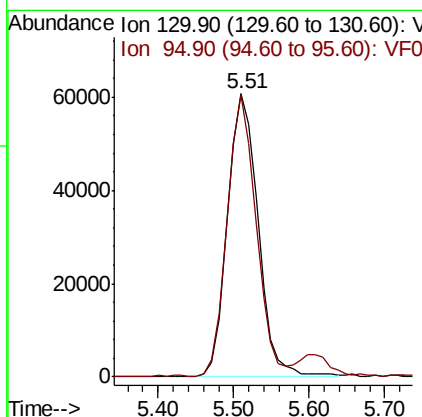
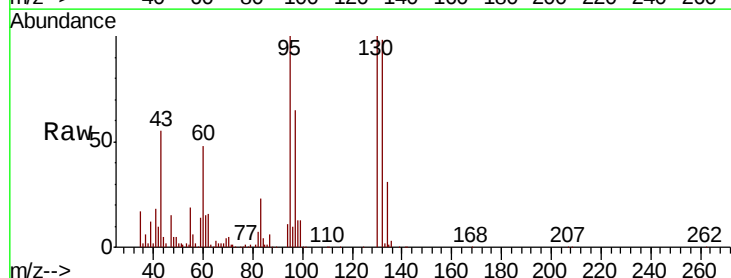
MMDadoda
 11/5/2018 3:55:40 PM

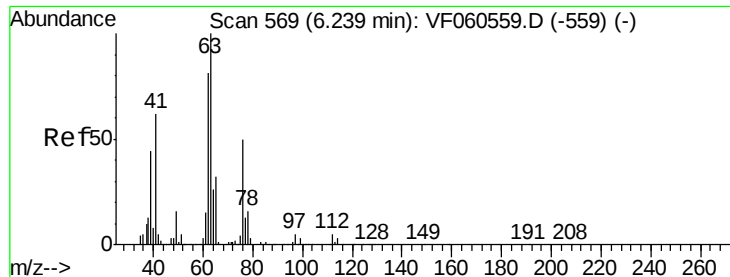


#44

Trichloroethene
 Concen: 49.316 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	191.0





#45

1,2-Dichloropropane

Concen: 49.765 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion: 63 Resp: 146389

Ion Ratio Lower Upper

63 100

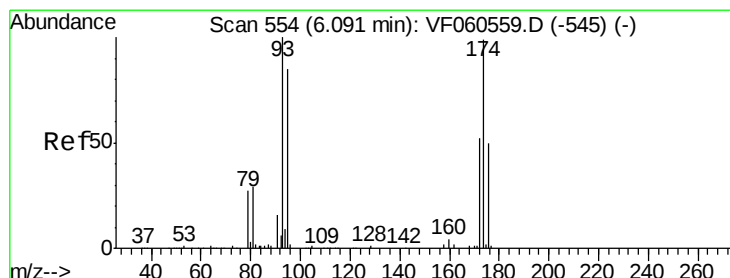
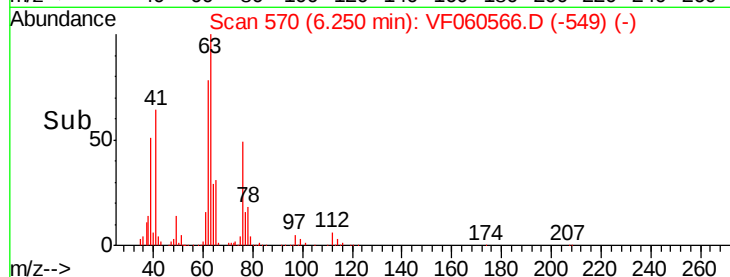
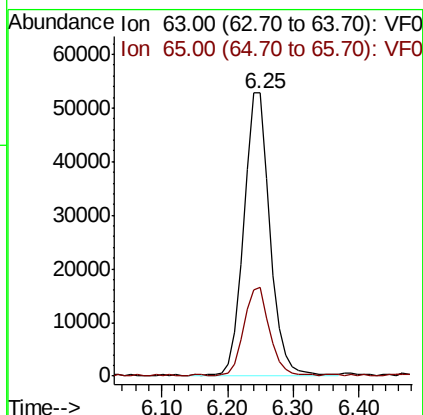
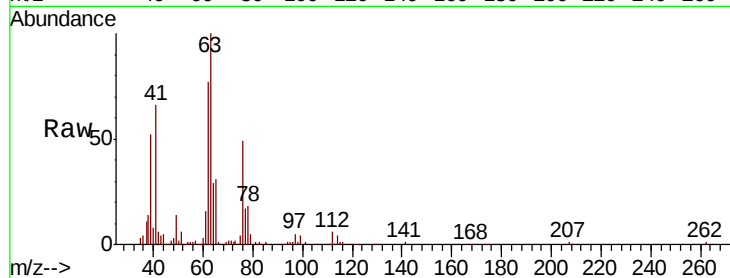
65 31.3 25.4 38.0

Manual Integrations

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#46

Dibromomethane

Concen: 52.687 ug/l

RT: 6.09 min Scan# 554

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

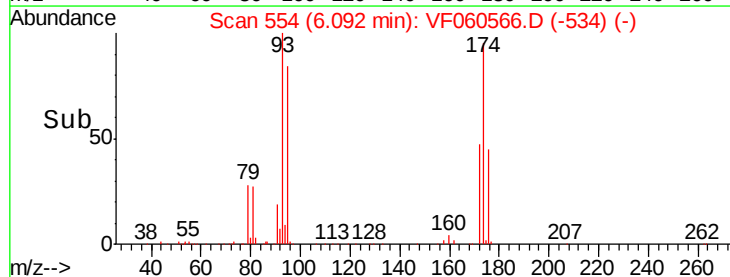
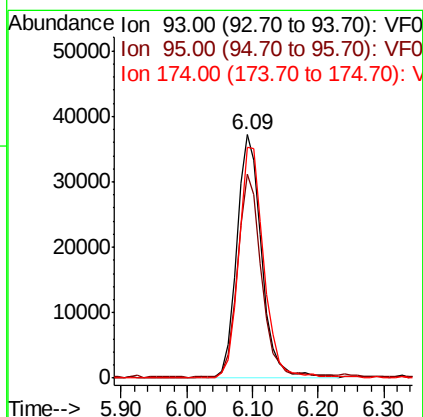
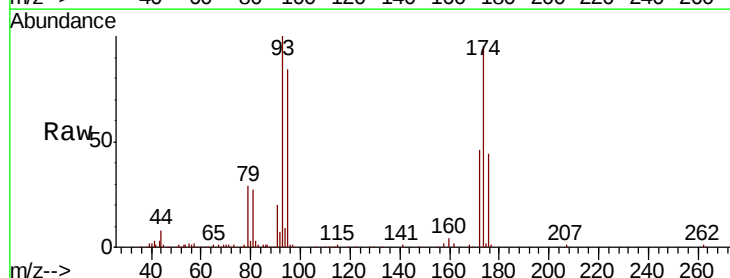
Tgt Ion: 93 Resp: 98322

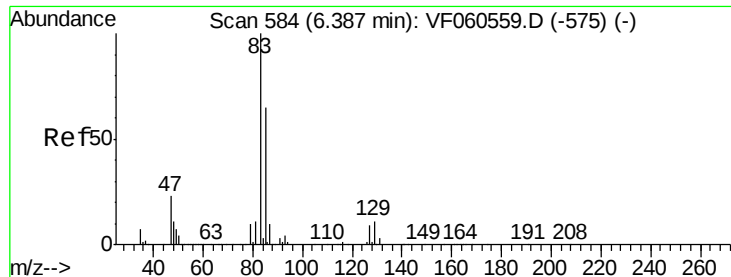
Ion Ratio Lower Upper

93 100

95 83.7 68.6 102.8

174 94.7 79.0 118.4





#47

Bromodichloromethane

Concen: 50.936 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

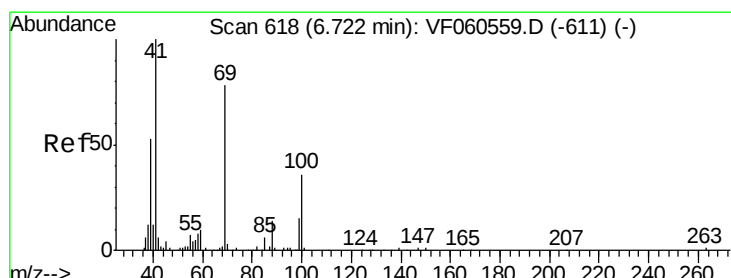
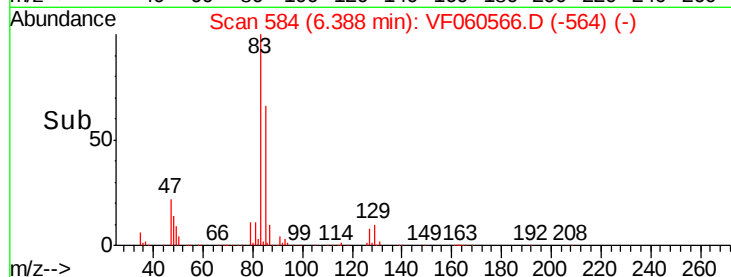
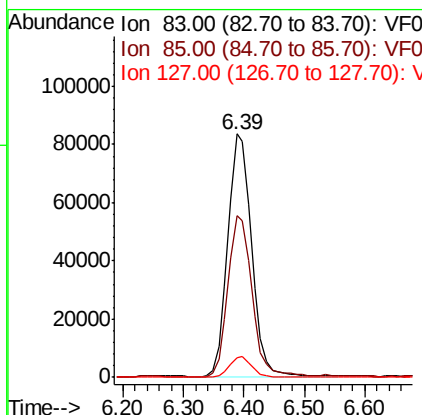
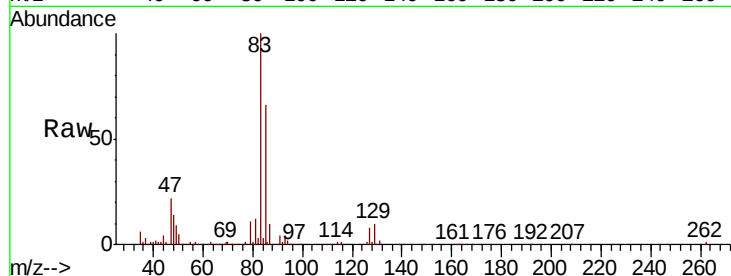
ClientSampleId :

ICVVF110218

Tot Ion:	83	Resp:	229275
Ion Ratio	Lower	Upper	
83	100		
85	66.4	51.8	77.6
127	8.2	7.0	10.4

Manual Integrations
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11/5/2018 3:55:40 PM



#48

Methyl methacrylate

Concen: 50.673 ug/l

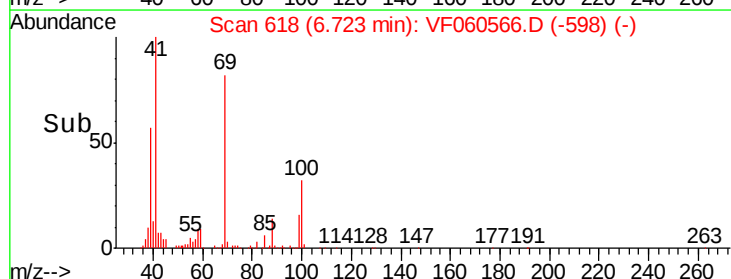
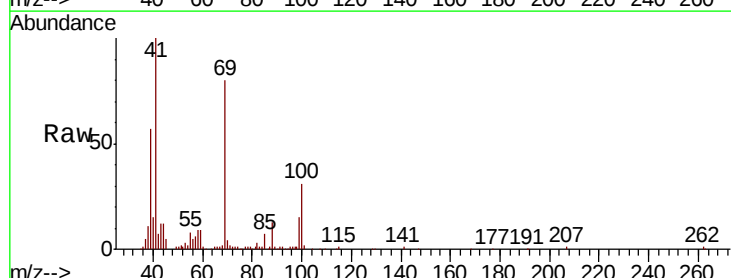
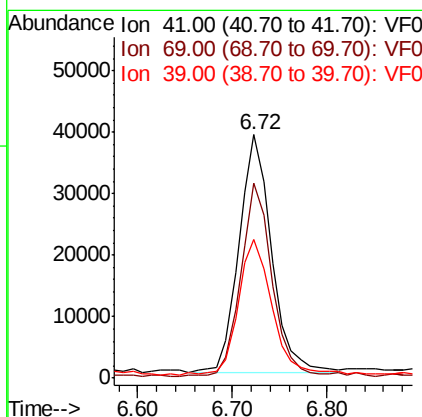
RT: 6.72 min Scan# 618

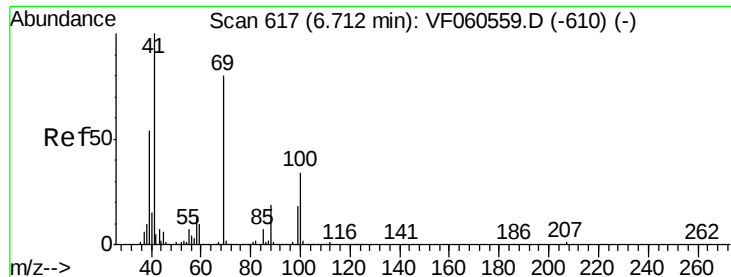
Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Tgt Ion:	41	Resp:	91630
Ion Ratio	Lower	Upper	
41	100		
69	79.9	61.1	91.7
39	56.7	43.0	64.6





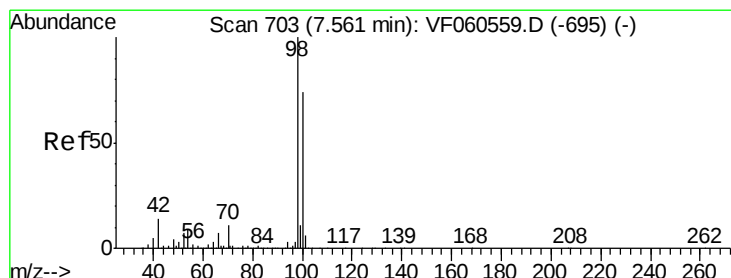
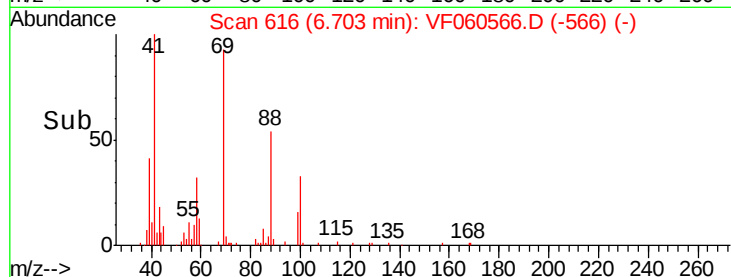
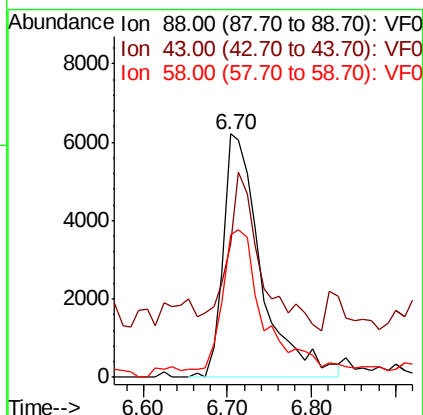
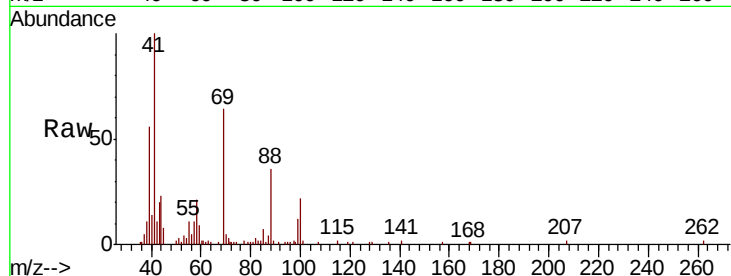
#49
1,4-Dioxane
Concen: 1032.407 ug/l
RT: 6.70 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	55.0	61.2	91.8#	
58	58.6	56.9	85.3	

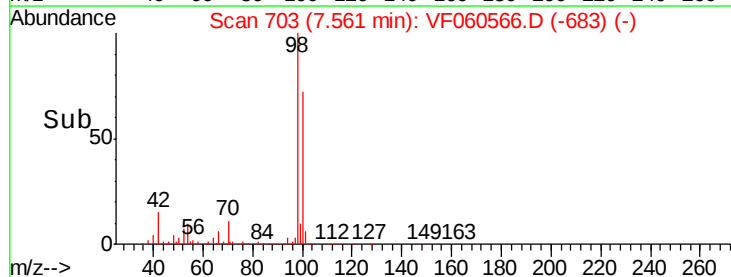
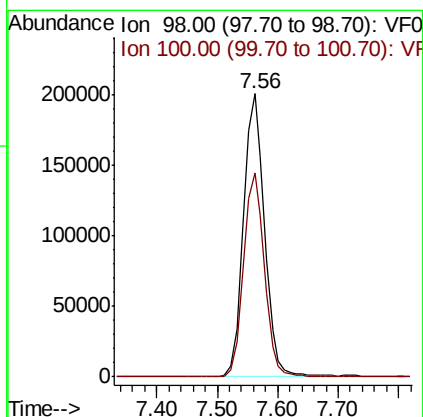
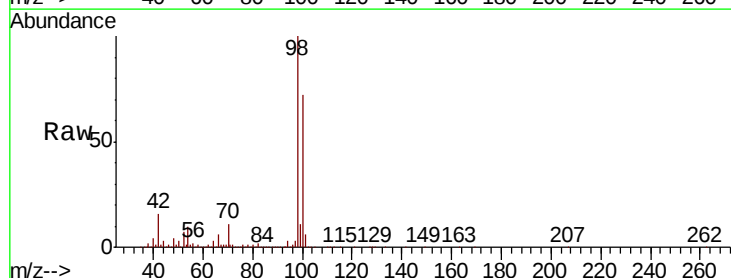
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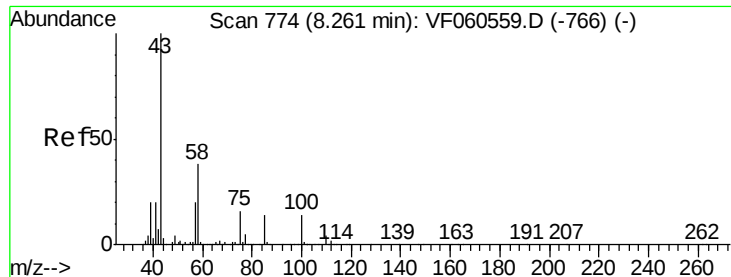
MMDadoda
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#50
Toluene-d8
Concen: 49.430 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	72.1	59.4	89.2	





#51

4-Methyl-2-Pentanone

Concen: 263.513 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion: 43 Resp: 509841

Ion Ratio Lower Upper

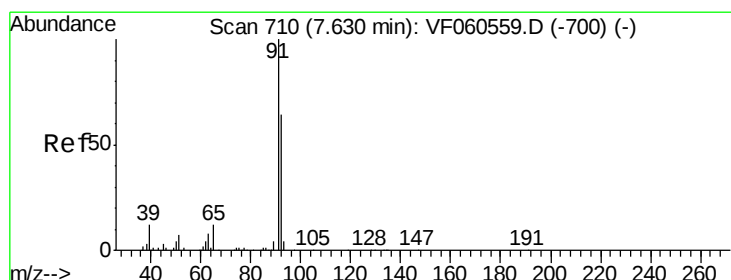
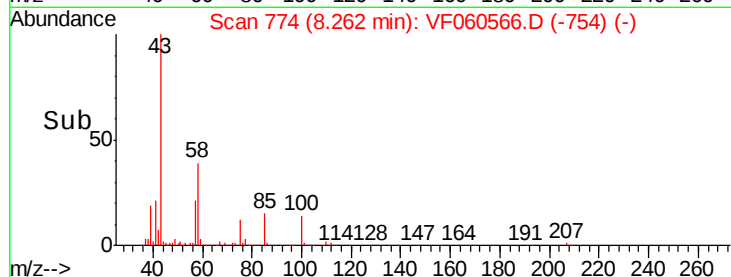
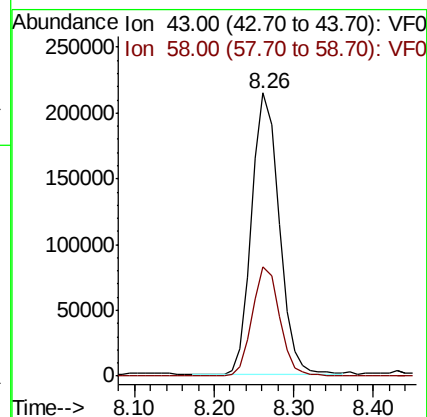
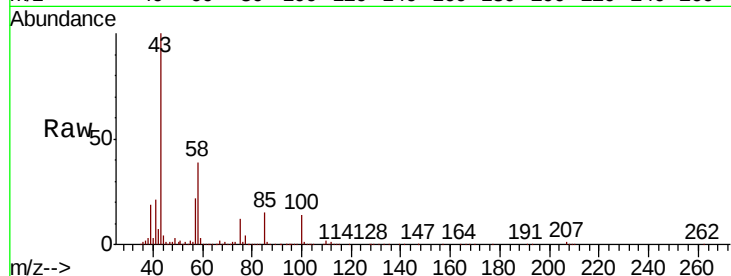
43 100

58 38.6 30.1 45.1

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#52

Toluene

Concen: 48.819 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060566.D

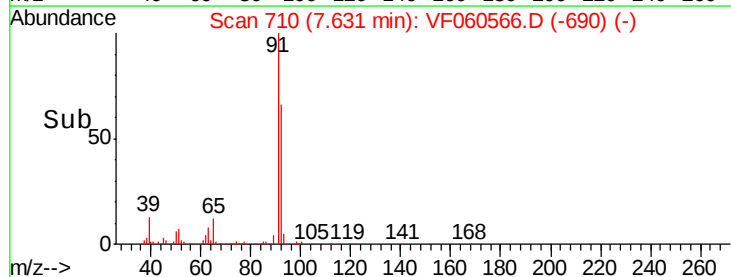
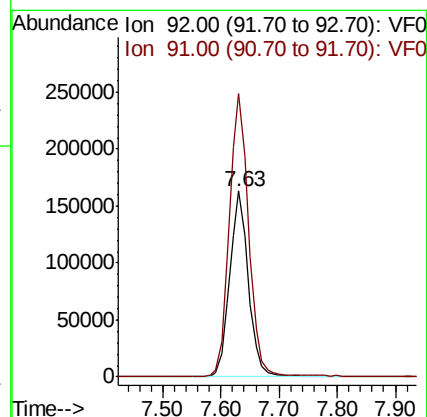
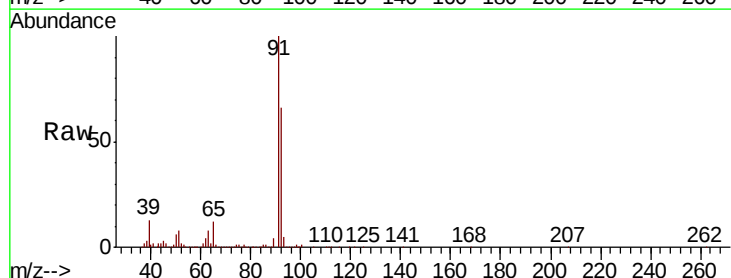
Acq: 2 Nov 2018 18:16

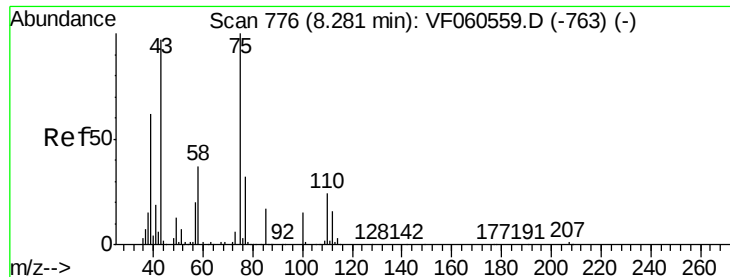
Tgt Ion: 92 Resp: 365766

Ion Ratio Lower Upper

92 100

91 152.6 124.5 186.7





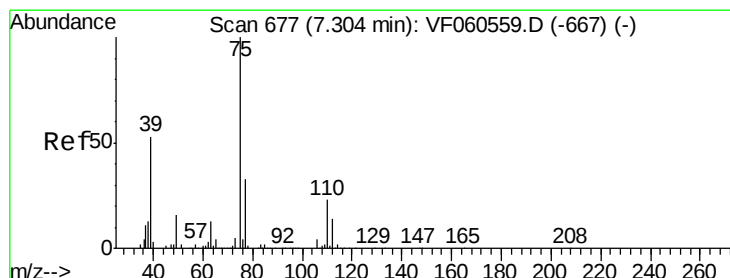
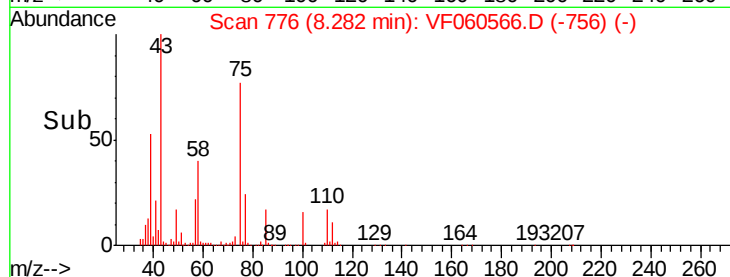
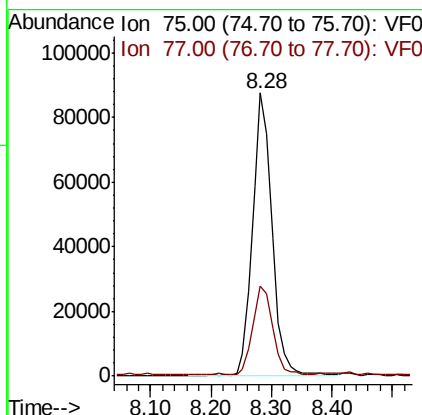
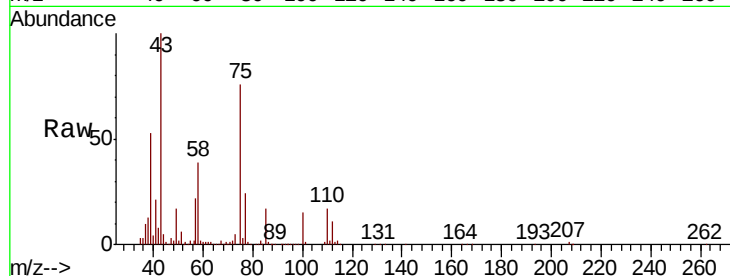
#53
t-1,3-Dichloropropene
Concen: 50.518 ug/l
RT: 8.28 min Scan# 776
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5

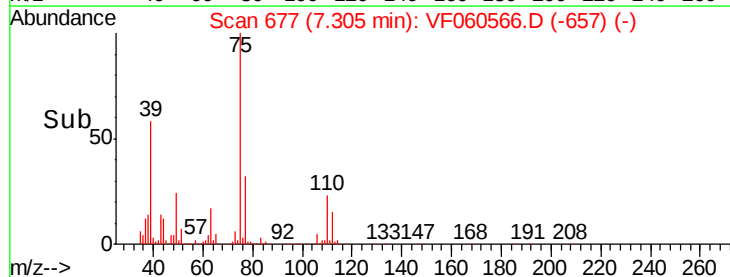
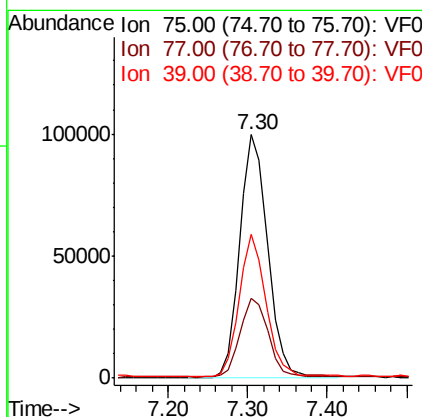
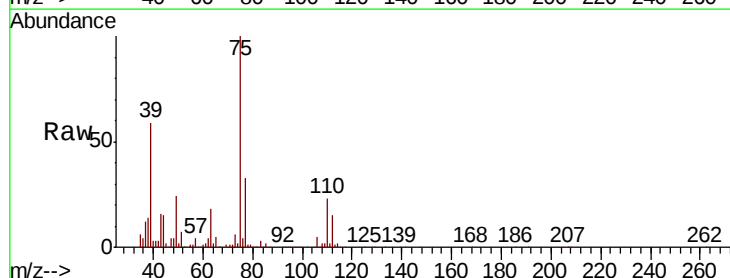
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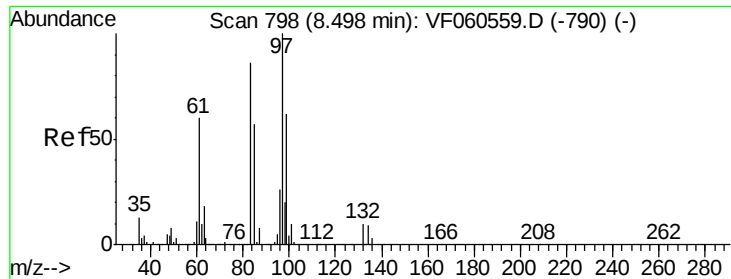
MMDadoda
11/5/2018 3:55:40 PM



#54
cis-1,3-Dichloropropene
Concen: 49.331 ug/l
RT: 7.30 min Scan# 677
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.7	40.1
39	58.9	43.0	64.4





#55

1,1,2-Trichloroethane

Concen: 52.148 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

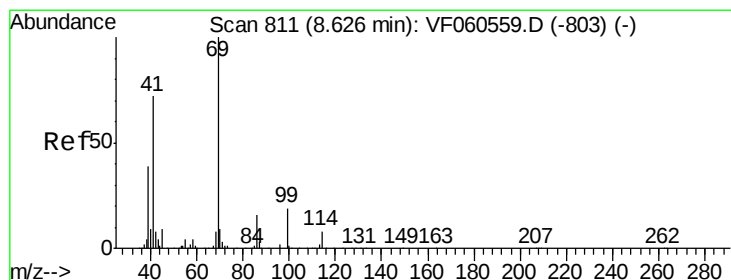
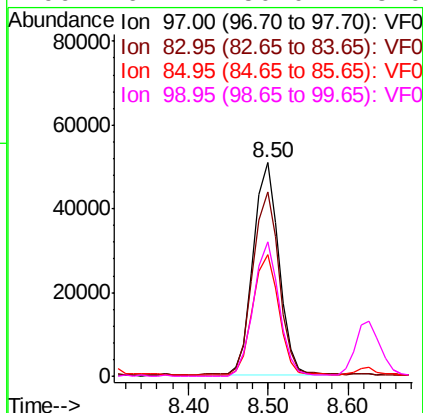
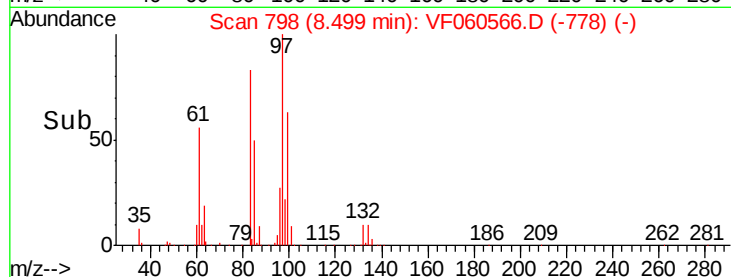
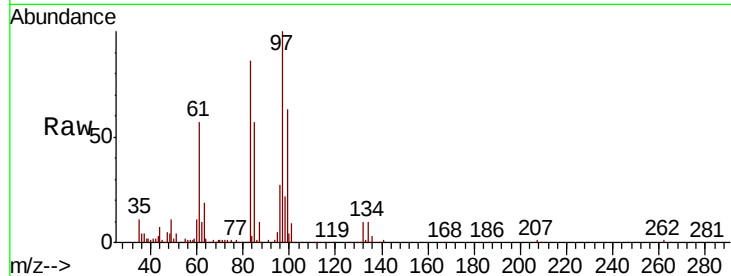
ClientSampleId :

ICVVF110218

Tot Ion:	97	Resp:	113695
Ion Ratio	Lower	Upper	
97	100		
83	86.2	69.4	104.0
85	56.8	46.6	69.8
99	62.7	50.0	75.0

Manual Integrations
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11/5/2018 3:55:40 PM



#56

Ethyl methacrylate

Concen: 53.732 ug/l

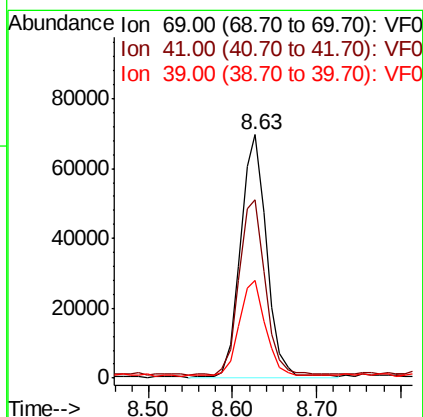
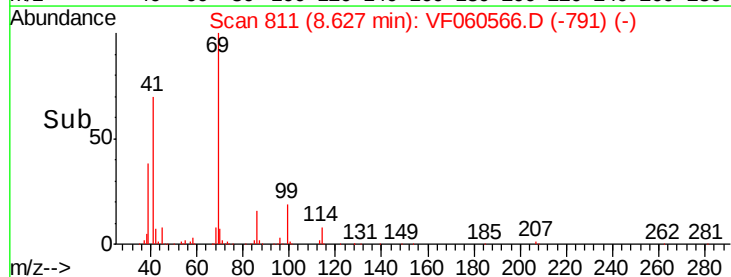
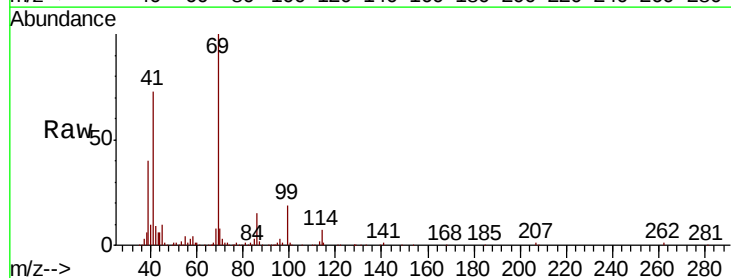
RT: 8.63 min Scan# 811

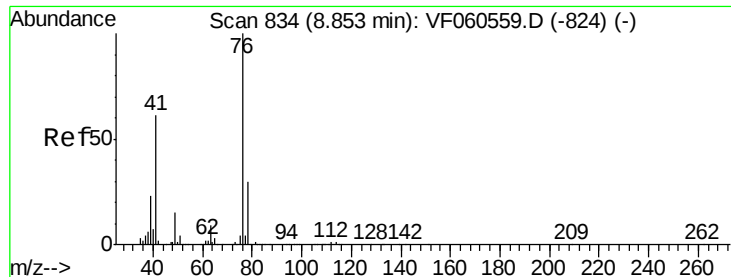
Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Tgt Ion:	69	Resp:	150722
Ion Ratio	Lower	Upper	
69	100		
41	73.4	59.2	88.8
39	39.9	32.3	48.5





#57

1,3-Dichloropropane

Concen: 53.009 ug/l

RT: 8.86 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion: 76 Resp: 202785

Ion Ratio Lower Upper

76 100

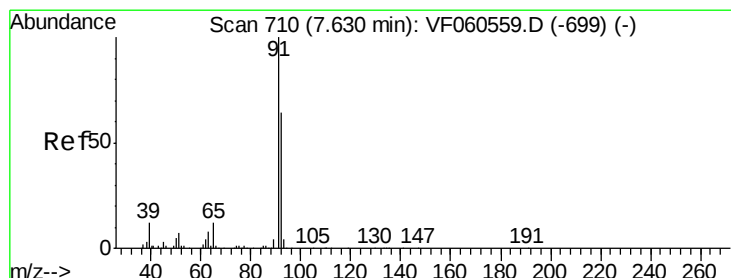
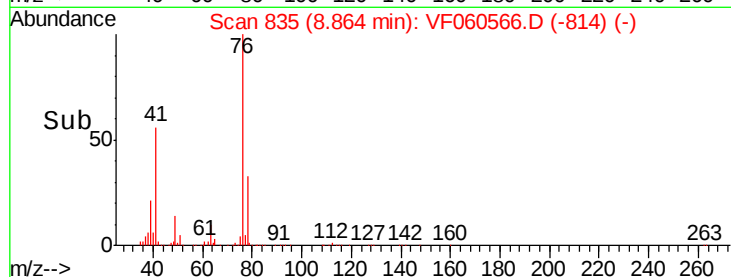
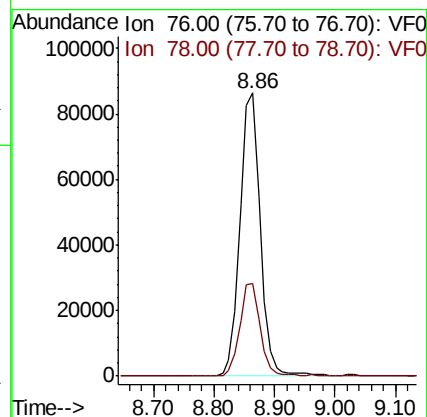
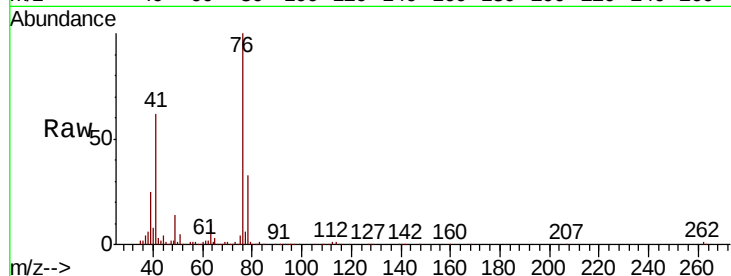
78 32.7 24.2 36.4

Manual Integrations

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11/5/2018 3:55:40 PM



#58

2-Chloroethyl Vinyl ether

Concen: 279.586 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060566.D

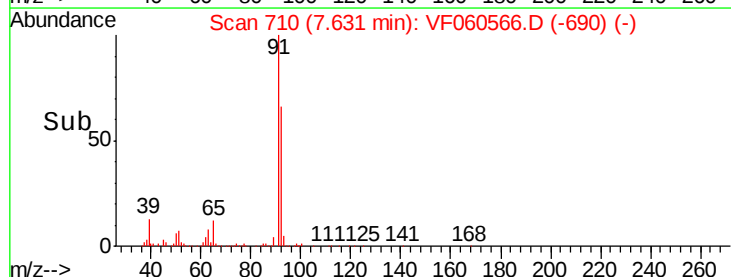
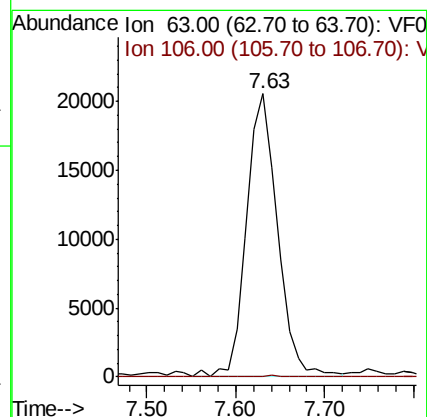
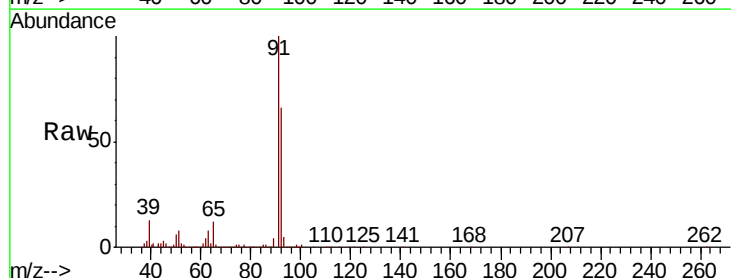
Acq: 2 Nov 2018 18:16

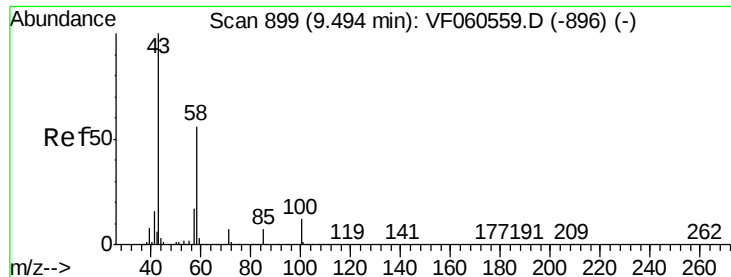
Tgt Ion: 63 Resp: 49722

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





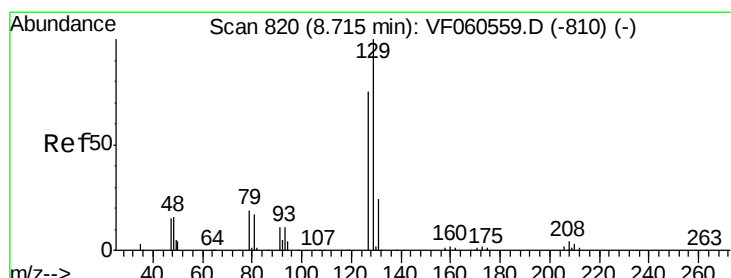
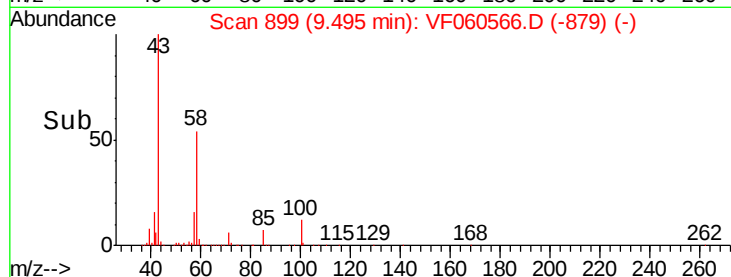
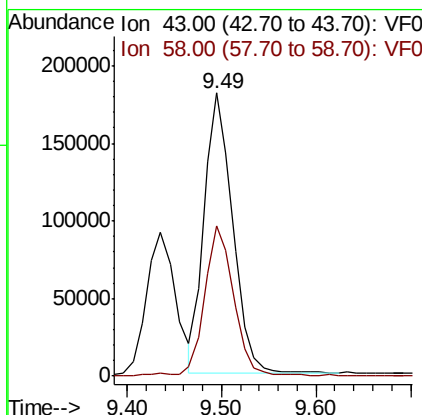
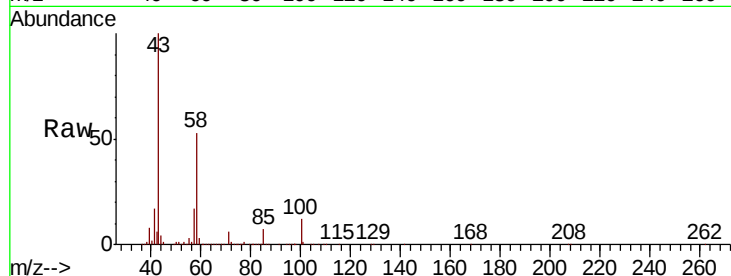
#59
2-Hexanone
Concen: 301.400 ug/l
RT: 9.49 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion: 43 Resp: 379386
Ion Ratio Lower Upper
43 100
58 53.2 26.1 78.3

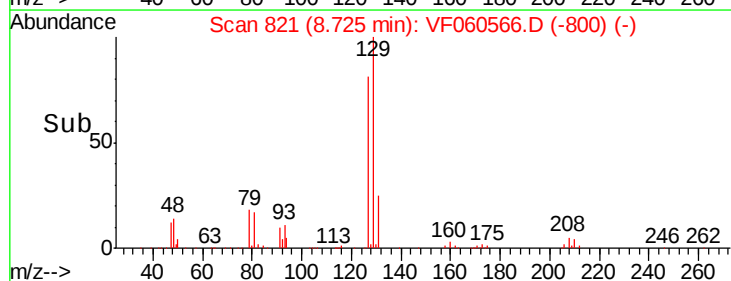
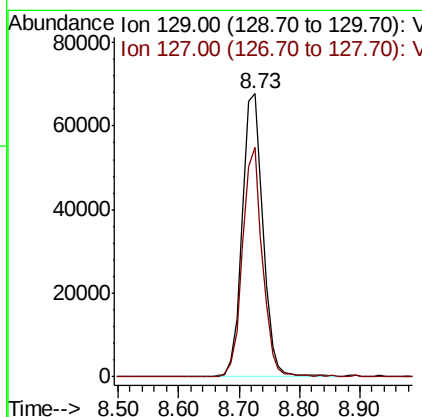
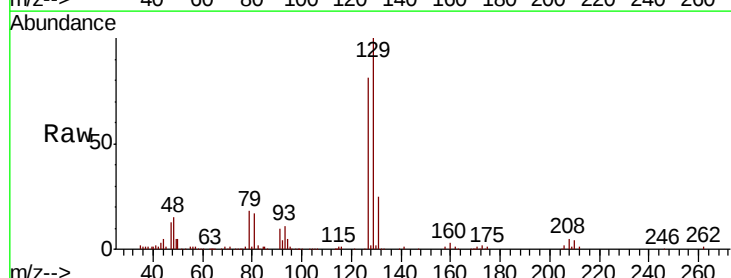
Manual Integrations
APPROVED

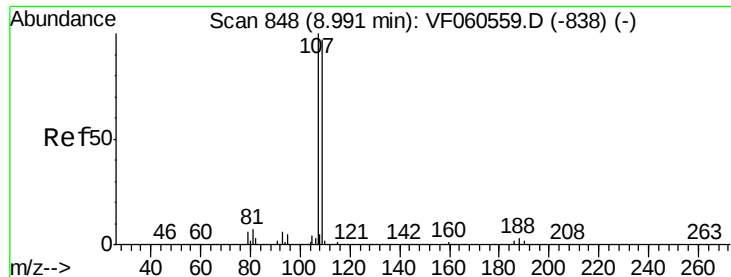
MMDadoda
11/5/2018 3:55:40 PM



#60
Dibromochloromethane
Concen: 53.210 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion: 129 Resp: 162245
Ion Ratio Lower Upper
129 100
127 81.2 37.8 113.3





#61

1,2-Dibromoethane

Concen: 51.886 ug/l

RT: 8.99 min Scan# 848

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion:107 Resp: 118961

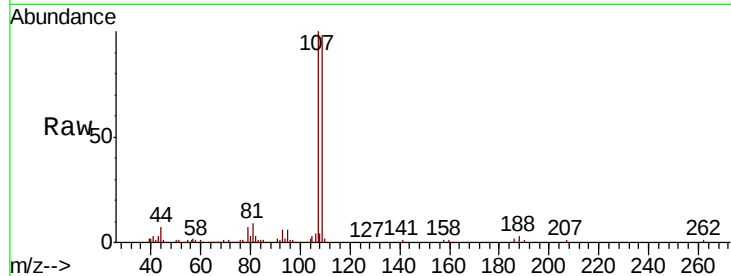
Ion Ratio Lower Upper

107 100

109 98.0 77.5 116.3

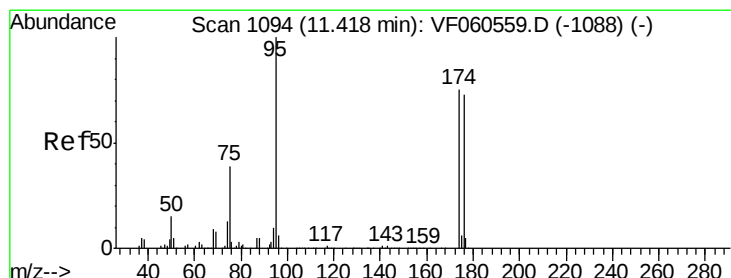
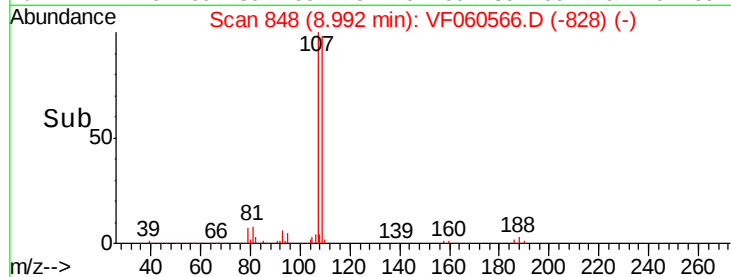
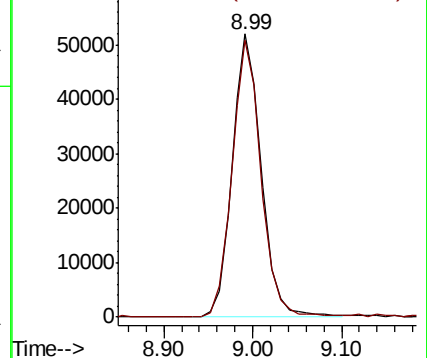
Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:40 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.159 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

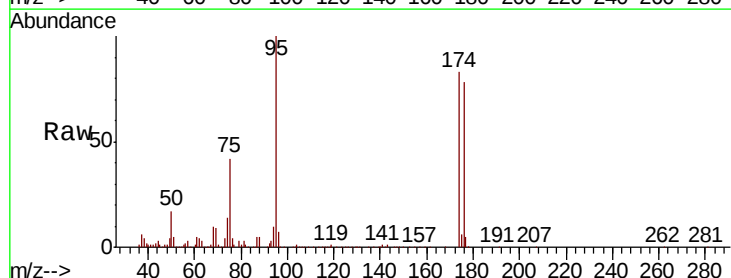
Tgt Ion: 95 Resp: 216088

Ion Ratio Lower Upper

95 100

174 82.7 0.0 149.0

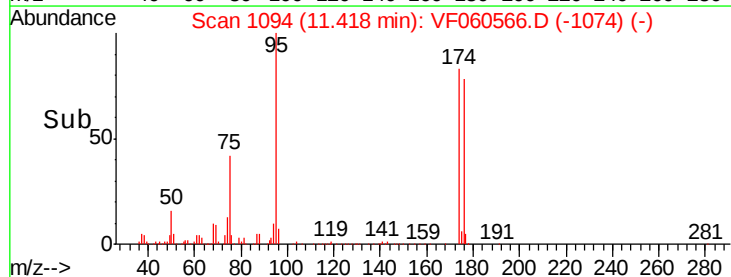
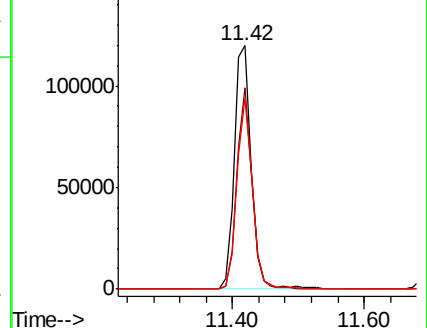
176 78.3 0.0 145.6

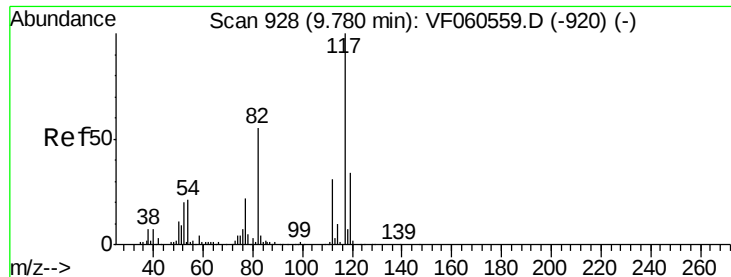


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





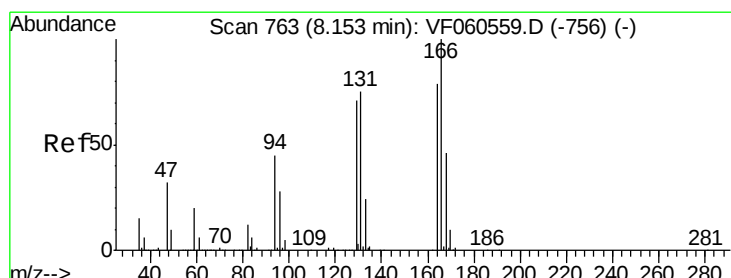
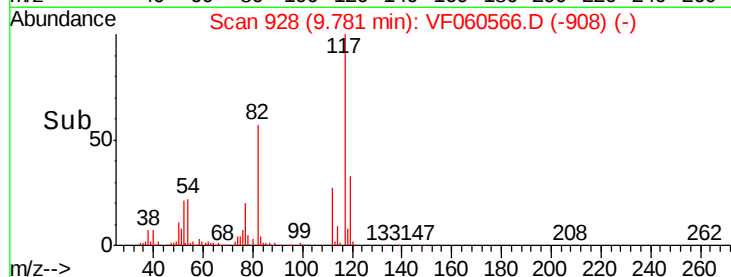
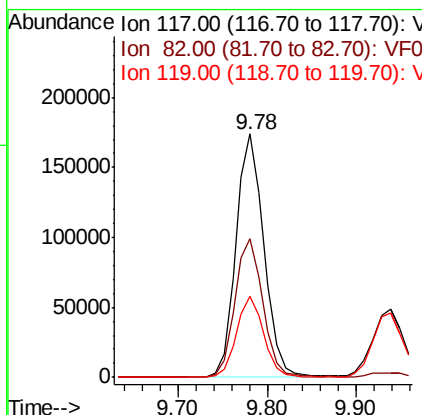
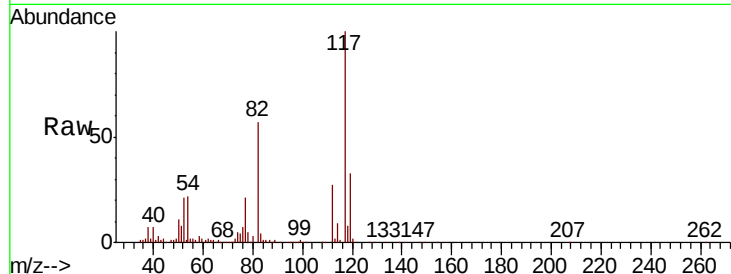
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Resp	Lower	Upper
117	100	381725		
82	56.9		43.9	65.9
119	33.1		27.4	41.0

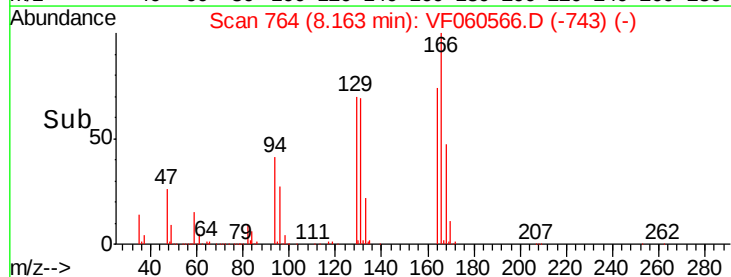
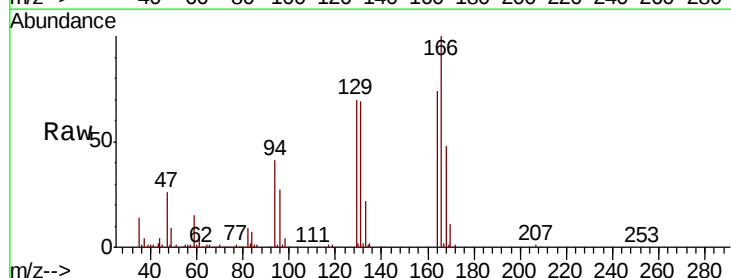
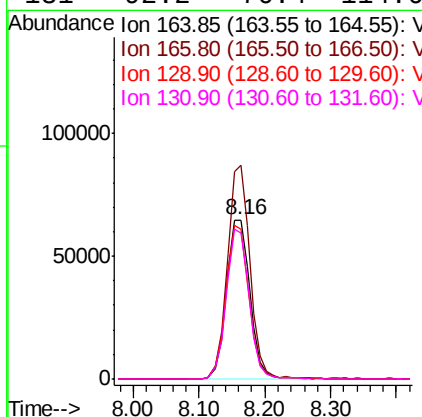
Manual Integrations
APPROVED

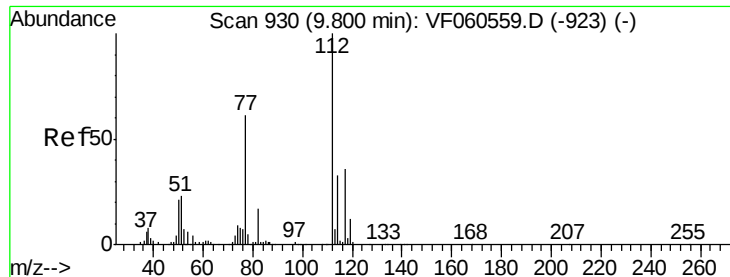
MMDadoda
11/5/2018 3:55:40 PM



#64
Tetrachloroethene
Concen: 54.615 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	163389		
166	134.5		101.5	152.3
129	94.4		72.5	108.7
131	92.2		76.4	114.6





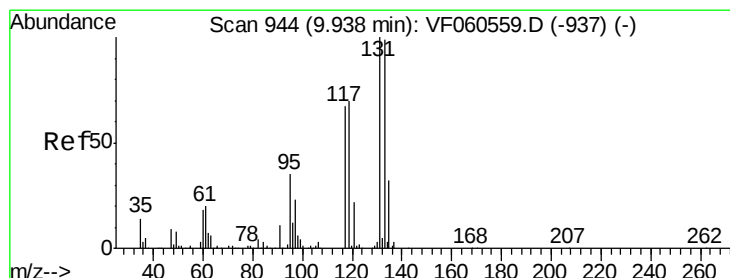
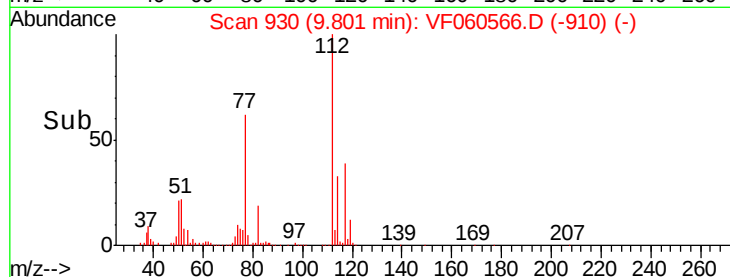
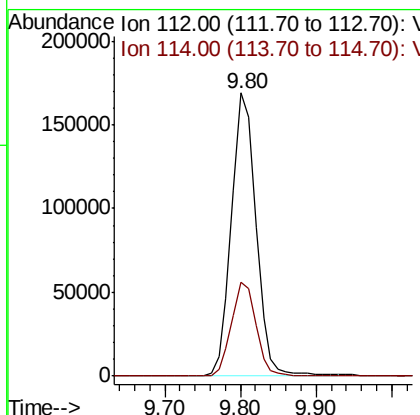
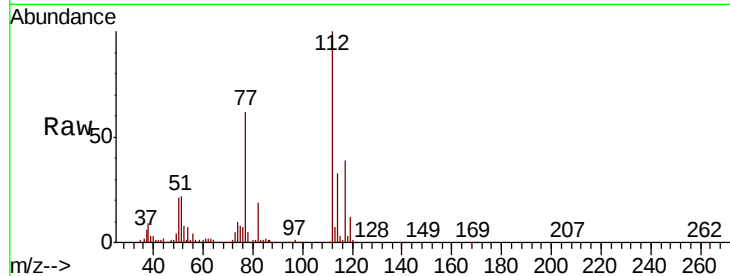
#65
Chlorobenzene
Concen: 48.678 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Resp	Lower	Upper
112	100	379995		
114	33.2	26.6	40.0	

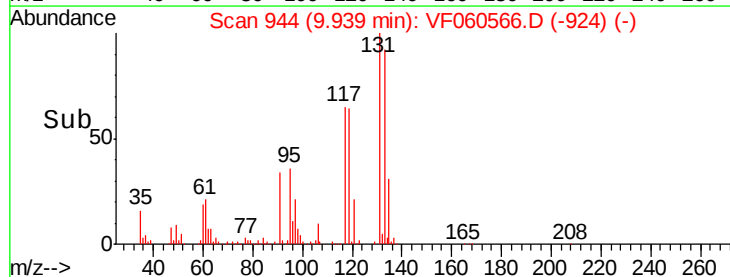
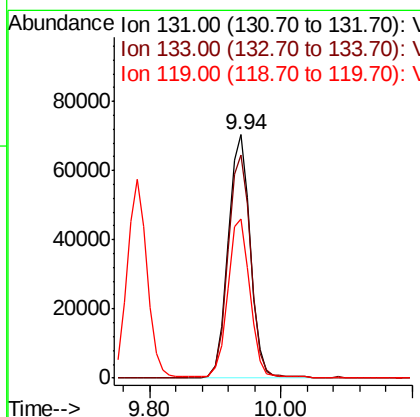
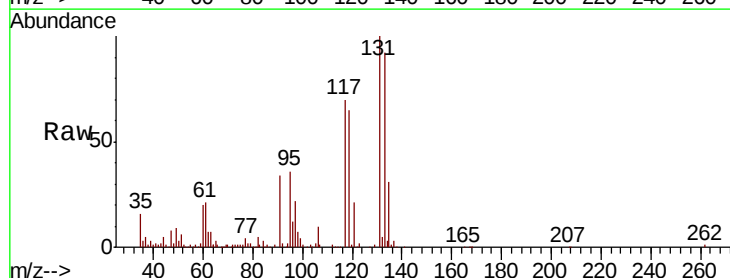
Manual Integrations
APPROVED

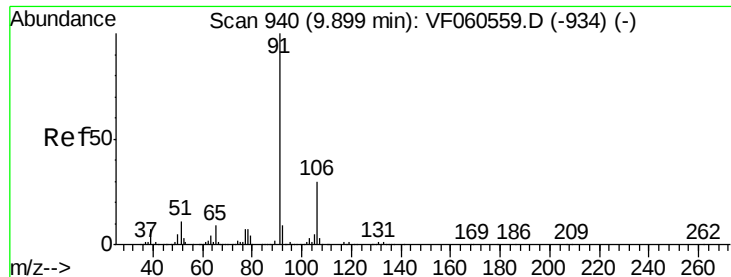
MMDadoda
11/5/2018 3:55:40 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.525 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	166656		
133	91.9	49.5	148.7	
119	65.1	35.2	105.6	





#67

Ethyl Benzene

Concen: 51.255 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion: 91 Resp: 726077

Ion Ratio Lower Upper

91 100

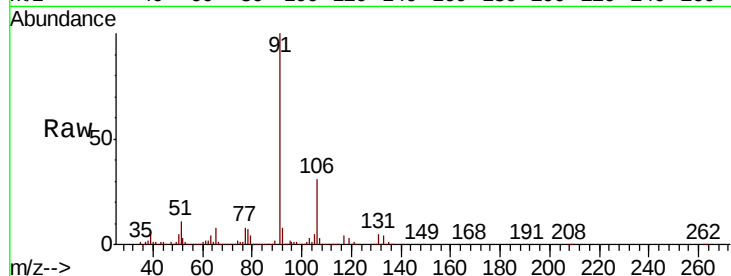
106 31.2 24.2 36.4

Manual Integrations

APPROVED

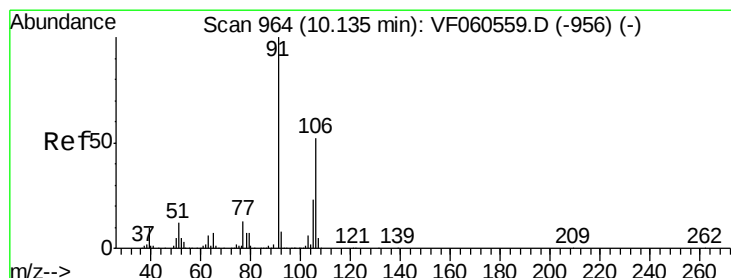
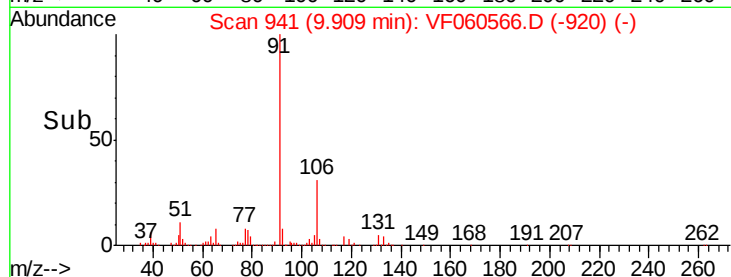
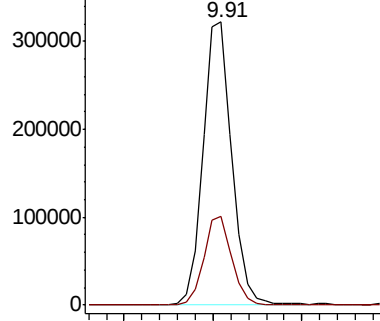
MMDadoda

11/5/2018 3:55:40 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 97.978 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF060566.D

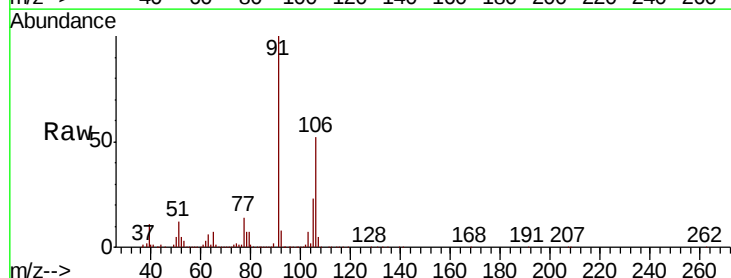
Acq: 2 Nov 2018 18:16

Tgt Ion:106 Resp: 522822

Ion Ratio Lower Upper

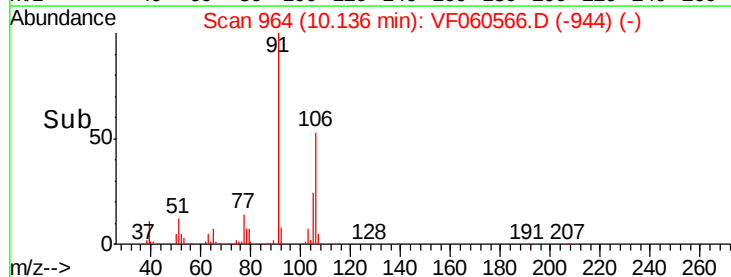
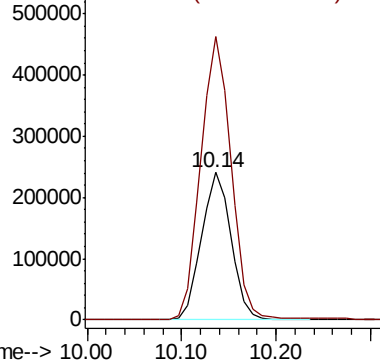
106 100

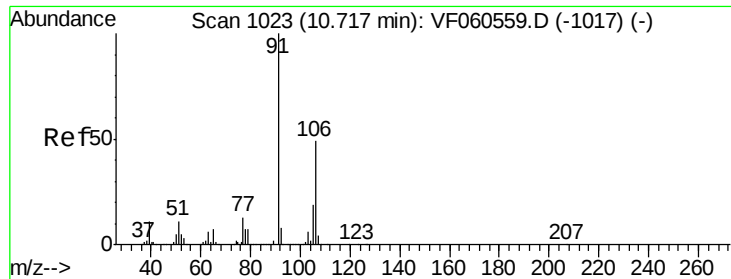
91 191.9 153.9 230.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





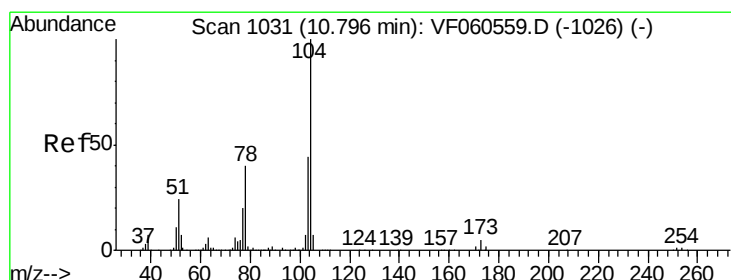
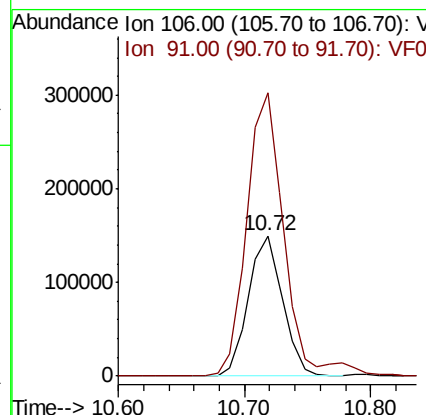
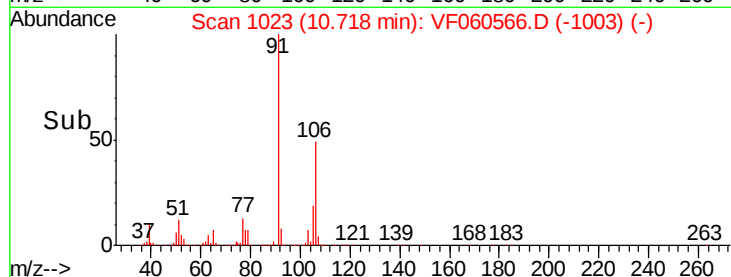
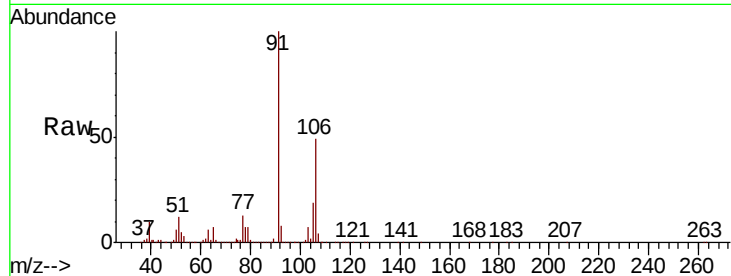
#69
o-Xylene
Concen: 48.481 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		282486		
91	202.1	101.8	305.3		

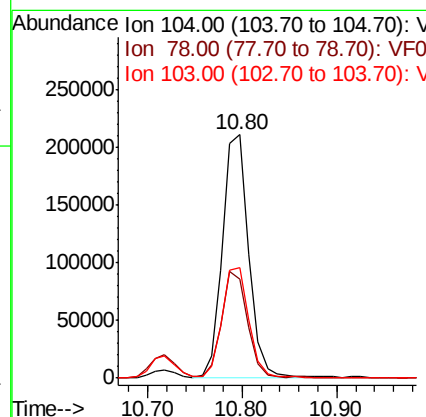
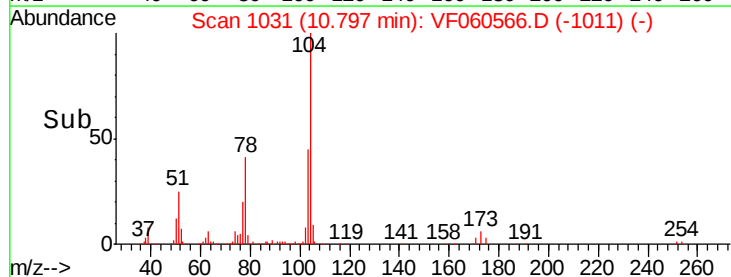
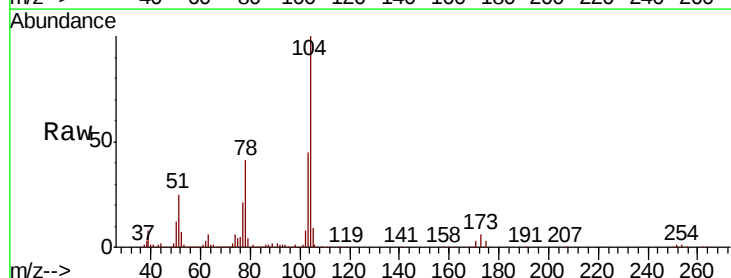
Manual Integrations
APPROVED

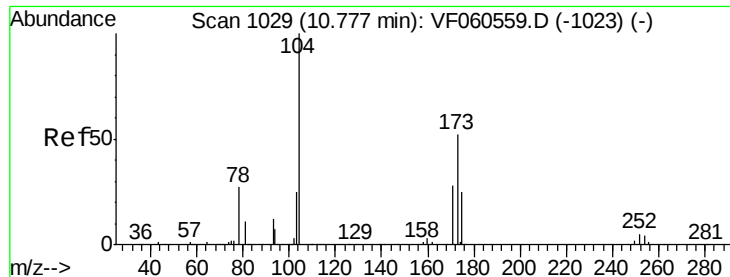
MMDadoda
11/5/2018 3:55:40 PM



#70
Styrene
Concen: 47.945 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		404725		
78	40.8	32.6	49.0		
103	45.3	35.2	52.8		





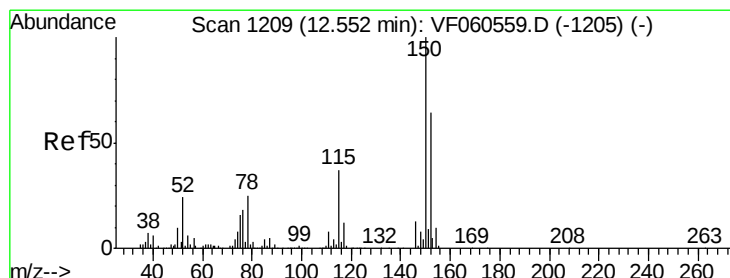
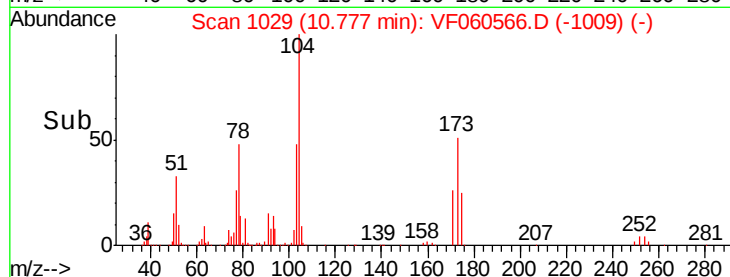
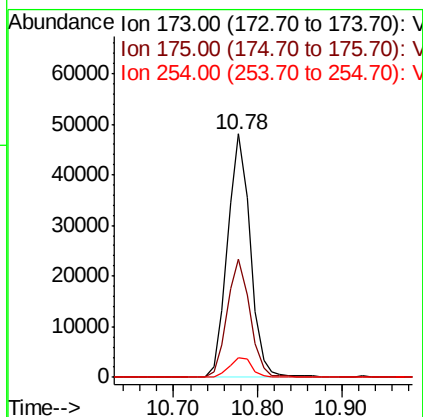
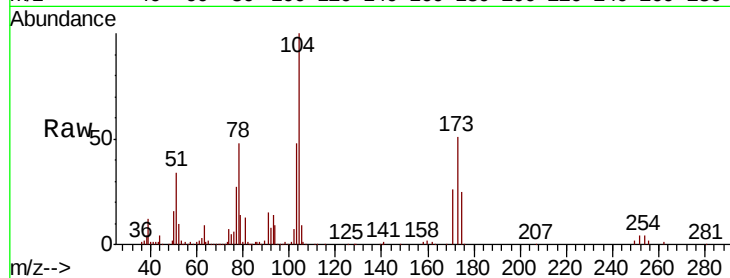
#71
Bromoform
Concen: 53.036 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	72.9
254	8.1	6.7	10.1

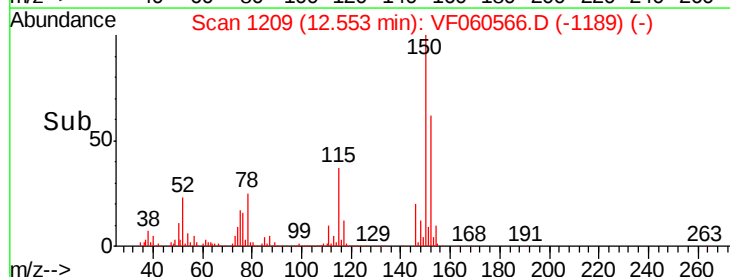
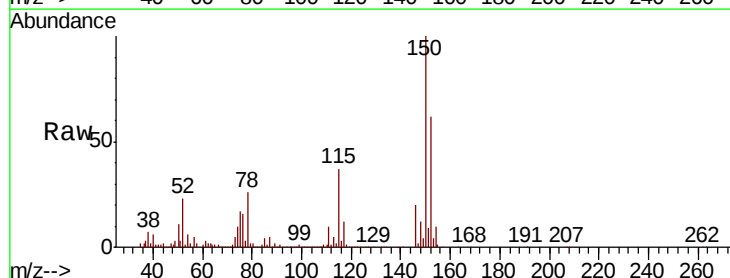
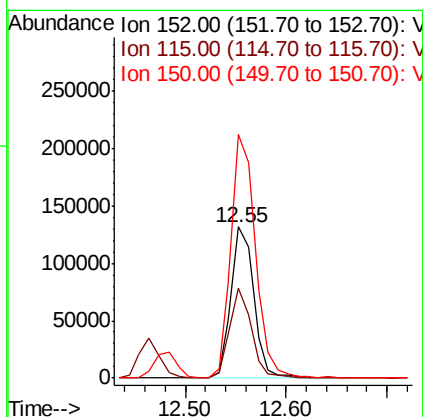
Manual Integrations
APPROVED

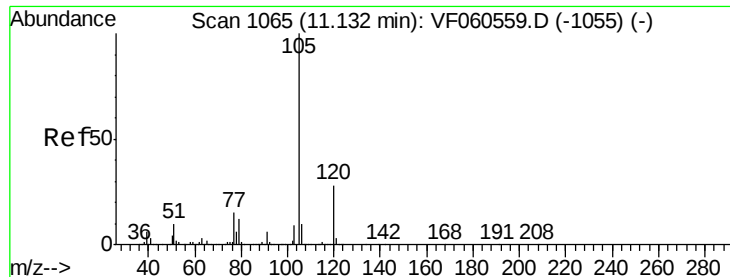
MMDadoda
11/5/2018 3:55:40 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.0	29.6	88.8
150	161.2	0.0	315.6





#73

Isopropylbenzene

Concen: 47.550 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion:105 Resp: 774179

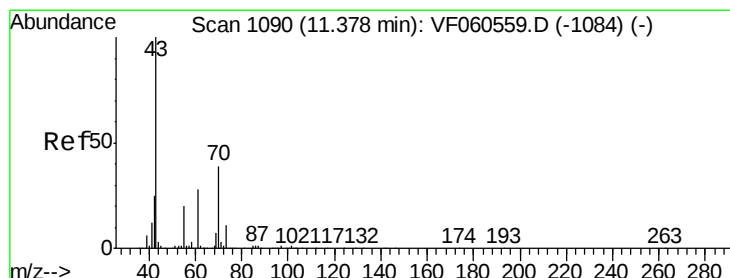
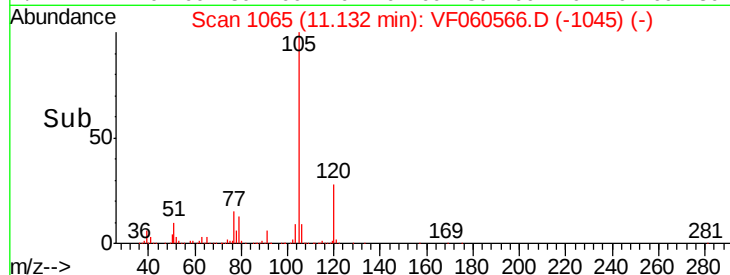
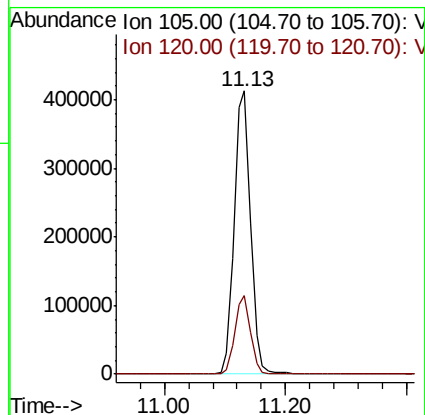
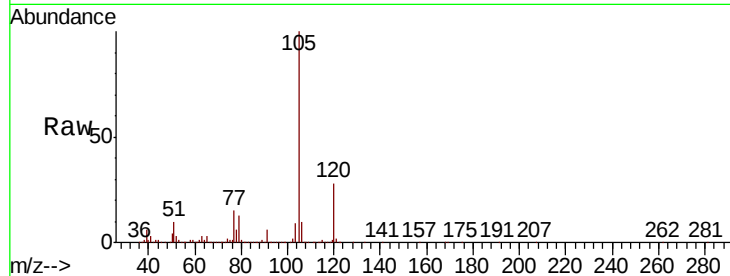
Ion Ratio Lower Upper

105 100

120 27.9 13.9 41.6

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:40 PM



#74

N-ethyl acetate

Concen: 60.796 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Tgt Ion: 43 Resp: 247701

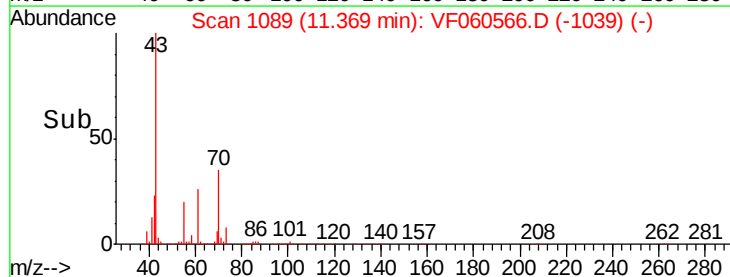
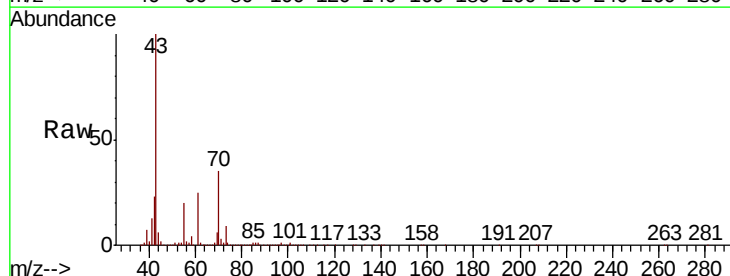
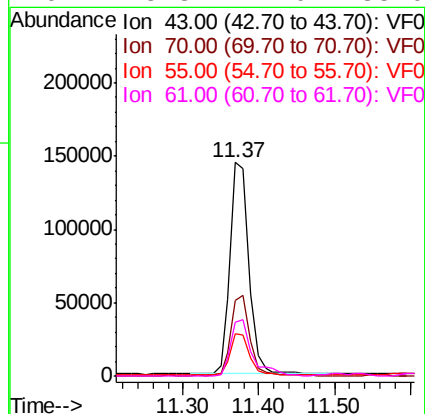
Ion Ratio Lower Upper

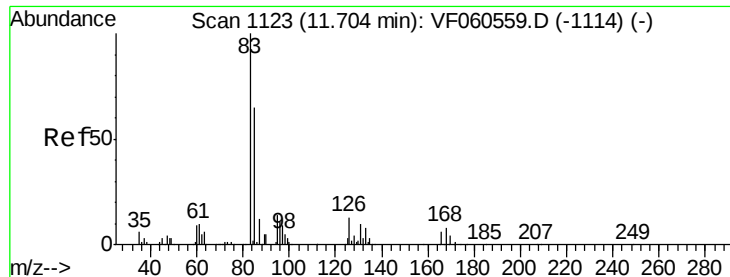
43 100

70 35.1 30.9 46.3

55 20.1 16.6 24.8

61 25.3 22.0 33.0





#75

1,1,2,2-Tetrachloroethane

Concen: 52.264 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

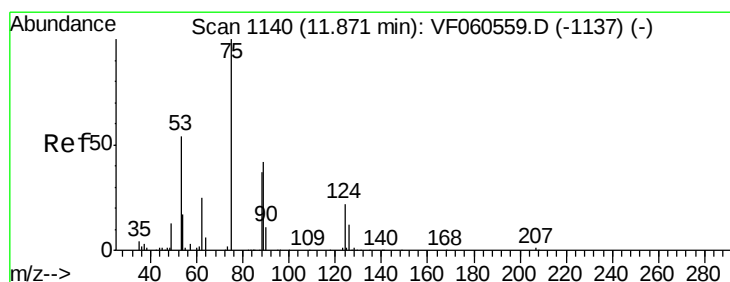
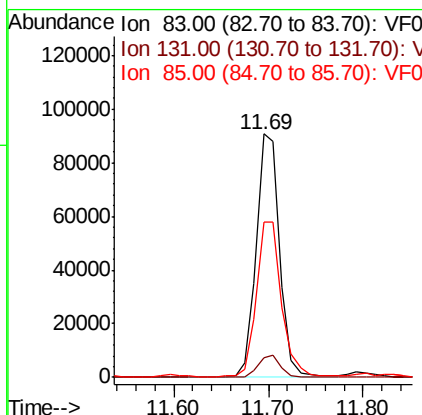
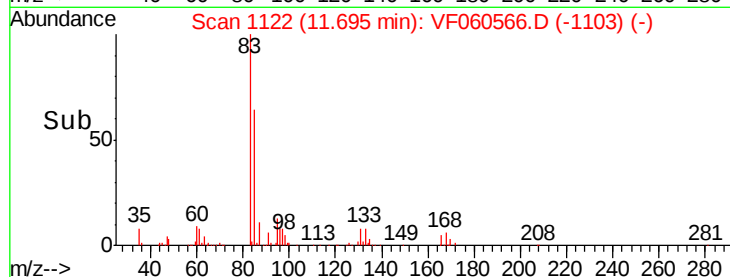
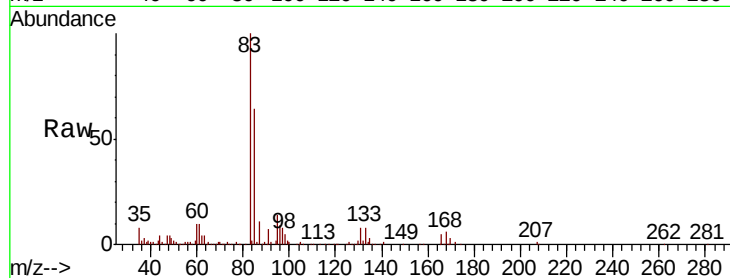
ClientSampleId :

ICVVF110218

Tot Ion:	83	Resp:	155319
Ion Ratio	Lower	Upper	
83	100		
131	8.3	5.0	14.9
85	64.0	32.9	98.7

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:40 PM



#76

1,2,3-Trichloropropane

Concen: 51.560 ug/l

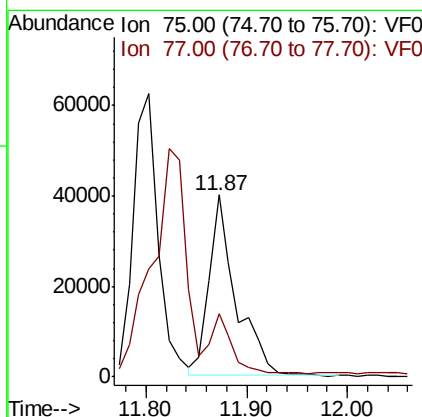
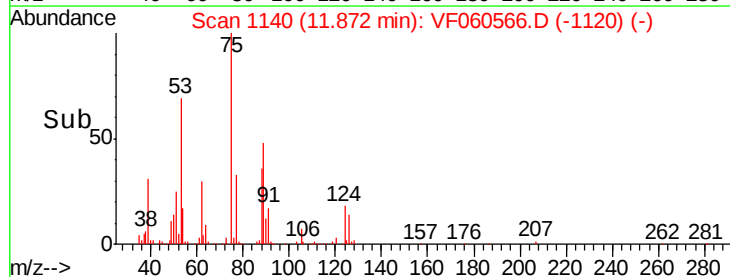
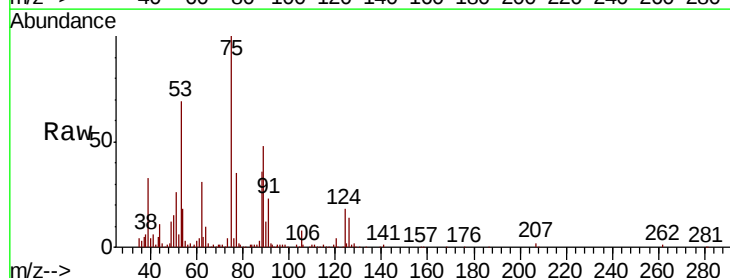
RT: 11.87 min Scan# 1140

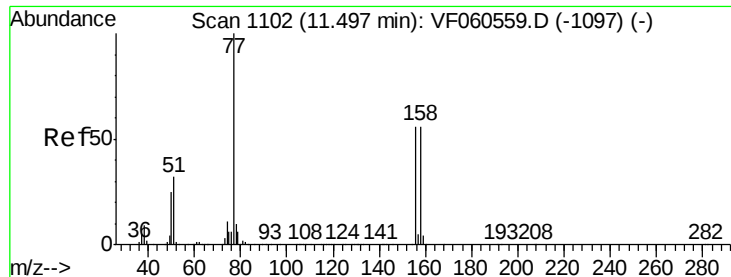
Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Tgt Ion:	75	Resp:	75304
Ion Ratio	Lower	Upper	
75	100		
77	35.0	17.4	52.3





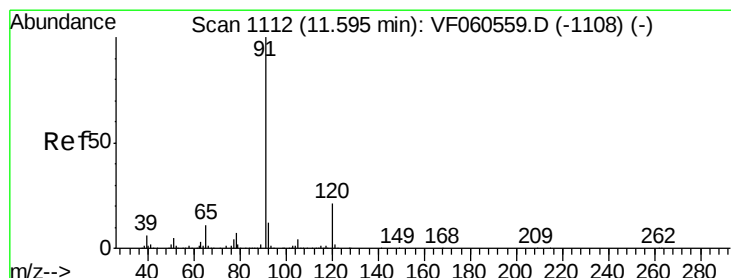
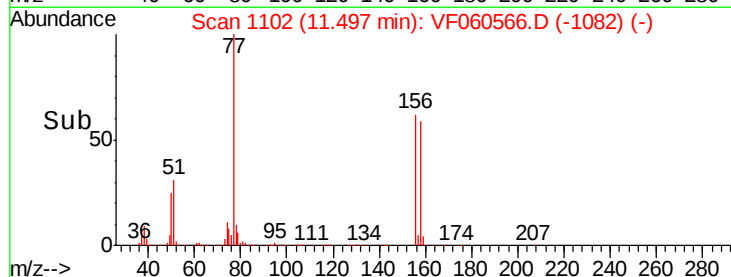
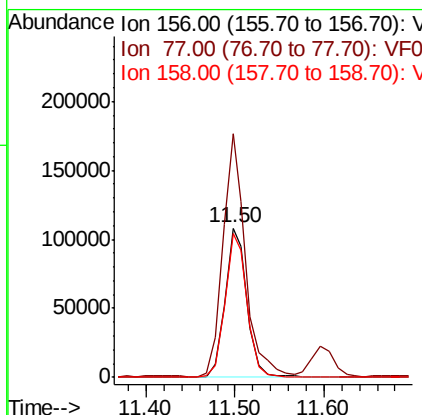
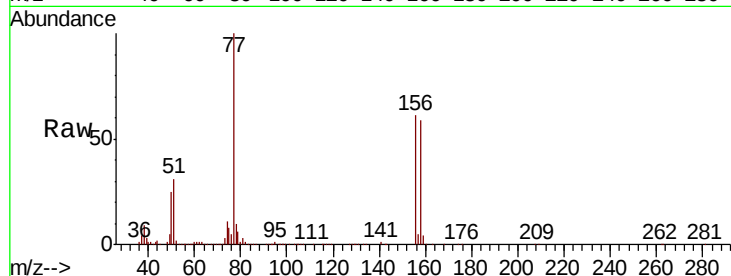
#77
Bromobenzene
Concen: 52.529 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Lower	Upper
156	100		
77	163.2	89.3	268.1
158	96.3	50.0	150.1

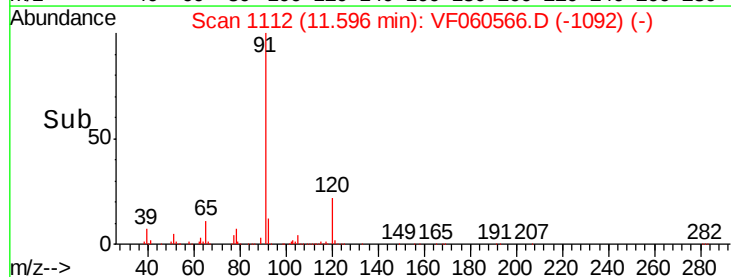
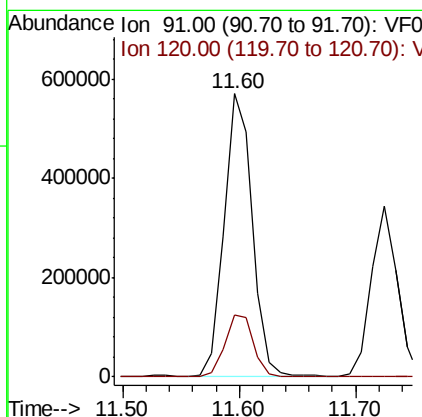
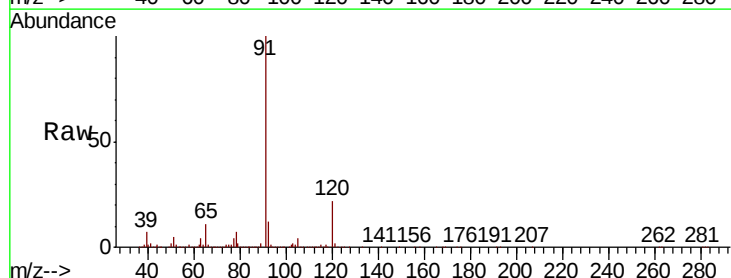
Manual Integrations
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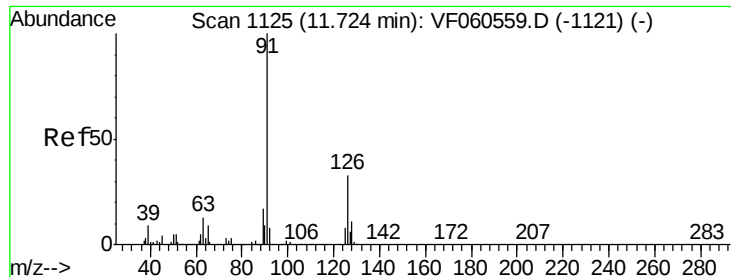
MMDadoda
11/5/2018 3:55:40 PM



#78
n-propylbenzene
Concen: 49.907 ug/l
RT: 11.60 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.9	10.5	31.6





#79

2-Chlorotoluene

Concen: 49.023 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

ICVVF110218

Tot Ion: 91 Resp: 533317

Ion Ratio Lower Upper

91 100

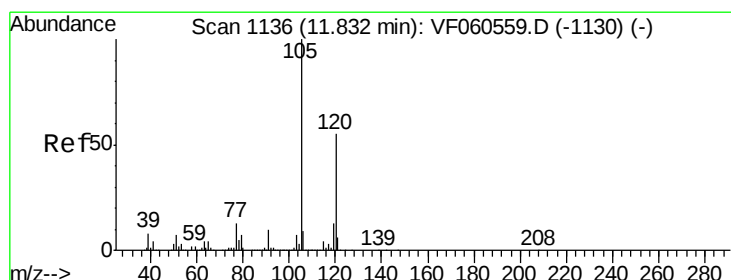
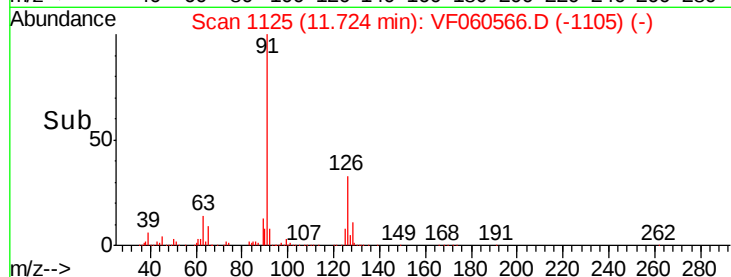
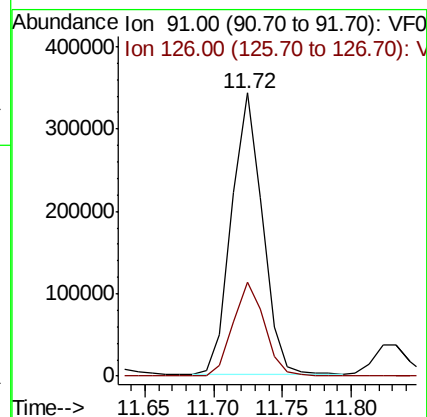
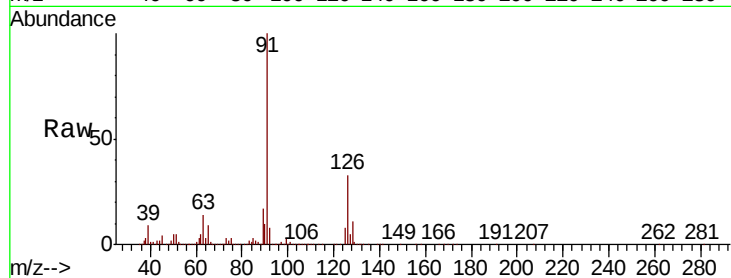
126 33.3 16.5 49.5

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#80

1,3,5-Trimethylbenzene

Concen: 46.450 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060566.D

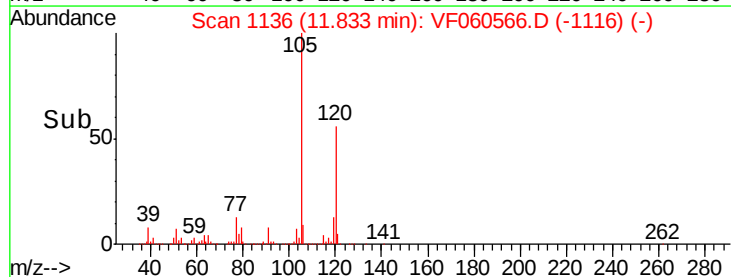
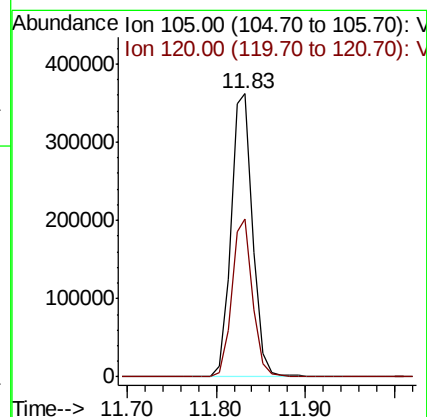
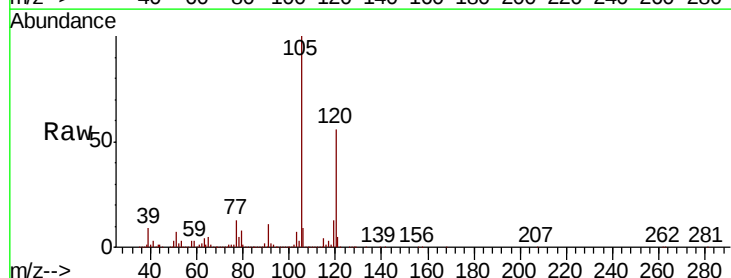
Acq: 2 Nov 2018 18:16

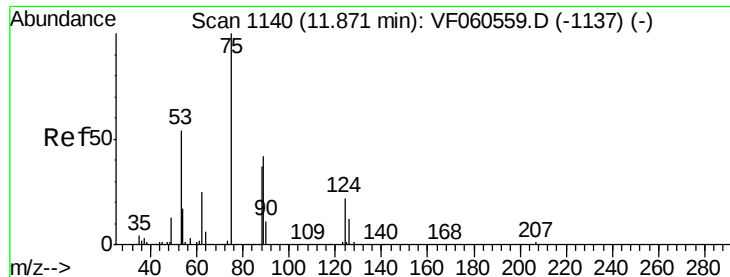
Tgt Ion: 105 Resp: 623373

Ion Ratio Lower Upper

105 100

120 55.9 27.6 82.8





#81

trans-1,4-Dichloro-2-butene

Concen: 53.389 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

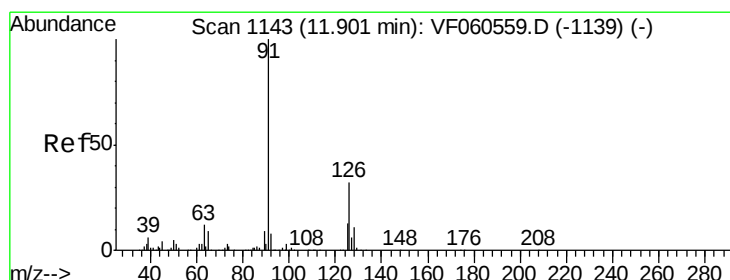
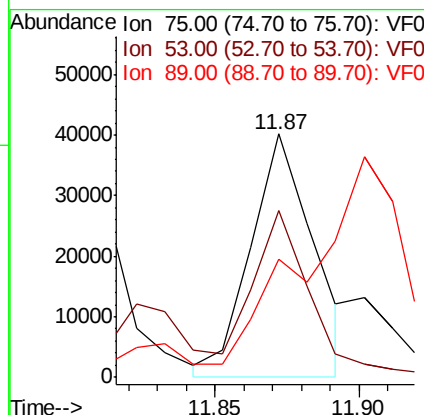
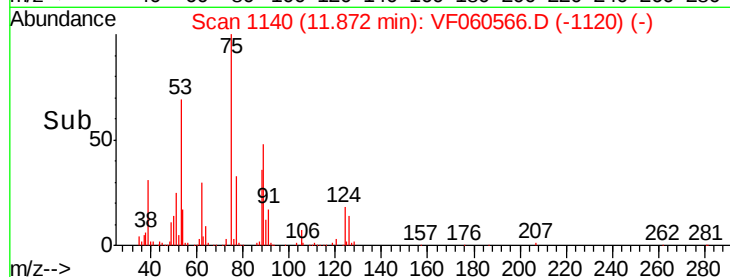
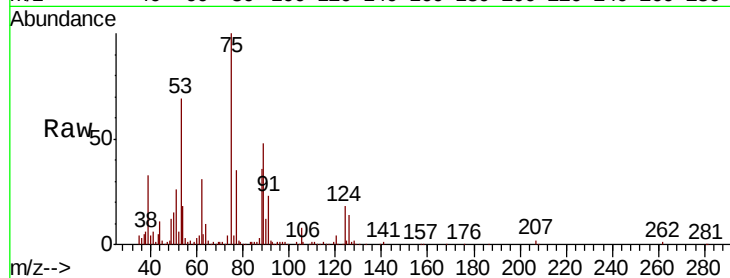
ClientSampleId :

ICVVF110218

Tot Ion:	75	Resp:	61280
Ion	Ratio	Lower	Upper
75	100		
53	68.8	51.6	77.4
89	48.3	36.7	55.1

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#82

4-Chlorotoluene

Concen: 49.348 ug/l

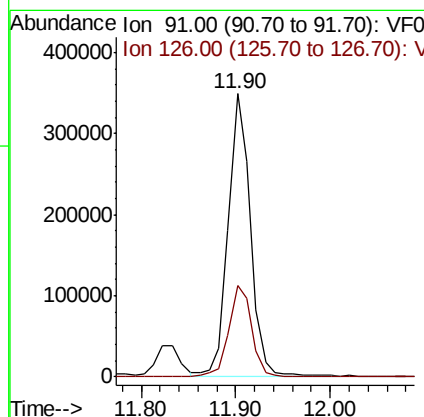
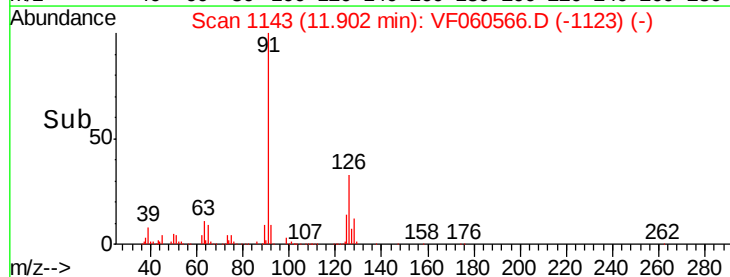
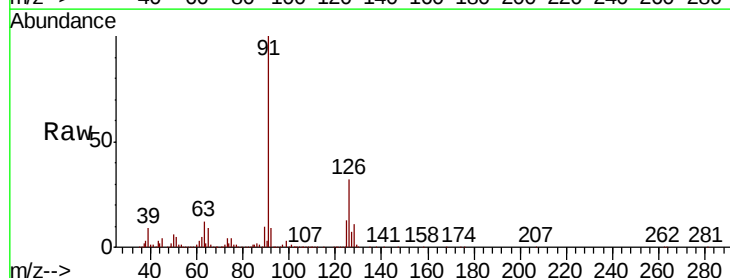
RT: 11.90 min Scan# 1143

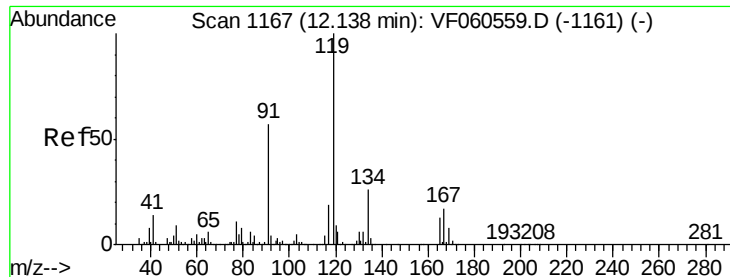
Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Tgt Ion:	91	Resp:	560105
Ion	Ratio	Lower	Upper
91	100		
126	32.4	15.9	47.7





#83

tert-Butylbenzene

Concen: 48.223 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

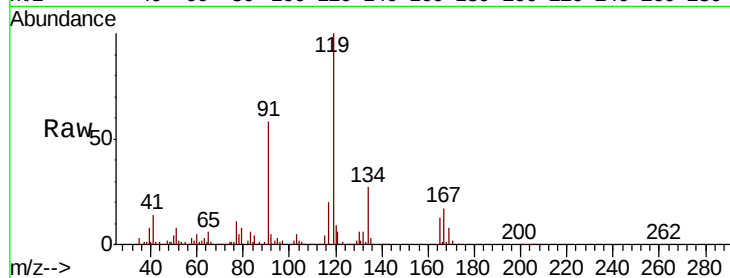
ClientSampleId :

ICVVF110218

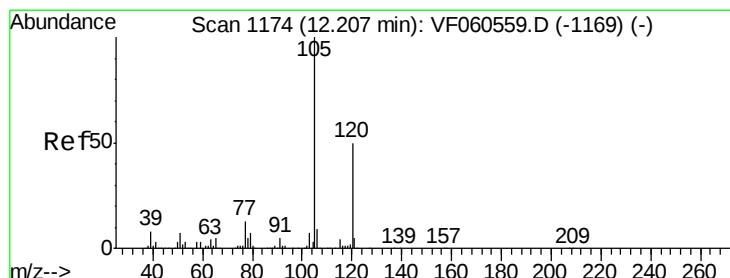
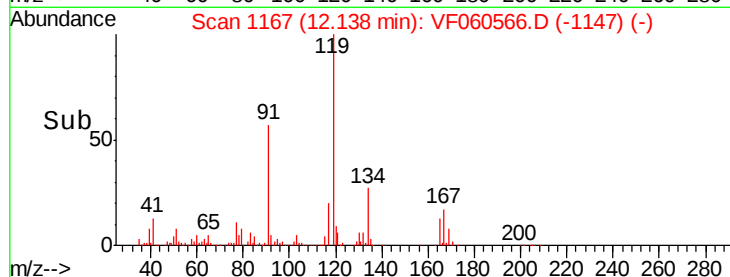
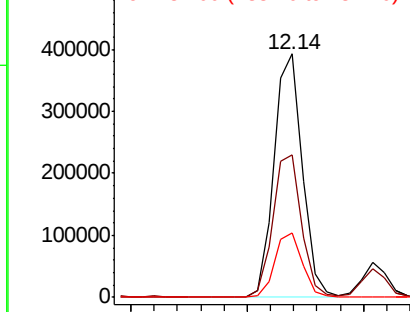
Tot Ion:	119	Resp:	661144
Ion Ratio	Lower	Upper	
119	100		
91	58.5	28.8	86.4
134	26.6	13.2	39.6

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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 49.357 ug/l

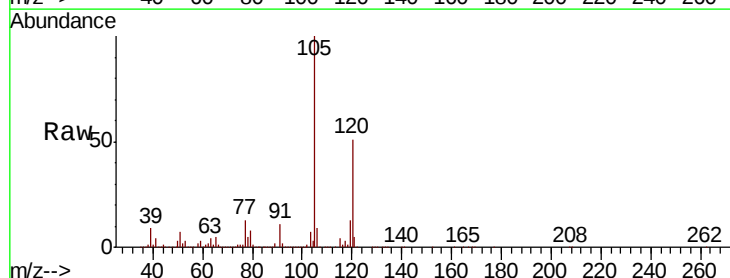
RT: 12.21 min Scan# 1174

Delta R.T. 0.00 min

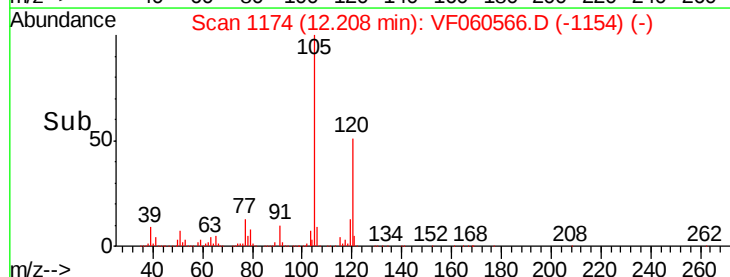
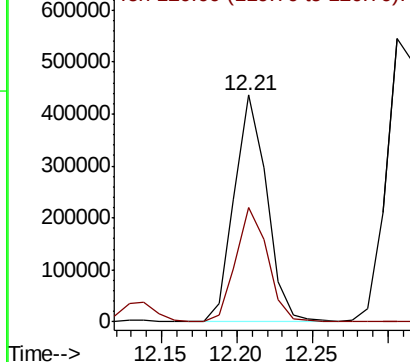
Lab File: VF060566.D

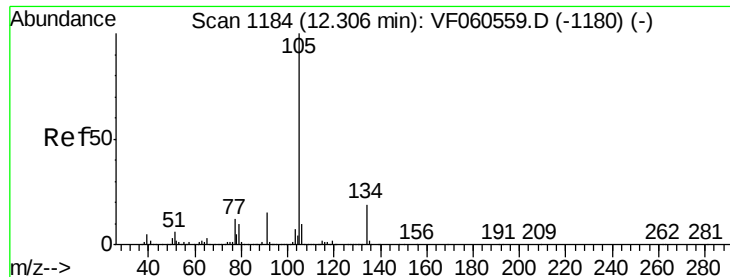
Acq: 2 Nov 2018 18:16

Tgt Ion:	105	Resp:	648671
Ion Ratio	Lower	Upper	
105	100		
120	50.6	25.6	76.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





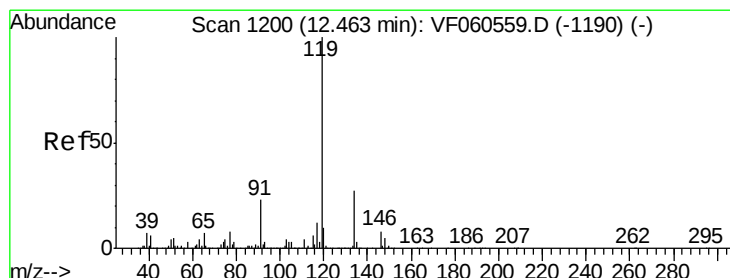
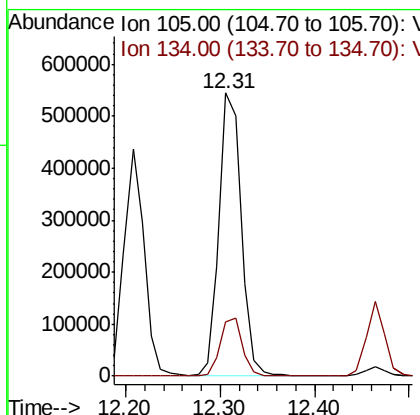
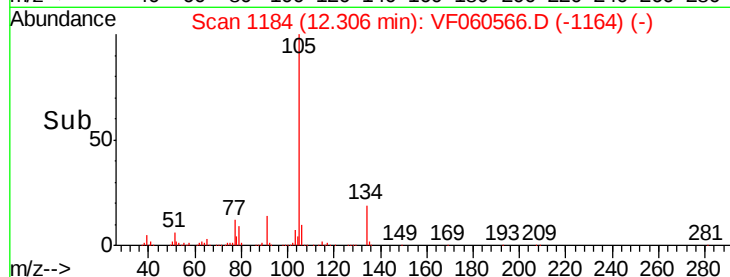
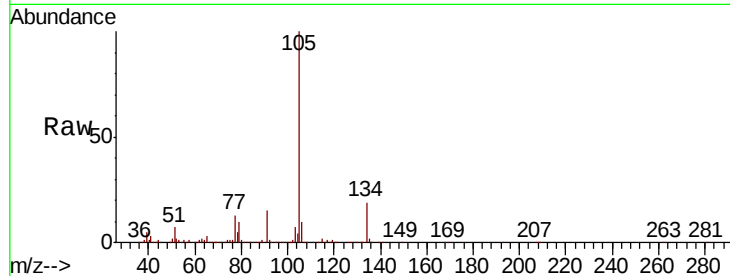
#85
 sec-Butylbenzene
 Concen: 47.178 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF110218

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.7	29.1

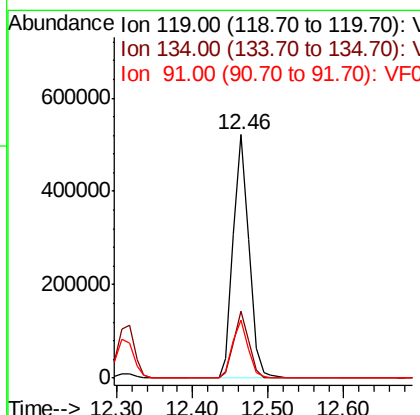
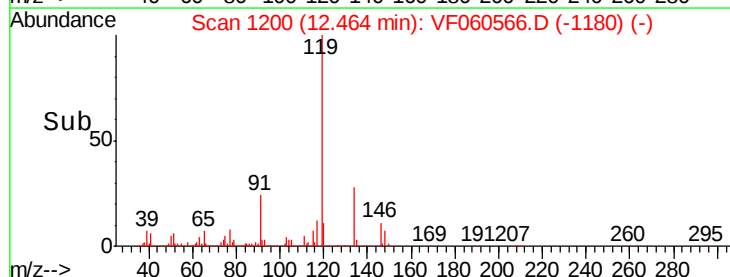
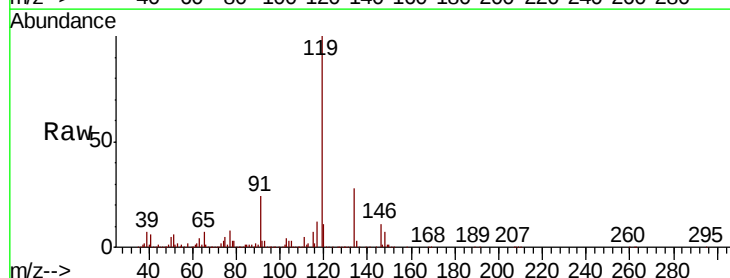
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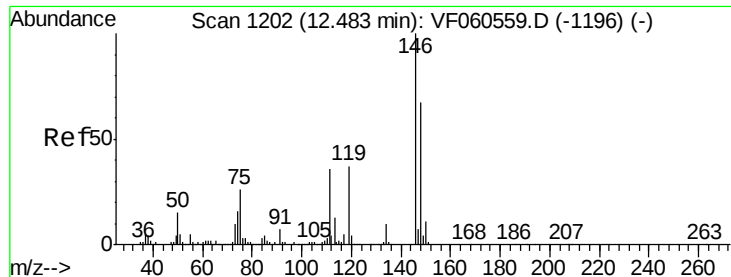
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 11/5/2018 3:55:40 PM



#86
 p-Isopropyltoluene
 Concen: 47.976 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.8	13.6	40.7
91	23.8	11.4	34.2





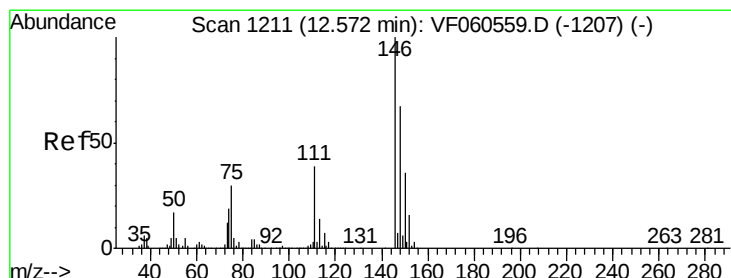
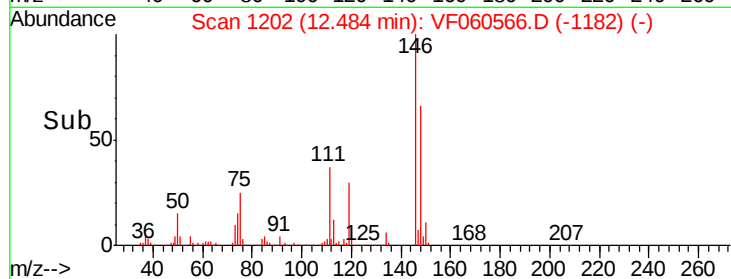
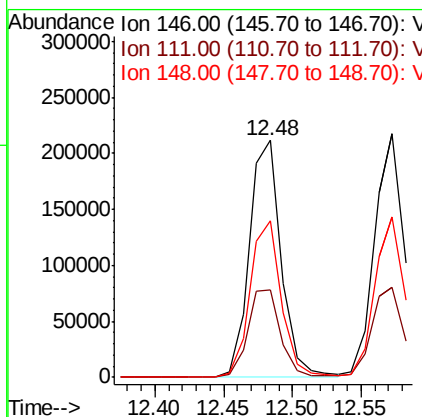
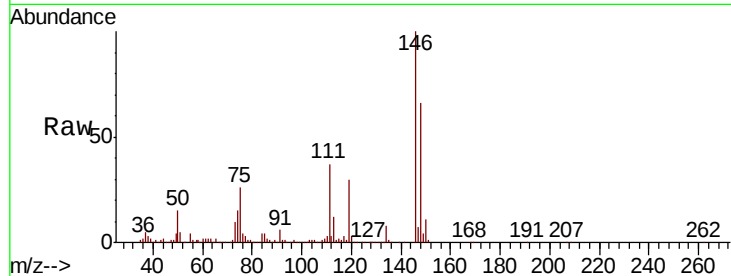
#87
 1,3-Dichlorobenzene
 Concen: 48.842 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF110218

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.3	54.8
148	66.4	33.5	100.4

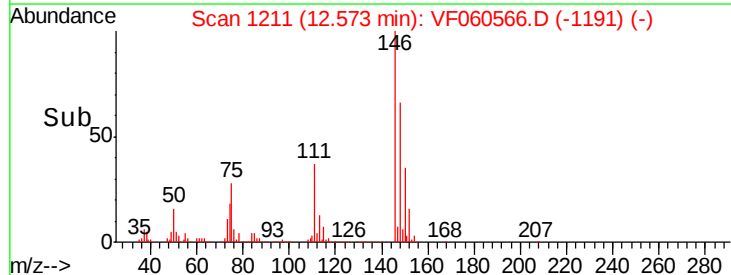
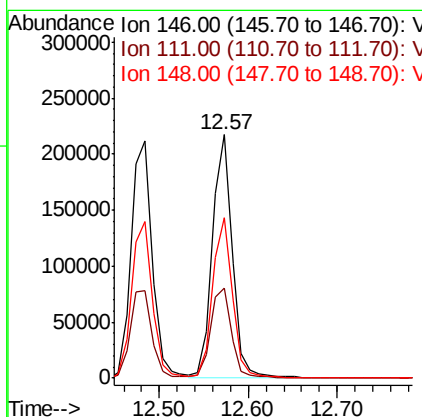
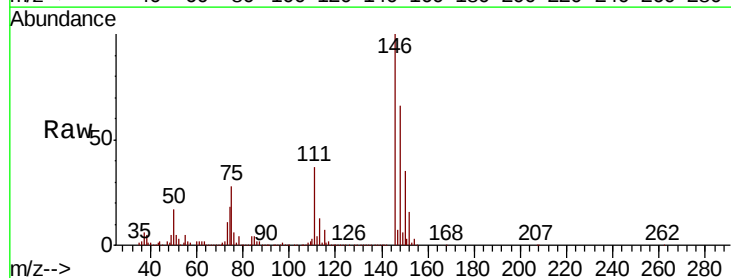
Manual Integrations
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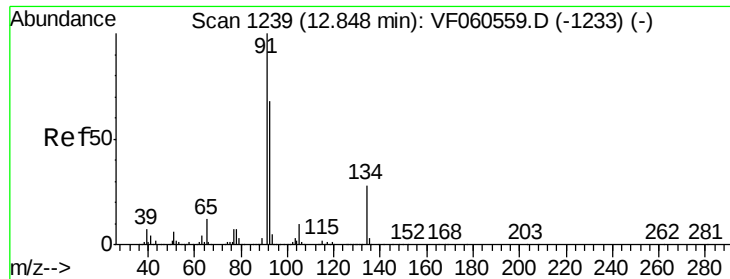
MMDadoda
 11/5/2018 3:55:40 PM



#88
 1,4-Dichlorobenzene
 Concen: 50.819 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	19.7	59.1
148	65.9	33.7	101.1





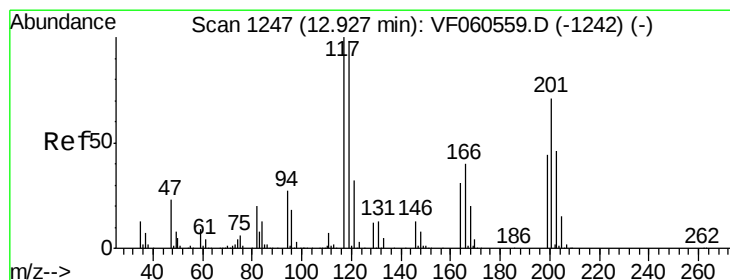
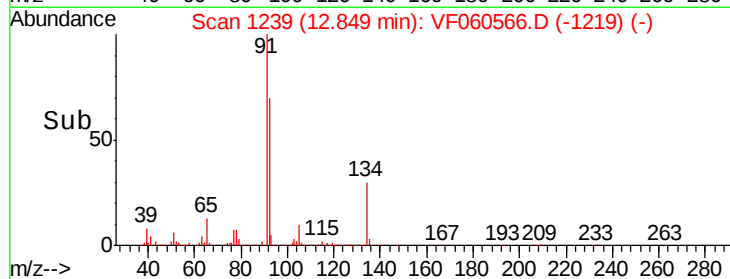
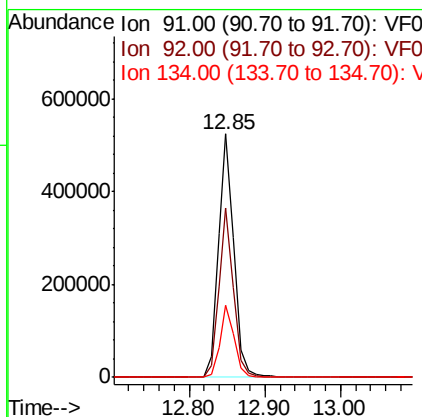
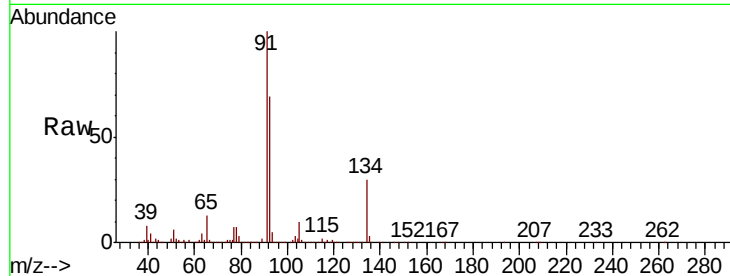
#89
n-Butylbenzene
Concen: 49.681 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Lower	Upper
91	100		
92	69.5	34.1	102.2
134	29.6	13.9	41.6

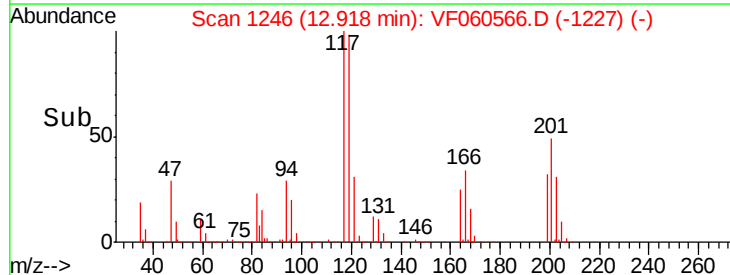
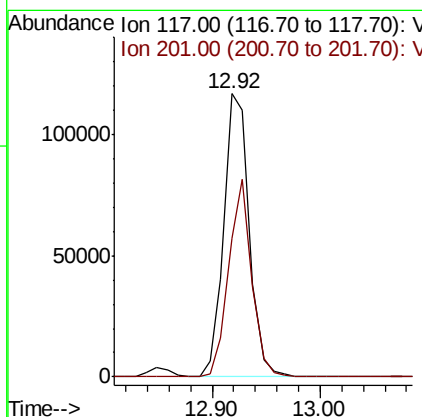
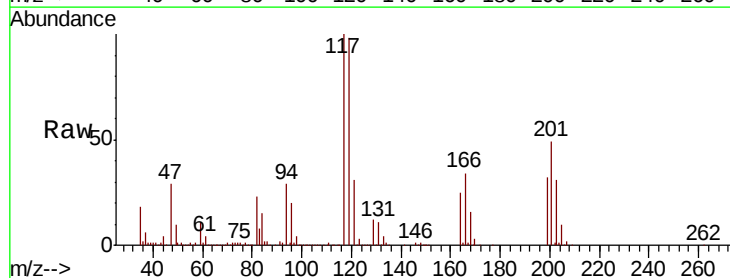
Manual Integrations
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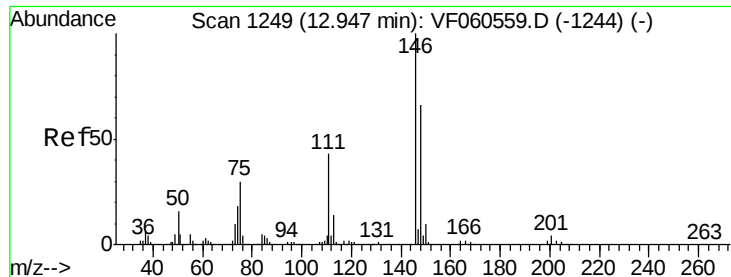
MMDadoda
11/5/2018 3:55:40 PM



#90
Hexachloroethane
Concen: 48.301 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	49.1	35.2	105.6





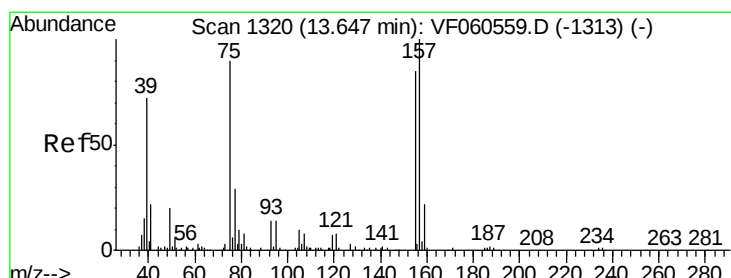
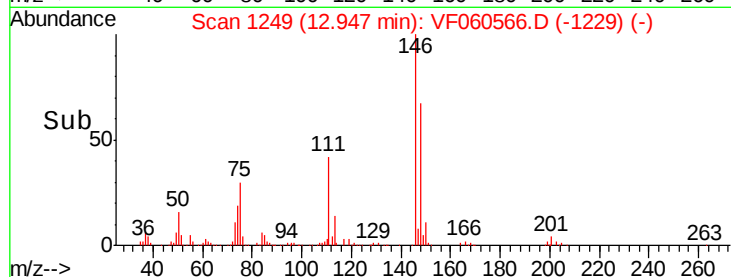
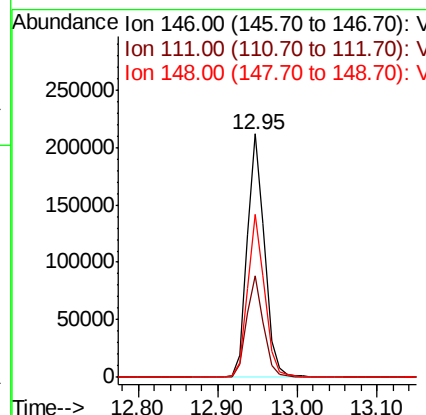
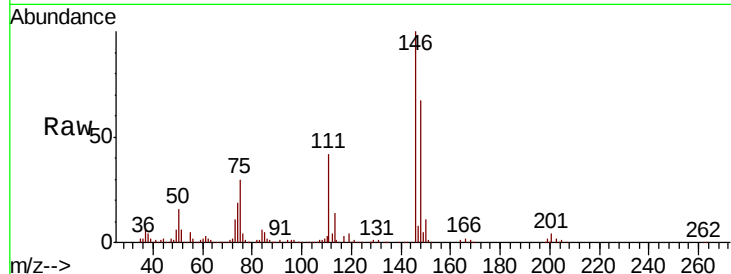
#91
 1,2-Dichlorobenzene
 Concen: 48.729 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF110218

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.3	64.0
148	67.0	32.9	98.7

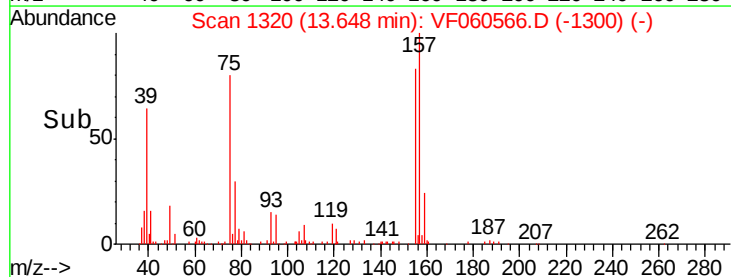
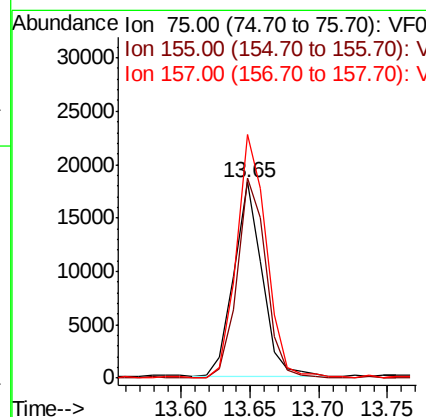
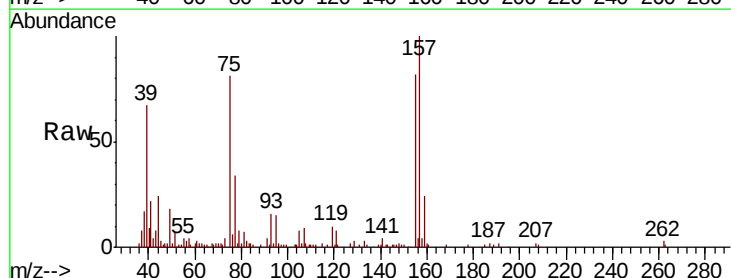
Manual Integrations
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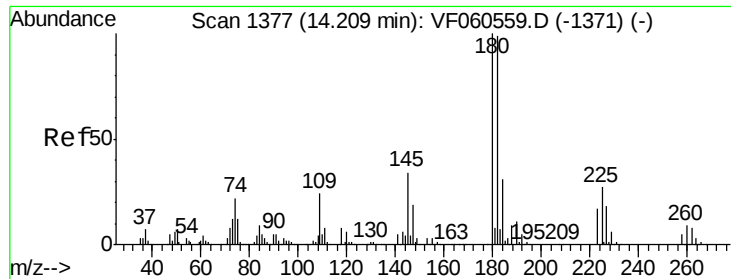
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.369 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF060566.D
 Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.1	47.3	141.8
157	124.1	55.3	165.9





#93

1,2,4-Trichlorobenzene

Concen: 51.209 ug/l

RT: 14.21 min Scan# 1377

Delta R.T. 0.00 min

Lab File: VF060566.D

Acq: 2 Nov 2018 18:16

Instrument :

MSVOA_F

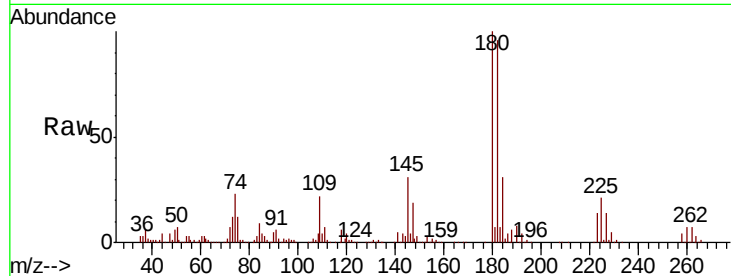
ClientSampleId :

ICVVF110218

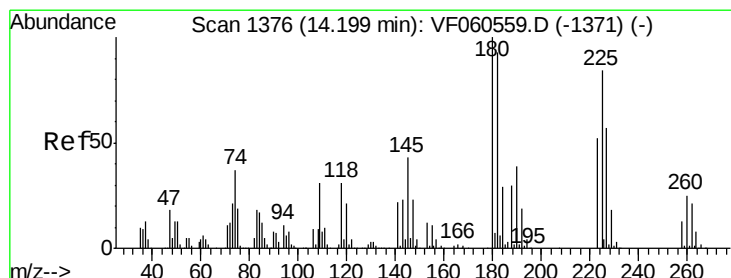
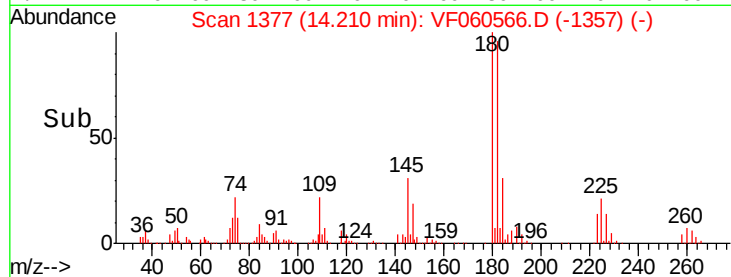
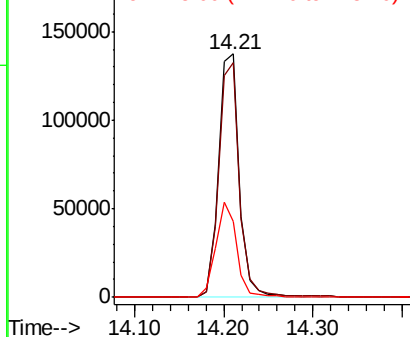
Tot Ion:	180	Resp:	227586
Ion Ratio	Lower	Upper	
180	100		
182	96.2	49.7	149.1
145	31.3	16.9	50.7

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:40 PM



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V



#94

Hexachlorobutadiene

Concen: 49.969 ug/l

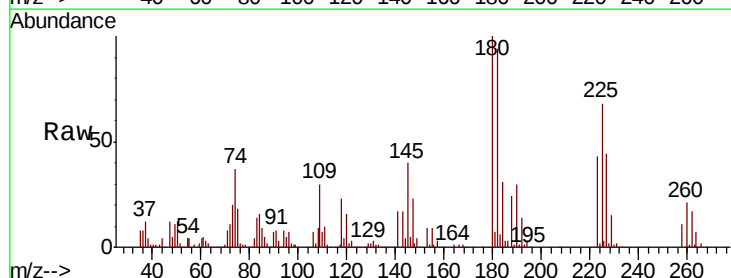
RT: 14.20 min Scan# 1376

Delta R.T. 0.00 min

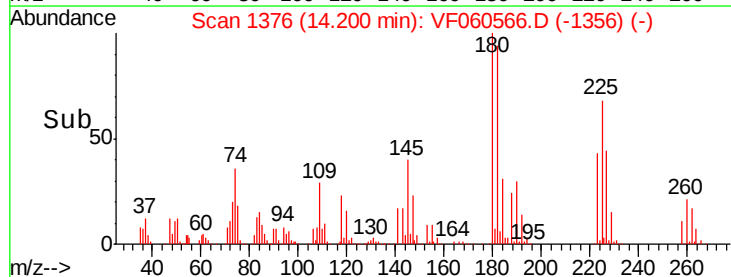
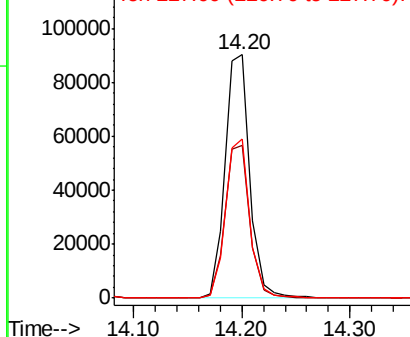
Lab File: VF060566.D

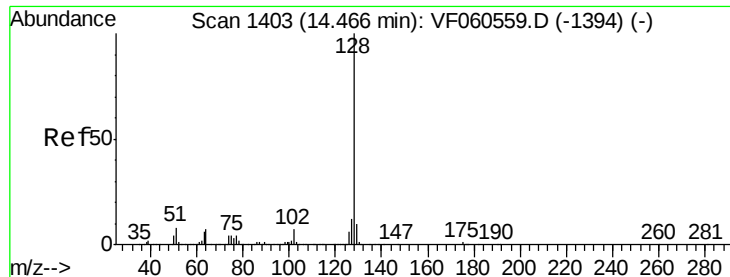
Acq: 2 Nov 2018 18:16

Tgt Ion:	225	Resp:	143902
Ion Ratio	Lower	Upper	
225	100		
223	62.8	30.9	92.5
227	65.2	33.9	101.6



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





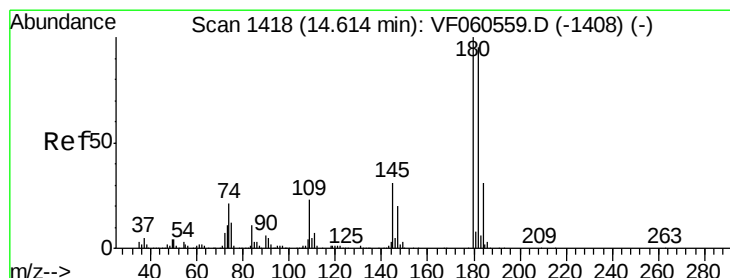
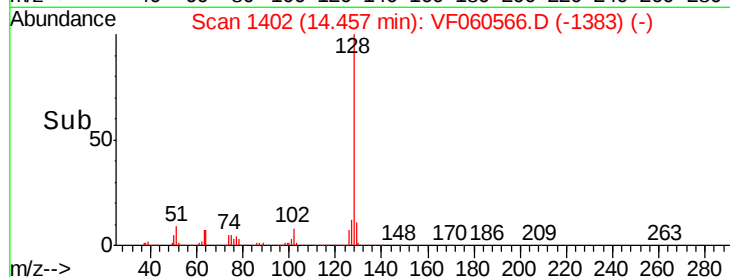
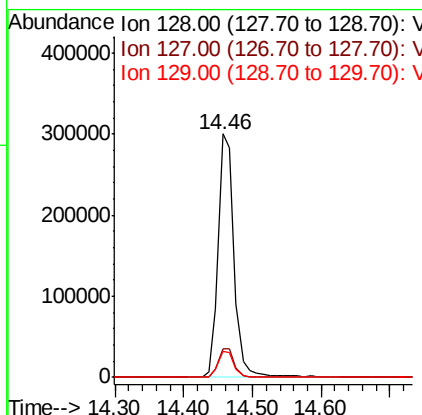
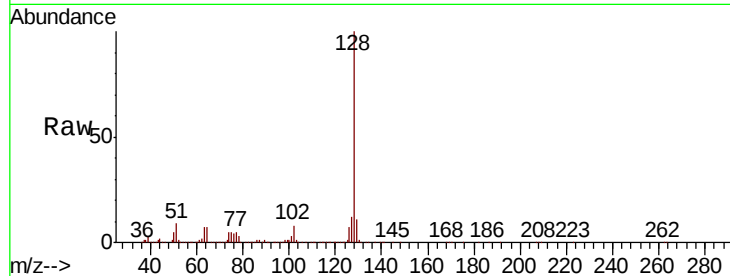
#95
Naphthalene
Concen: 54.477 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
ICVVF110218

Tot Ion	Ratio	Resp	Lower	Upper
128	100	484587		
127	12.0		9.4	14.0
129	10.6		8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:40 PM



#96
1,2,3-Trichlorobenzene
Concen: 53.673 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF060566.D
Acq: 2 Nov 2018 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	225336		
182	96.8		47.3	142.0
145	35.3		15.6	46.8

