

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050719\
 Data File : VF062356.D
 Acq On : 7 May 2019 14:37
 Operator : FY/SY
 Sample : VF0507SBS01
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 11:10:45 AM

Quant Time: May 07 15:56:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	309954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	409384	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	331446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	194658	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	155141	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	
35) Dibromofluoromethane	4.30	113	176234	54.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.06%	
50) Toluene-d8	7.71	98	393559	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	
62) 4-Bromofluorobenzene	11.49	95	169507	47.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.00	85	88541	24.682	ug/l	99
3) Chloromethane	1.15	50	55009	23.251	ug/l	93
4) Vinyl Chloride	1.18	62	51404	21.783	ug/l	96
5) Bromomethane	1.40	94	42386	22.419	ug/l	96
6) Chloroethane	1.45	64	27981	23.584	ug/l	96
7) Trichlorofluoromethane	1.56	101	111403m	22.753	ug/l	
8) Diethyl Ether	1.70	74	17156	23.157	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	1.91	101	66294	23.716	ug/l	96
10) Methyl Iodide	1.99	142	93390	20.273	ug/l	97
11) Tert butyl alcohol	2.70	59	18172	109.768	ug/l	95
12) 1,1-Dichloroethene	1.87	96	50364	21.193	ug/l	99
13) Acrolein	2.09	56	12091	105.996	ug/l	87
14) Allyl chloride	2.19	41	44426	21.163	ug/l	91
15) Acrylonitrile	3.08	53	37729	120.311	ug/l	94
16) Acetone	2.34	43	59658	100.679	ug/l	95
17) Carbon Disulfide	1.93	76	115942m	22.376	ug/l	
18) Methyl Acetate	2.45	43	22092	18.469	ug/l	98
19) Methyl tert-butyl Ether	2.54	73	113703	23.179	ug/l	97
20) Methylene Chloride	2.33	84	45849m	21.386	ug/l	
21) trans-1,2-Dichloroethene	2.41	96	53494m	23.627	ug/l	
22) Diisopropyl ether	2.94	45	152573	23.255	ug/l	97
23) Vinyl Acetate	3.34	43	337214	115.322	ug/l	100
24) 1,1-Dichloroethane	3.00	63	100282	25.290	ug/l #	93
25) 2-Butanone	4.51	43	77960	104.723	ug/l	98
26) 2,2-Dichloropropane	3.76	77	51479	23.248	ug/l	100
27) cis-1,2-Dichloroethene	3.64	96	64204	22.686	ug/l	98
28) Bromochloromethane	3.89	49	36247	20.156	ug/l #	98
29) Tetrahydrofuran	4.27	42	35003	102.305	ug/l	98
30) Chloroform	4.04	83	126555	23.624	ug/l	98
31) Cyclohexane	3.86	56	72438m	22.887	ug/l	
32) 1,1,1-Trichloroethane	4.29	97	82665	18.005	ug/l	94
36) 1,1-Dichloropropene	4.46	75	82748	23.530	ug/l	98
37) Ethyl Acetate	4.30	43	33651	21.578	ug/l #	95
38) Carbon Tetrachloride	4.17	117	88366	22.708	ug/l	97

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Manual Integrations
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MMDadoda
 5/8/2019 11:10:45 AM

Quant Time: May 07 15:56:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	80944	22.950	ug/l	99
40) Benzene	4.81	78	177390	22.906	ug/l	99
41) Methacrylonitrile	4.93	41	18483	21.919	ug/l	93
42) 1,2-Dichloroethane	5.12	62	76698	23.681	ug/l	98
43) Isopropyl Acetate	7.11	43	33394	20.877	ug/l #	92
44) Trichloroethene	5.68	130	69434	24.408	ug/l	93
45) 1,2-Dichloropropane	6.40	63	38432	21.910	ug/l	100
46) Dibromomethane	6.26	93	33903	23.312	ug/l	99
47) Bromodichloromethane	6.54	83	82153	22.594	ug/l	94
48) Methyl methacrylate	6.87	41	23607	20.883	ug/l	95
49) 1,4-Dioxane	6.87	88	5866	497.994	ug/l #	83
51) 4-Methyl-2-Pentanone	8.40	43	134433	110.911	ug/l	99
52) Toluene	7.78	92	105712	22.127	ug/l	99
53) t-1,3-Dichloropropene	8.42	75	62183	22.611	ug/l	98
54) cis-1,3-Dichloropropene	7.45	75	75337	23.538	ug/l	95
55) 1,1,2-Trichloroethane	8.63	97	35048	23.110	ug/l	90
56) Ethyl methacrylate	8.75	69	31749	19.832	ug/l	97
57) 1,3-Dichloropropane	8.99	76	52258	22.812	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.44	63	52504	109.086	ug/l	93
59) 2-Hexanone	9.62	43	87425	104.291	ug/l	96
60) Dibromochloromethane	8.86	129	55997	22.576	ug/l	97
61) 1,2-Dibromoethane	9.13	107	38837	21.788	ug/l	93
64) Tetrachloroethene	8.30	164	65584	24.374	ug/l	96
65) Chlorobenzene	9.92	112	131009	23.889	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.05	131	64796	23.422	ug/l	98
67) Ethyl Benzene	10.02	91	221391	23.055	ug/l	99
68) m/p-Xylenes	10.25	106	162403	45.836	ug/l	99
69) o-Xylene	10.81	106	91730	23.959	ug/l	91
70) Styrene	10.88	104	133288	23.229	ug/l	98
71) Bromoform	10.87	173	32973	21.755	ug/l #	98
73) Isopropylbenzene	11.21	105	285739	24.761	ug/l	100
74) N-amyl acetate	11.44	43	54821	22.128	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.77	83	42970	23.781	ug/l	100
76) 1,2,3-Trichloropropane	11.87	75	33486	24.291	ug/l #	100
77) Bromobenzene	11.57	156	73037	24.115	ug/l	95
78) n-propylbenzene	11.67	91	296120	24.102	ug/l	98
79) 2-Chlorotoluene	11.79	91	184421	24.140	ug/l	97
80) 1,3,5-Trimethylbenzene	11.89	105	254164	25.128	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.94	75	12128m	23.405	ug/l	
82) 4-Chlorotoluene	11.96	91	176490	23.390	ug/l	100
83) tert-Butylbenzene	12.19	119	266749	25.094	ug/l	99
84) 1,2,4-Trimethylbenzene	12.26	105	244138	24.664	ug/l	98
85) sec-Butylbenzene	12.36	105	317036	24.503	ug/l	99
86) p-Isopropyltoluene	12.52	119	303681	25.262	ug/l	98
87) 1,3-Dichlorobenzene	12.54	146	137418	24.843	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	122776	22.998	ug/l	98
89) n-Butylbenzene	12.89	91	261243	24.426	ug/l	98
90) Hexachloroethane	12.97	117	72614	24.192	ug/l	100
91) 1,2-Dichlorobenzene	12.99	146	135240	25.260	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.68	75	9400	23.221	ug/l	93

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QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.23	180	121963	25.397	µg/l	97
94) Hexachlorobutadiene	14.22	225	89785	25.085	µg/l	96
95) Naphthalene	14.49	128	170689	23.642	µg/l	100
96) 1,2,3-Trichlorobenzene	14.64	180	117246	25.201	µg/l	99

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

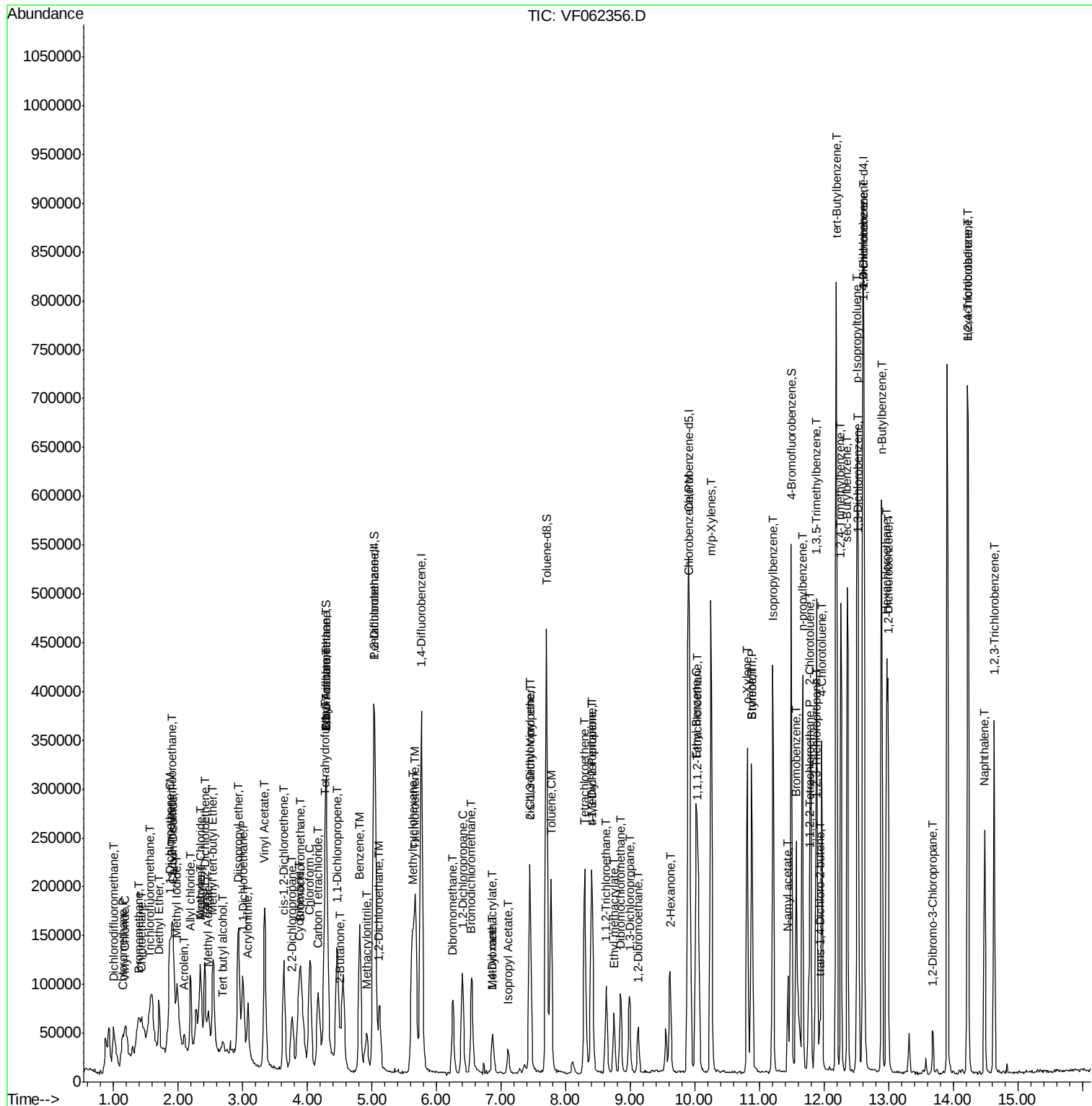
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF050719\
Data File : VF062356.D
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Operator : FY/SY
Sample : VF0507SBSD01
Misc : 5.00g/5mL/MSVOA F/SOIL
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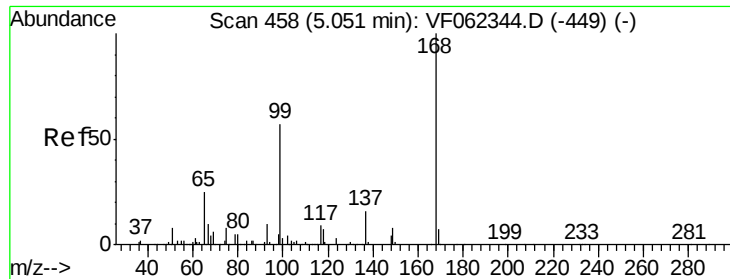
Instrument :
MSVOA_F
ClientSampleId :
VF0507SBSD01

Manual Integrations
APPROVED

MMDadoda
5/8/2019 11:10:45 AM

Quant Time: May 07 15:56:20 2019
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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion:168 Resp: 309954

Ion Ratio Lower Upper

168 100

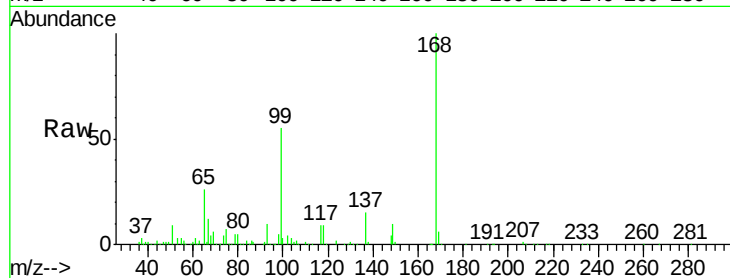
99 55.2 45.9 68.9

Manual Integrations

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5/8/2019 11:10:45 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.04

120000

100000

80000

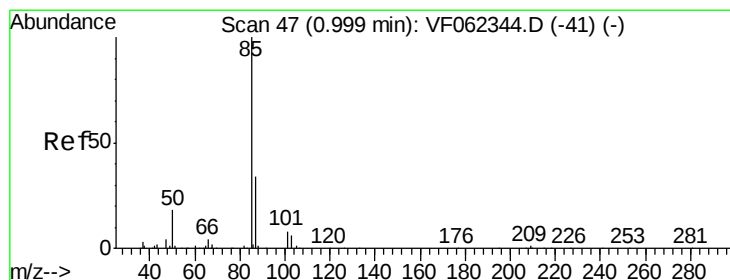
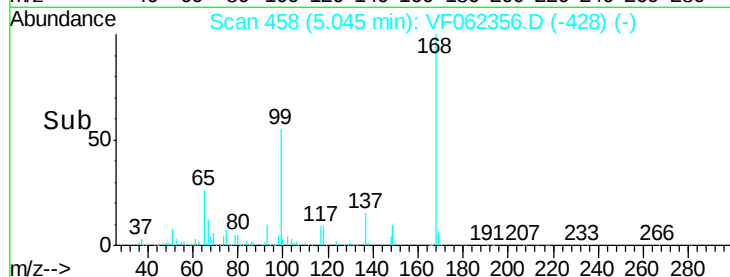
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 24.682 ug/l

RT: 1.00 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062356.D

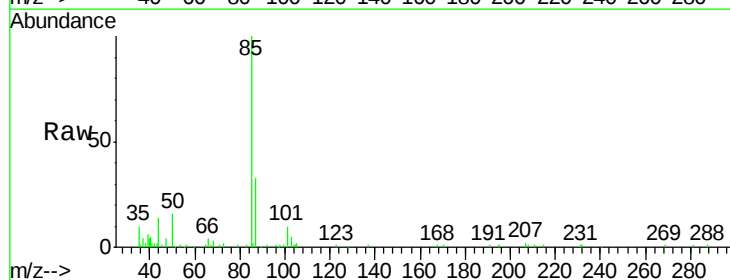
Acq: 7 May 2019 14:37

Tgt Ion: 85 Resp: 88541

Ion Ratio Lower Upper

85 100

87 33.0 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

25000

20000

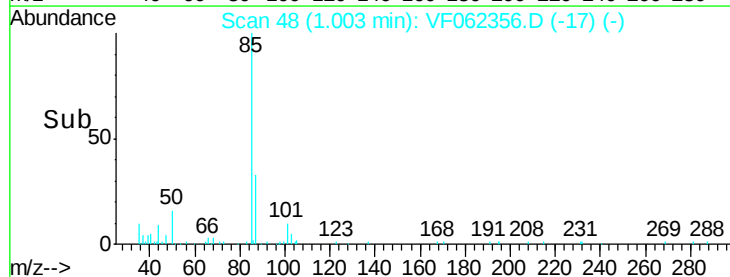
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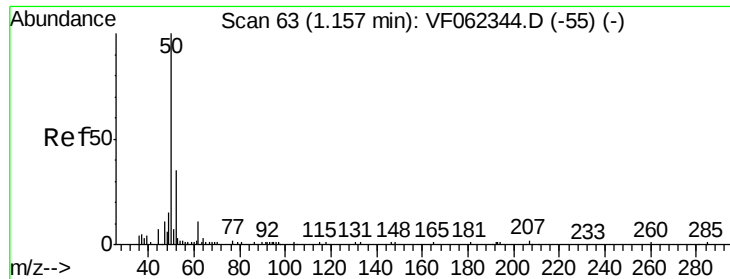
10000

5000

0

Time-->





#3

Chloromethane

Concen: 23.251 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion: 50 Resp: 55009

Ion Ratio Lower Upper

50 100

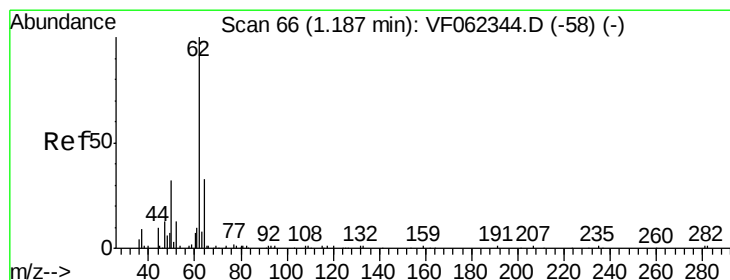
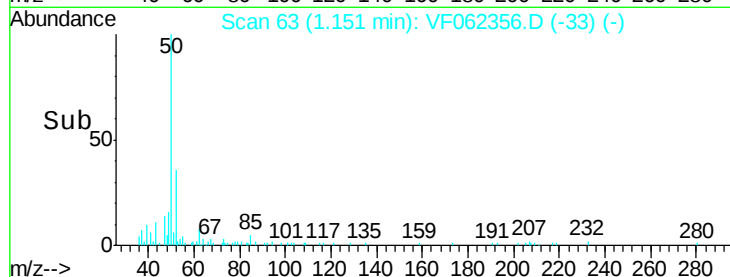
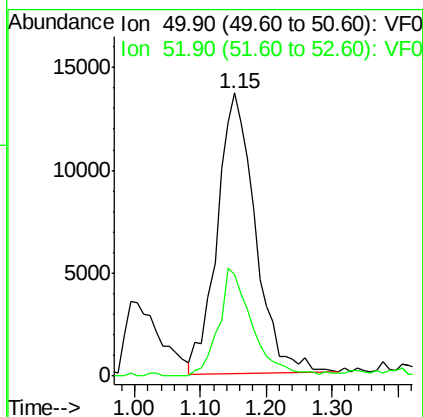
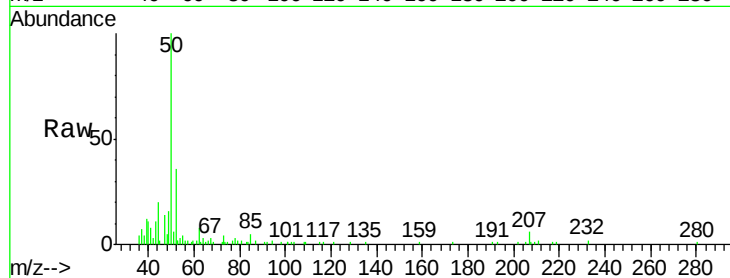
52 36.6 26.1 39.1

Manual Integrations

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5/8/2019 11:10:45 AM



#4

Vinyl Chloride

Concen: 21.783 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062356.D

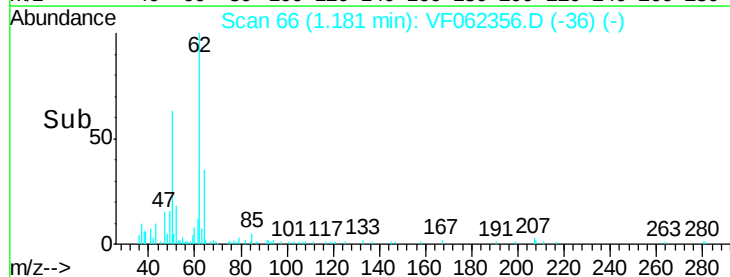
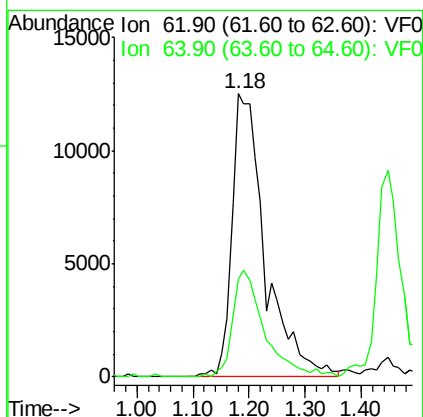
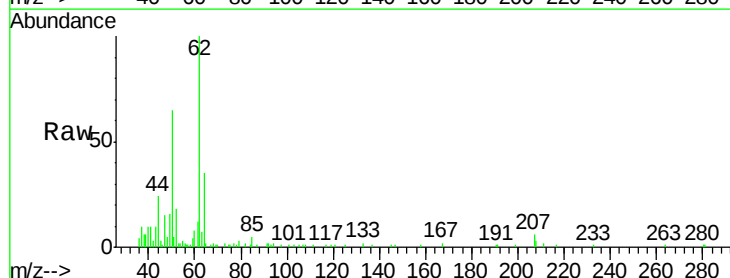
Acq: 7 May 2019 14:37

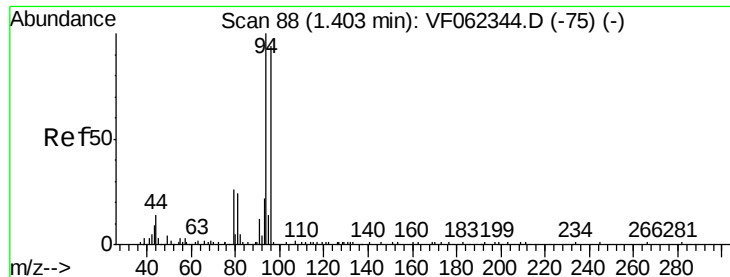
Tgt Ion: 62 Resp: 51404

Ion Ratio Lower Upper

62 100

64 34.7 26.1 39.1





#5

Bromomethane

Concen: 22.419 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBSD01

Tot Ion: 94 Resp: 42386

Ion Ratio Lower Upper

94 100

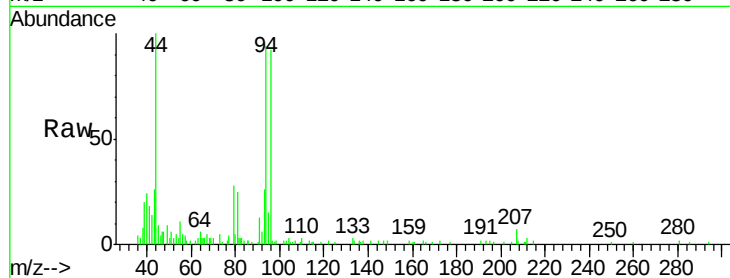
96 98.4 75.4 113.2

Manual Integrations

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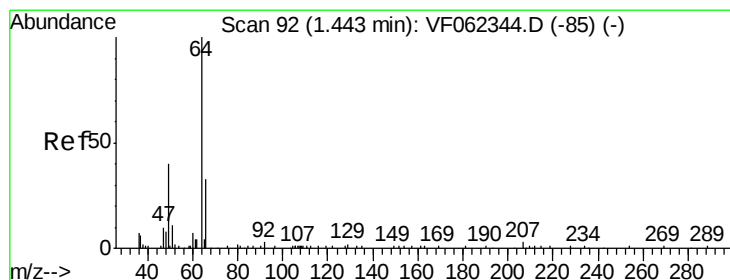
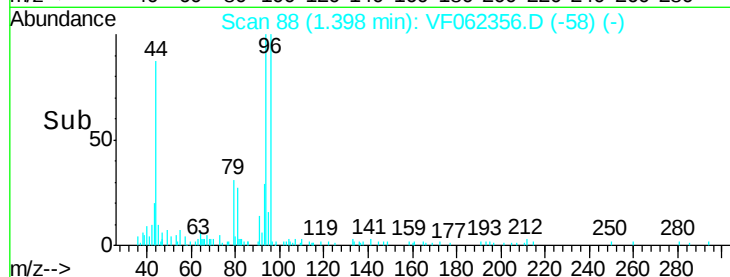
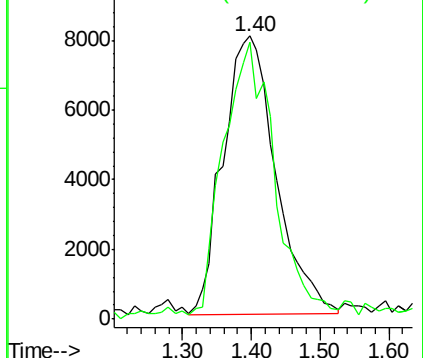
MMDadoda

5/8/2019 11:10:45 AM



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#6

Chloroethane

Concen: 23.584 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062356.D

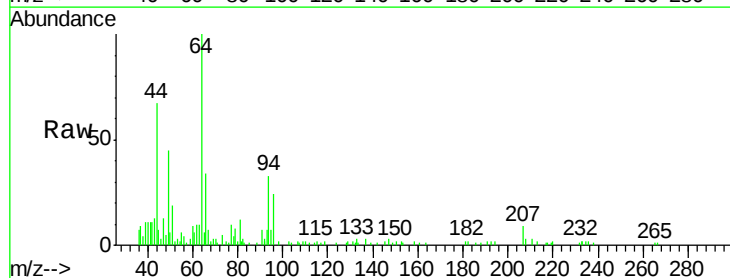
Acq: 7 May 2019 14:37

Tgt Ion: 64 Resp: 27981

Ion Ratio Lower Upper

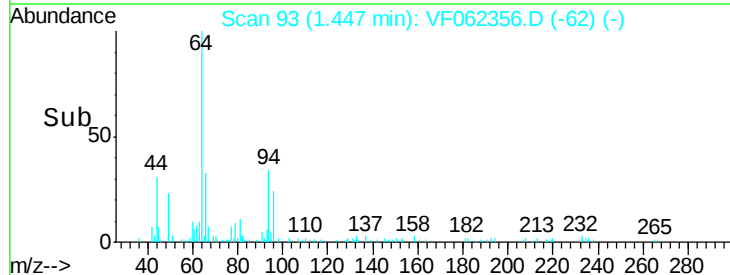
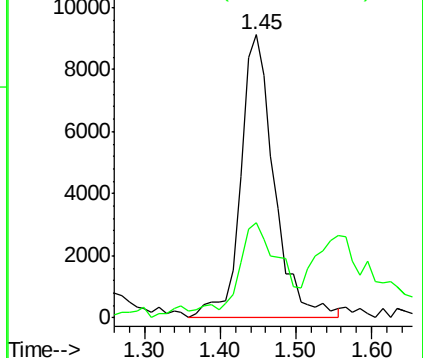
64 100

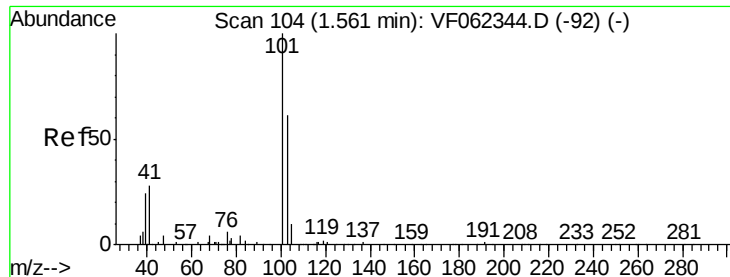
66 31.1 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0





#7

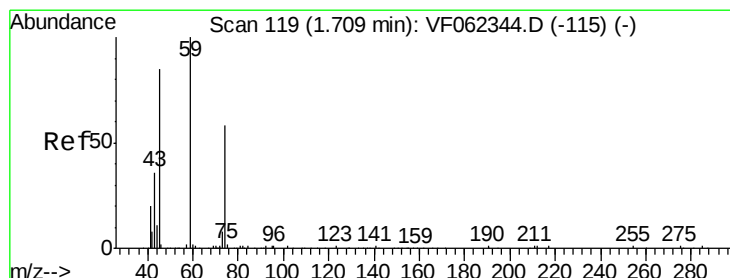
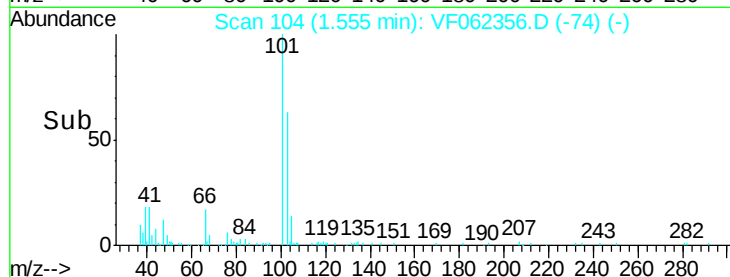
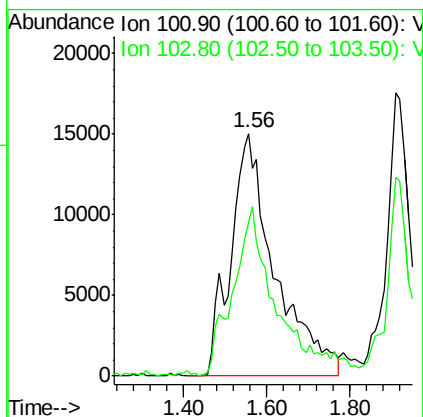
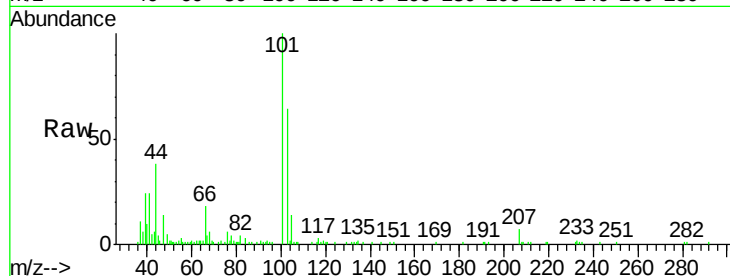
Trichlorofluoromethane
Concen: 22.753 ug/l m
RT: 1.56 min Scan# 104
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	48.5	72.7

Manual Integrations
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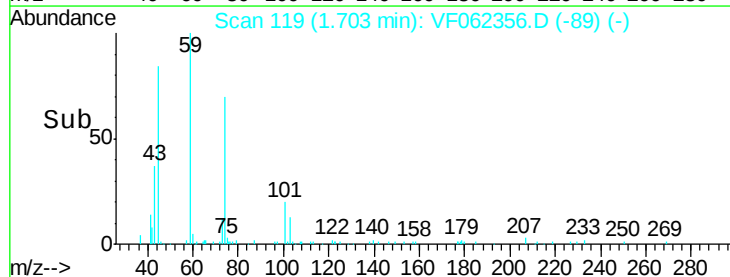
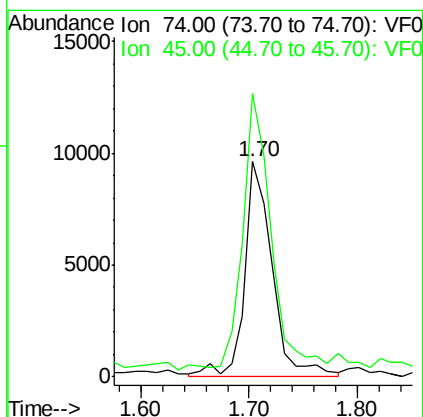
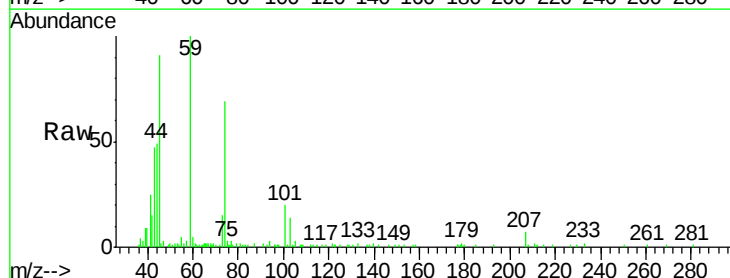
MMDadoda
5/8/2019 11:10:45 AM



#8

Diethyl Ether
Concen: 23.157 ug/l
RT: 1.70 min Scan# 119
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	127.7	73.9	221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.716 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

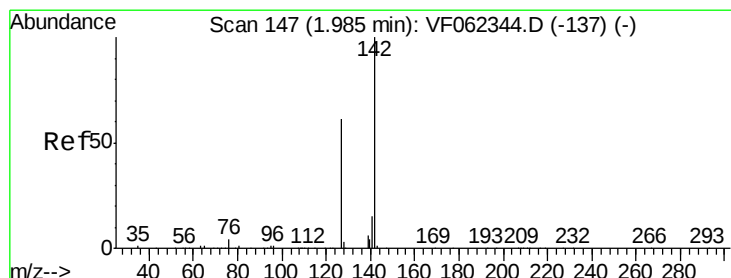
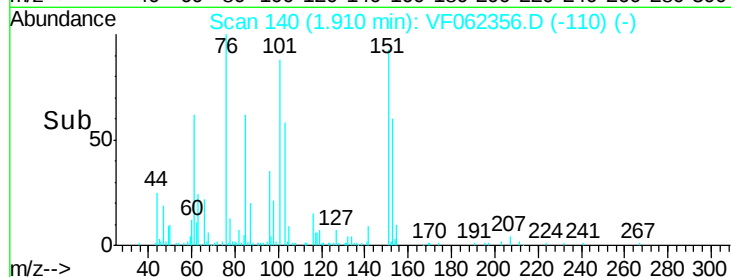
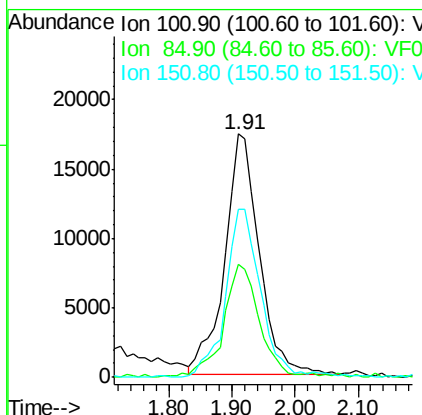
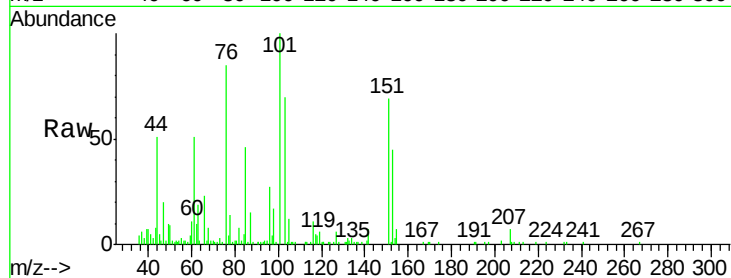
ClientSampleId :

VF0507SBS01

Tot Ion:	101	Resp:	66294
Ion Ratio	Lower	Upper	
101	100		
85	48.9	39.5	59.3
151	69.7	59.9	89.9

Manual Integrations
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MMDadoda
5/8/2019 11:10:45 AM



#10

Methyl Iodide

Concen: 20.273 ug/l

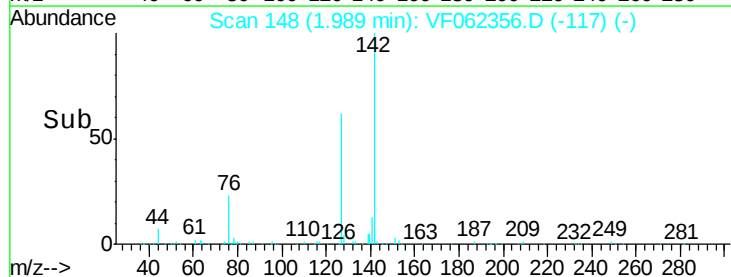
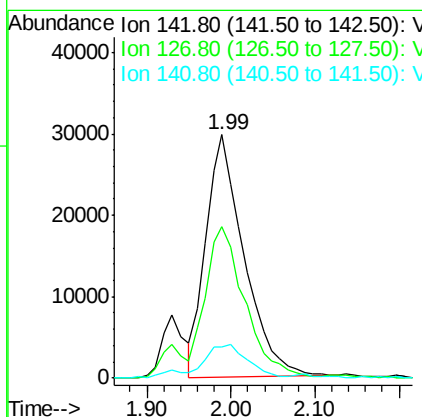
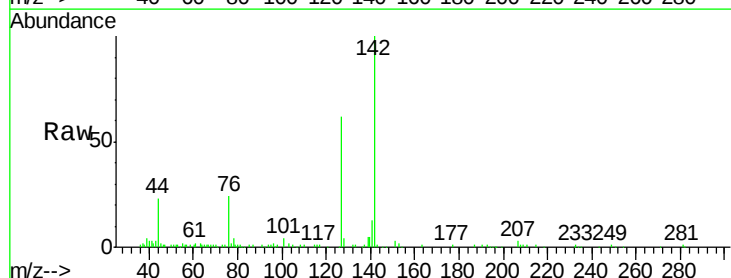
RT: 1.99 min Scan# 148

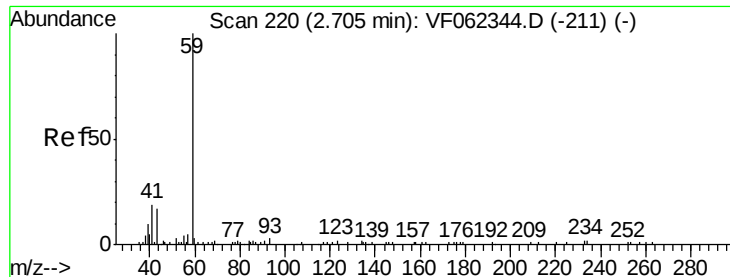
Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion:	142	Resp:	93390
Ion Ratio	Lower	Upper	
142	100		
127	63.2	48.4	72.6
141	15.2	12.2	18.4





#11

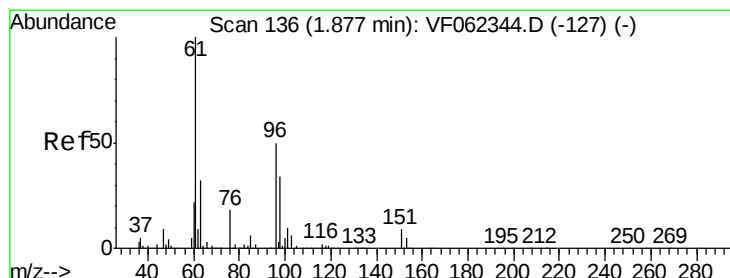
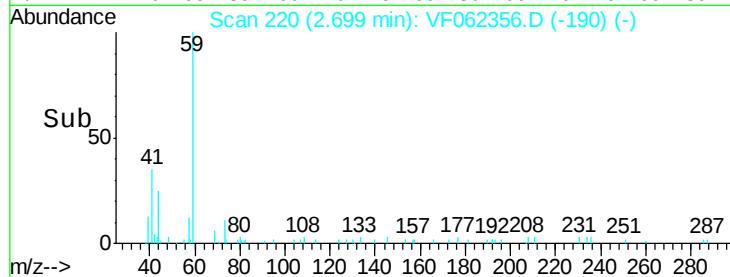
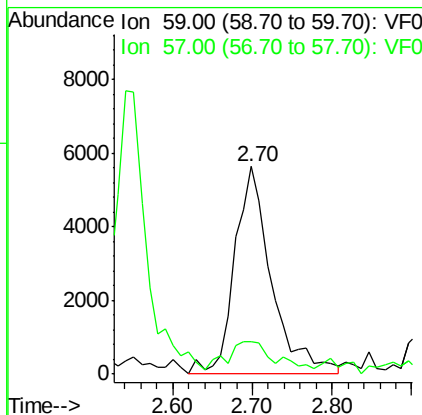
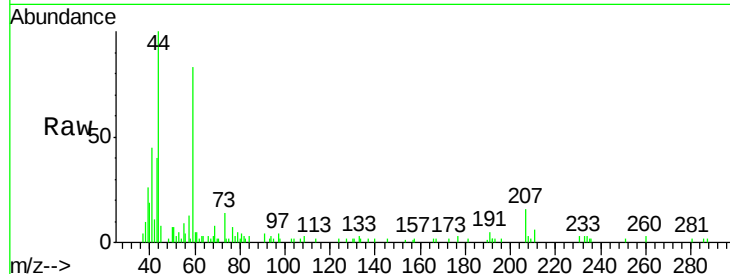
Tert butyl alcohol
Concen: 109.768 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.7	9.3	13.9

Manual Integrations
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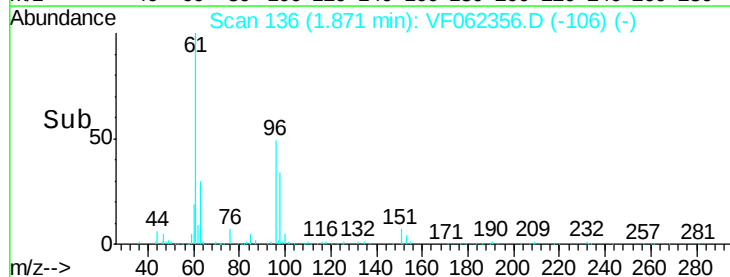
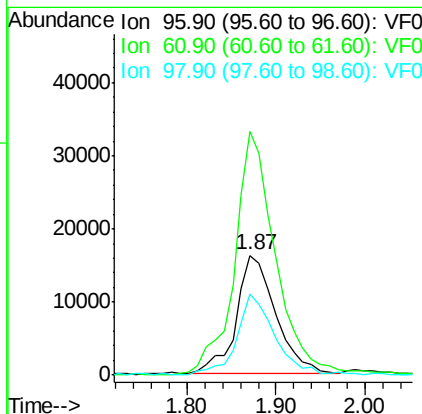
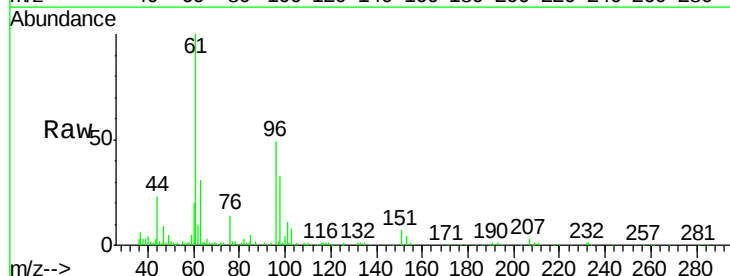
MMDadoda
5/8/2019 11:10:45 AM

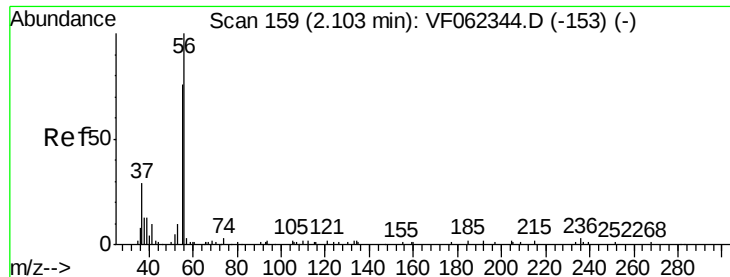


#12

1,1-Dichloroethene
Concen: 21.193 ug/l
RT: 1.87 min Scan# 136
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	202.9	163.2	244.8
98	67.5	55.2	82.8





#13

Acrolein

Concen: 105.996 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.02 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion: 56 Resp: 12091

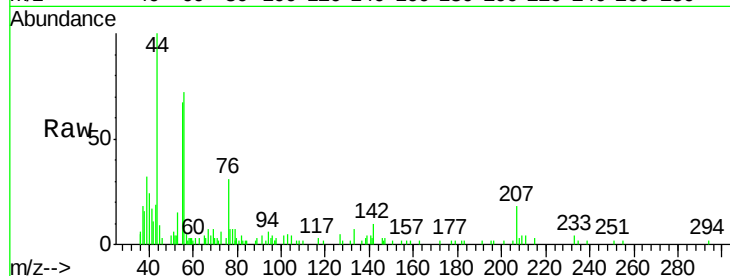
Ion Ratio Lower Upper

56 100

55 84.0 58.4 87.6

Manual Integrations
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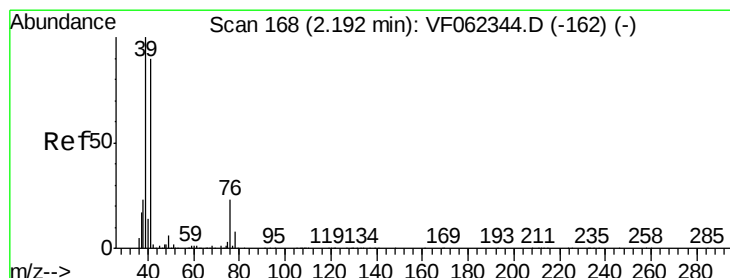
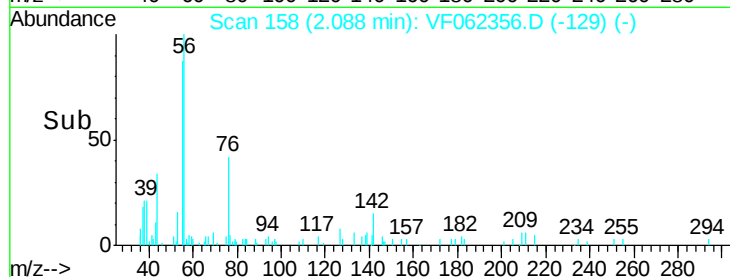


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.09

Time-->



#14

Allyl chloride

Concen: 21.163 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

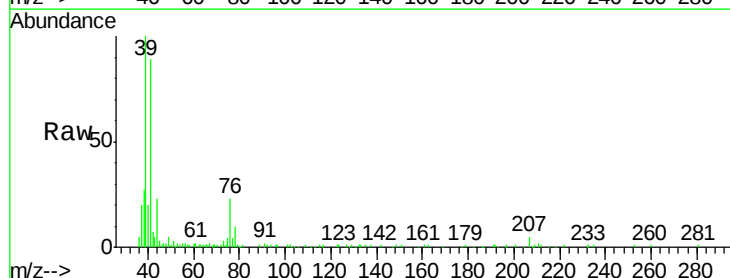
Tgt Ion: 41 Resp: 44426

Ion Ratio Lower Upper

41 100

39 123.6 90.8 136.2

76 23.9 22.2 33.4



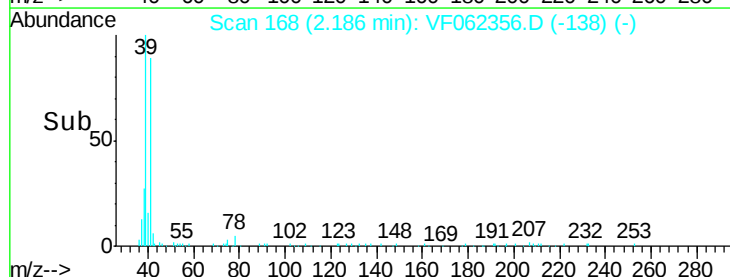
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 75.90 (75.60 to 76.60): VF0

2.19

Time-->





#15

Acrylonitrile

Concen: 120.311 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

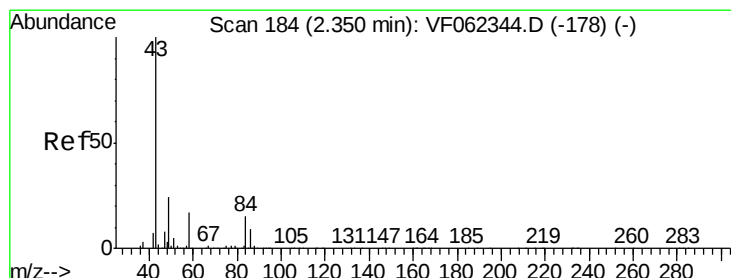
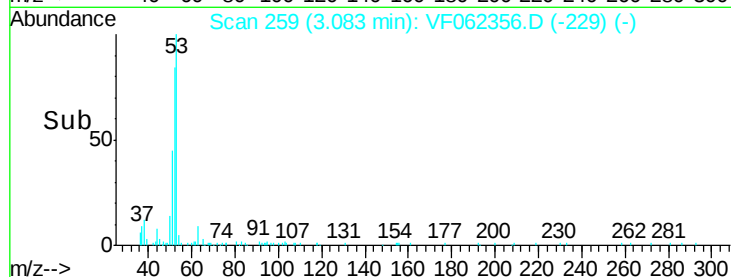
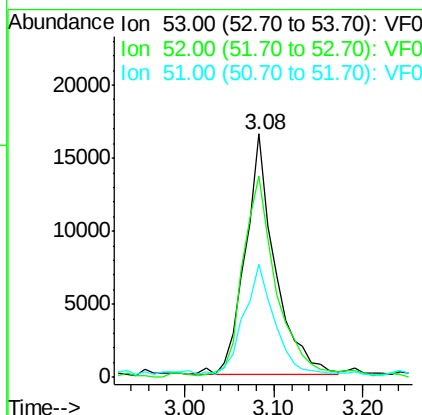
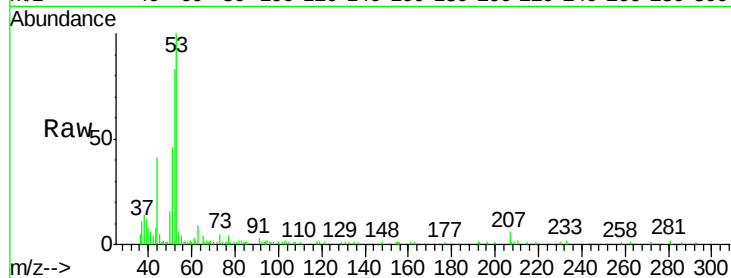
ClientSampleId :

VF0507SBS01

Tot Ion:	53	Resp:	37729
Ion	Ratio	Lower	Upper
53	100		
52	91.5	77.2	115.8
51	46.3	40.6	61.0

Manual Integrations
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MMDadoda
5/8/2019 11:10:45 AM



#16

Acetone

Concen: 100.679 ug/l

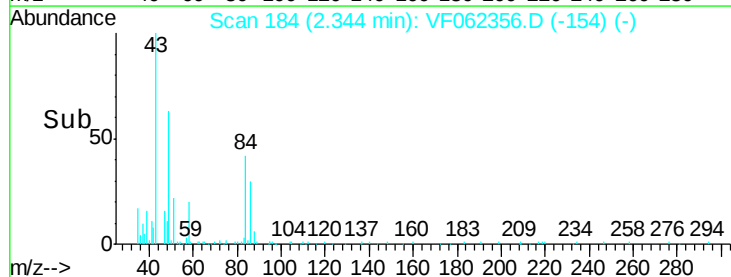
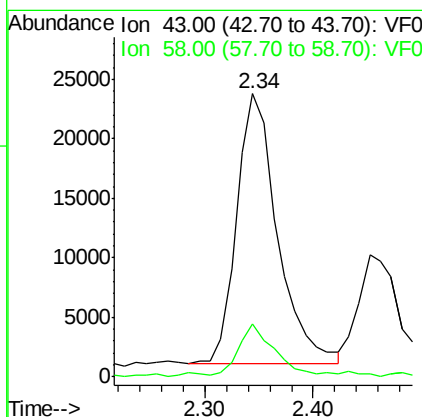
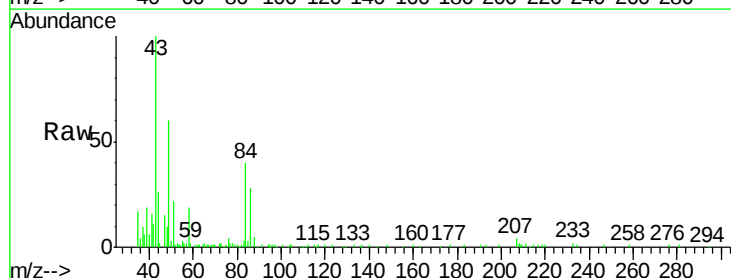
RT: 2.34 min Scan# 184

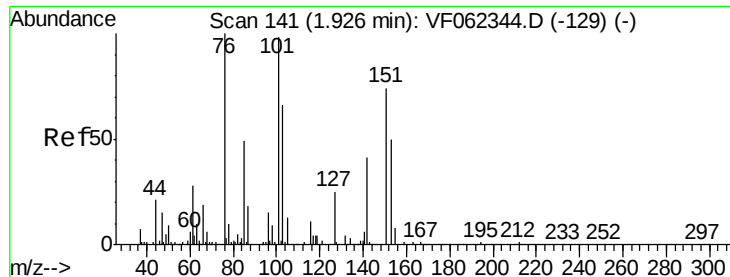
Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion:	43	Resp:	59658
Ion	Ratio	Lower	Upper
43	100		
58	18.4	13.1	19.7





#17

Carbon Disulfide

Concen: 22.376 ug/l m

RT: 1.93 min Scan# 142

Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion: 76 Resp: 115942

Ion Ratio Lower Upper

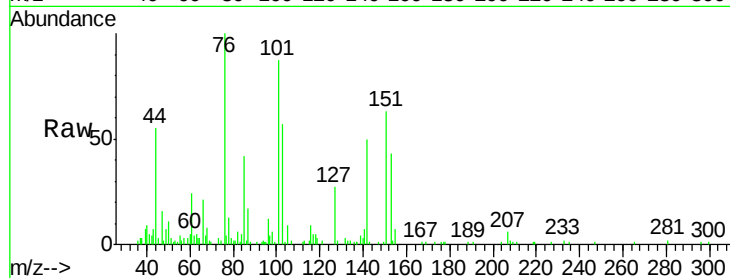
76 100

78 12.8 9.0 13.4

Manual Integrations
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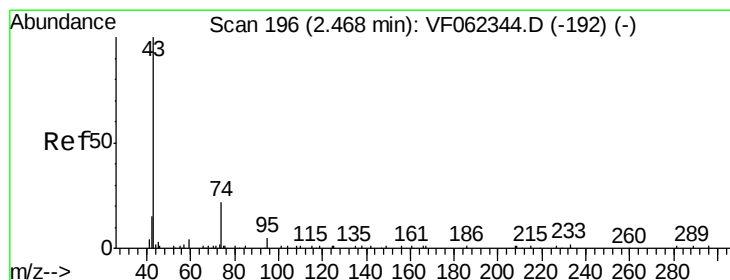
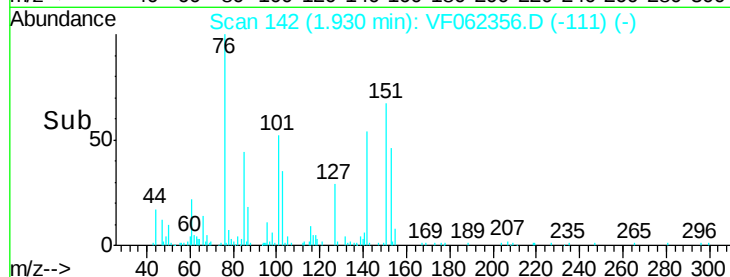
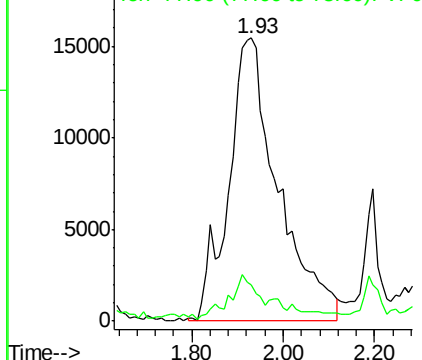
MMDadoda

5/8/2019 11:10:45 AM



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#18

Methyl Acetate

Concen: 18.469 ug/l

RT: 2.45 min Scan# 195

Delta R.T. -0.02 min

Lab File: VF062356.D

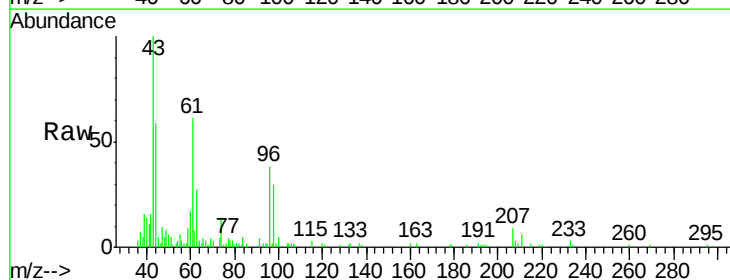
Acq: 7 May 2019 14:37

Tgt Ion: 43 Resp: 22092

Ion Ratio Lower Upper

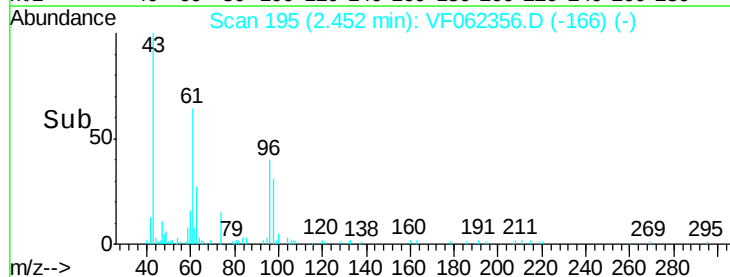
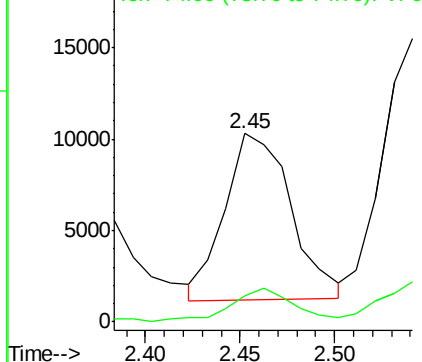
43 100

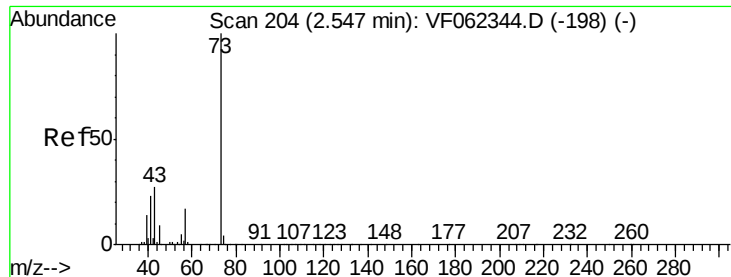
74 19.7 15.0 22.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#19

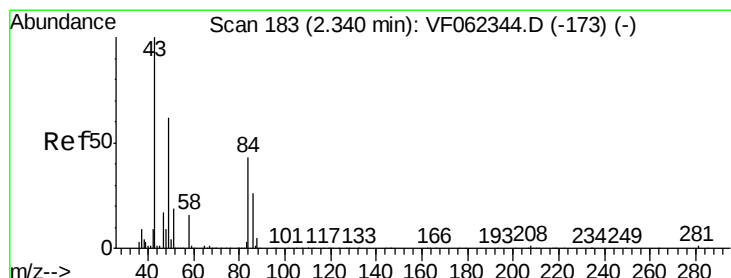
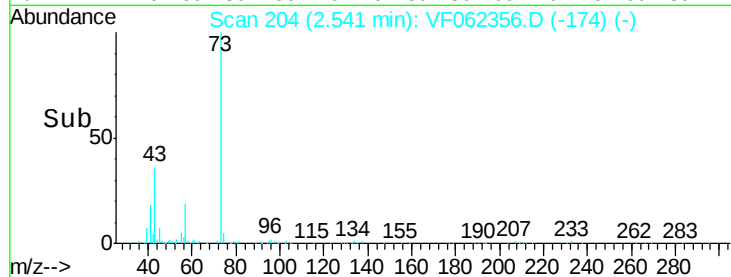
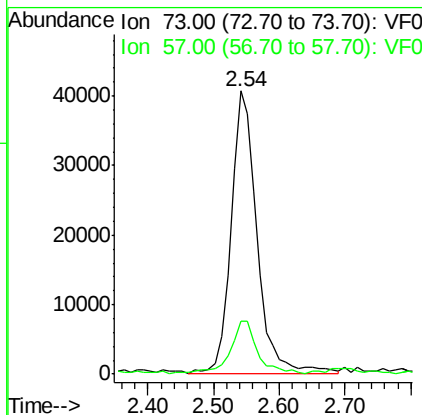
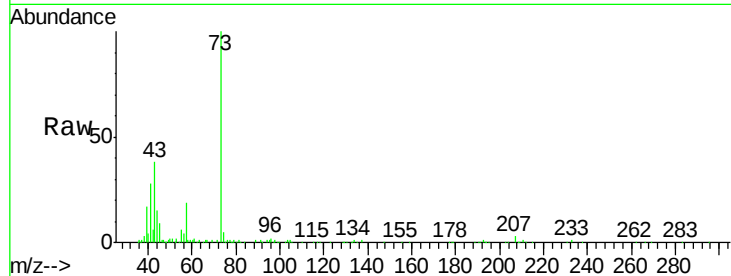
Methyl tert-butyl Ether
 Concen: 23.179 ug/l
 RT: 2.54 min Scan# 204
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBS01

Tot Ion	73	Resp	113703
Ion	Ratio	Lower	Upper
73	100		
57	18.2	13.7	20.5

Manual Integrations
 APPROVED

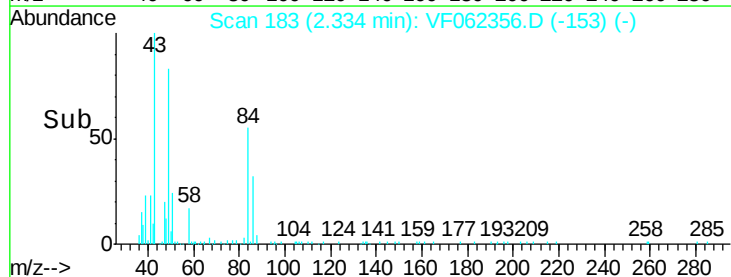
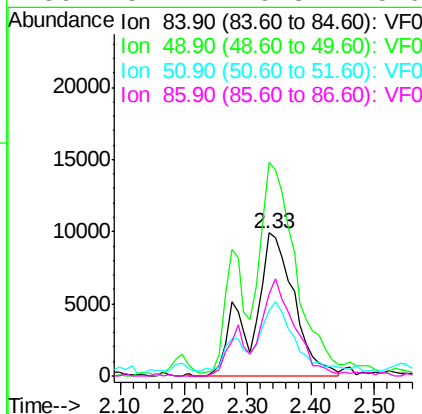
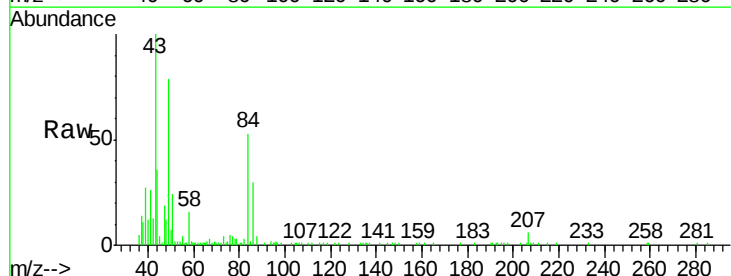
MMDadoda
 5/8/2019 11:10:45 AM

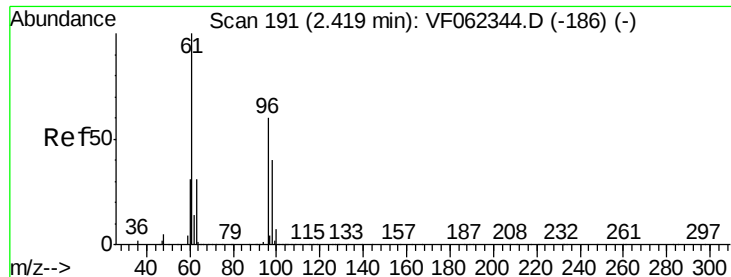


#20

Methylene Chloride
 Concen: 21.386 ug/l m
 RT: 2.33 min Scan# 183
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Tgt Ion	84	Resp	45849
Ion	Ratio	Lower	Upper
84	100		
49	149.3	117.5	176.3
51	45.2	37.0	55.4
86	57.1	49.3	73.9





#21

trans-1,2-Dichloroethene

Concen: 23.627 ug/l m

RT: 2.41 min Scan# 191

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

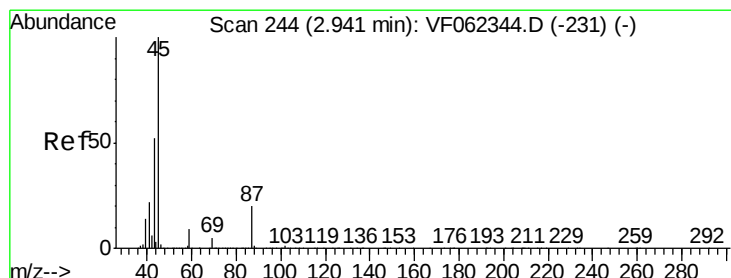
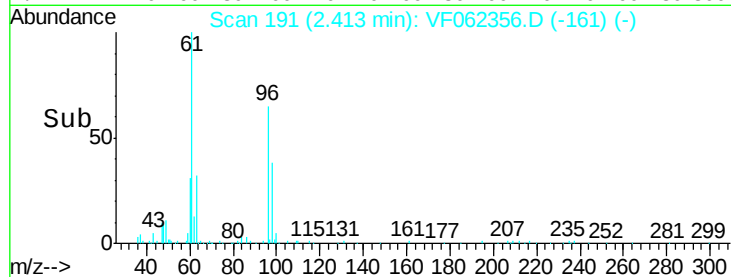
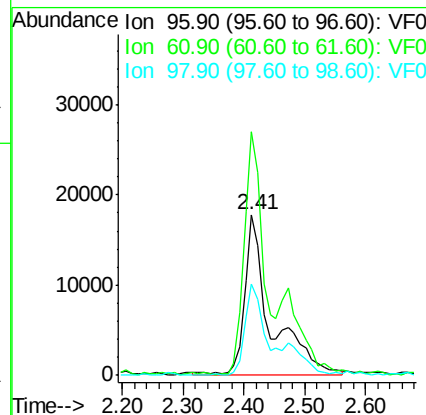
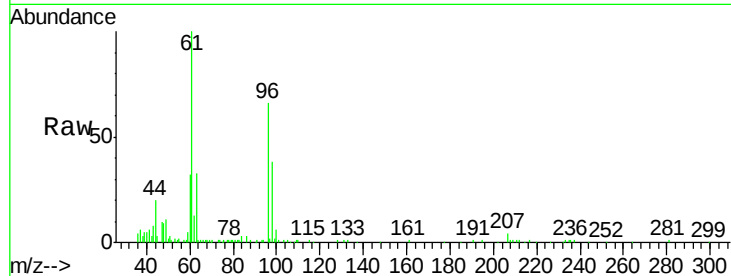
ClientSampleId :

VF0507SBS01

Tot Ion:	96	Resp:	53494
Ion	Ratio	Lower	Upper
96	100		
61	151.5	133.2	199.8
98	56.9	53.1	79.7

Manual Integrations
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MMDadoda
5/8/2019 11:10:45 AM



#22

Diisopropyl ether

Concen: 23.255 ug/l

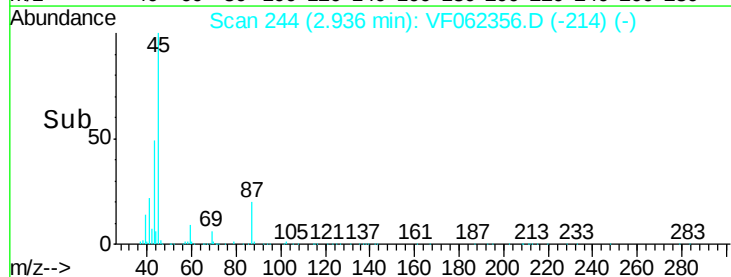
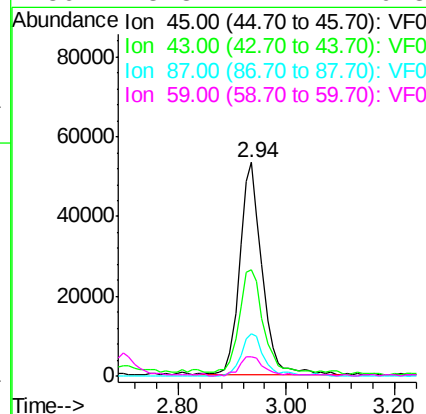
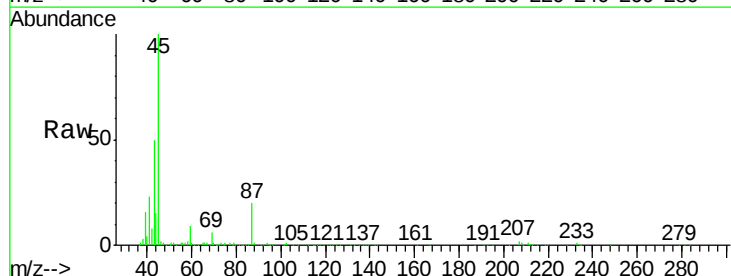
RT: 2.94 min Scan# 244

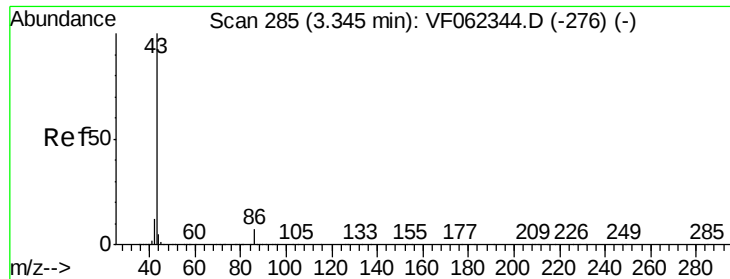
Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion:	45	Resp:	152573
Ion	Ratio	Lower	Upper
45	100		
43	49.0	41.4	62.0
87	20.1	15.8	23.6
59	8.8	7.2	10.8





#23

Vinyl Acetate

Concen: 115.322 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion: 43 Resp: 337214

Ion Ratio Lower Upper

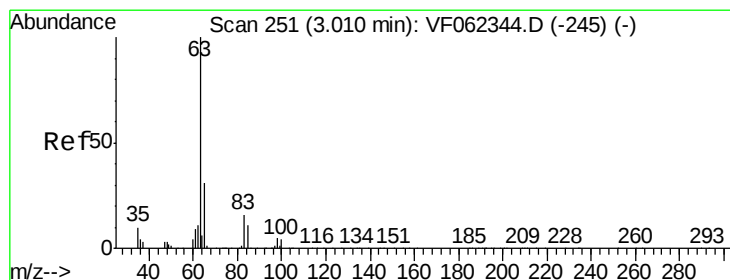
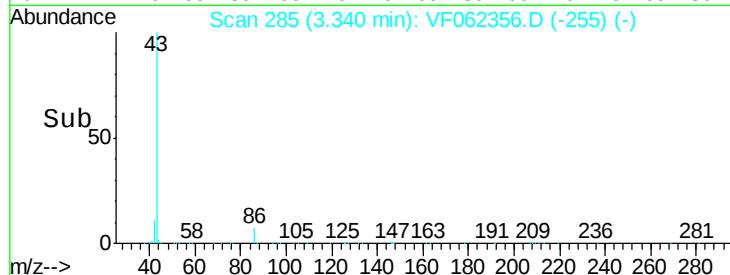
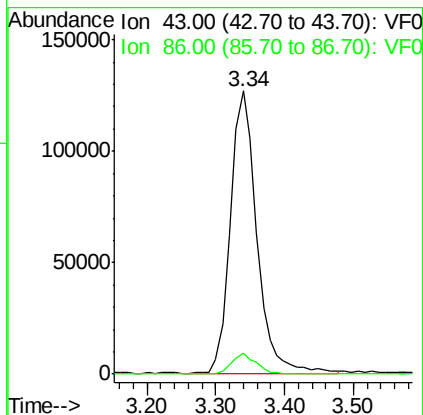
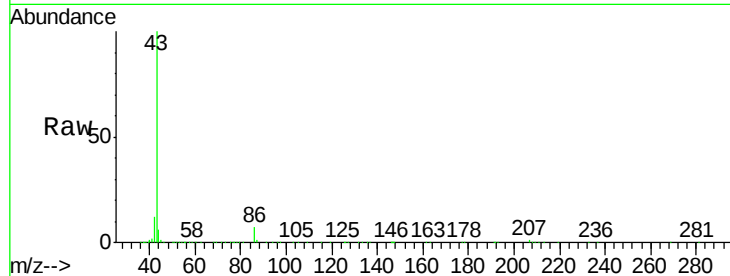
43 100

86 7.2 5.7 8.5

Manual Integrations
APPROVED

MMDadoda

5/8/2019 11:10:45 AM



#24

1,1-Dichloroethane

Concen: 25.290 ug/l

RT: 3.00 min Scan# 251

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

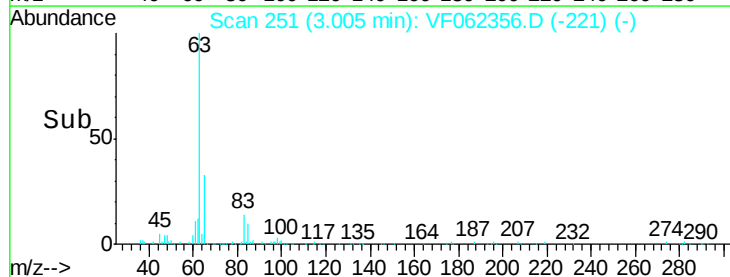
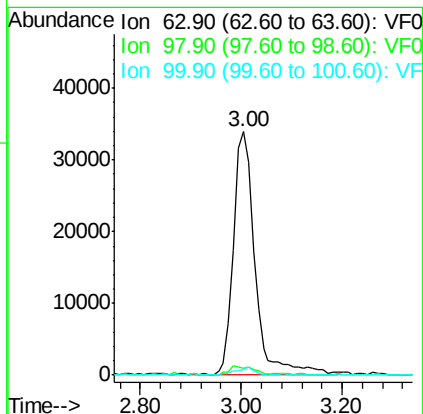
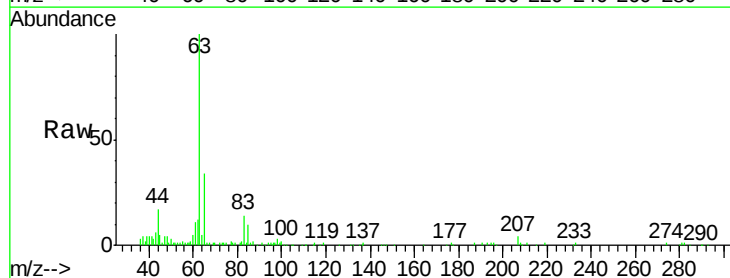
Tgt Ion: 63 Resp: 100282

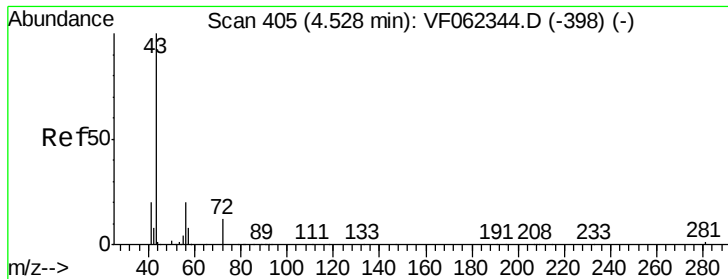
Ion Ratio Lower Upper

63 100

98 2.6 2.6 8.0#

100 2.2 1.8 5.4





#25

2-Butanone

Concen: 104.723 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion: 43 Resp: 77960

Ion Ratio Lower Upper

43 100

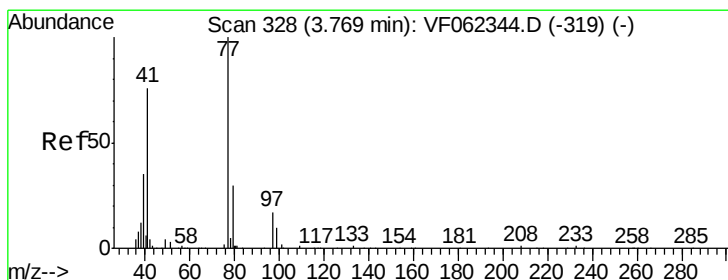
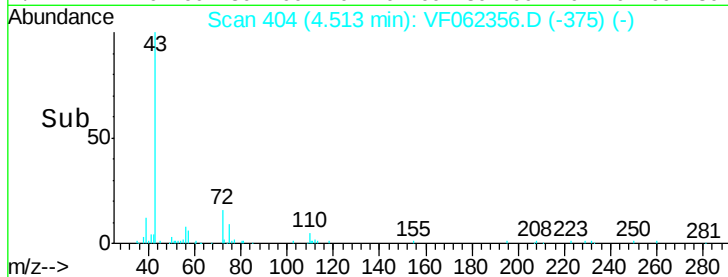
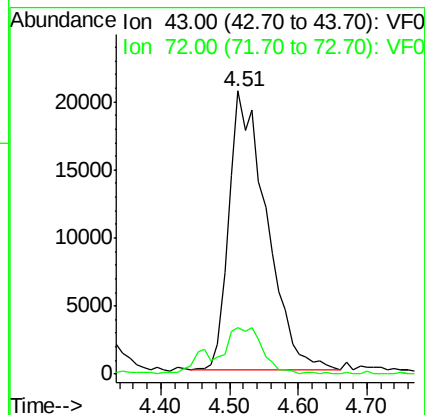
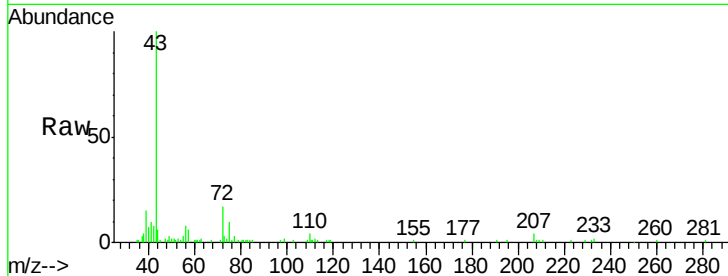
72 16.9 14.2 21.4

Manual Integrations

APPROVED

MMDadoda

5/8/2019 11:10:45 AM



#26

2,2-Dichloropropane

Concen: 23.248 ug/l

RT: 3.76 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF062356.D

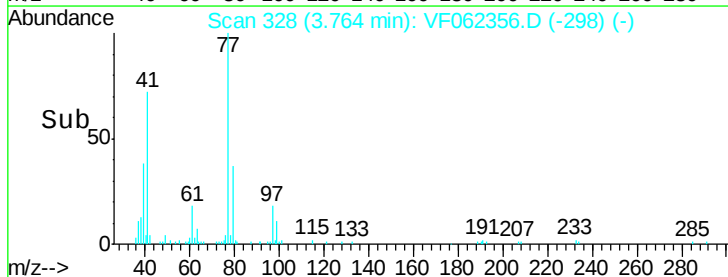
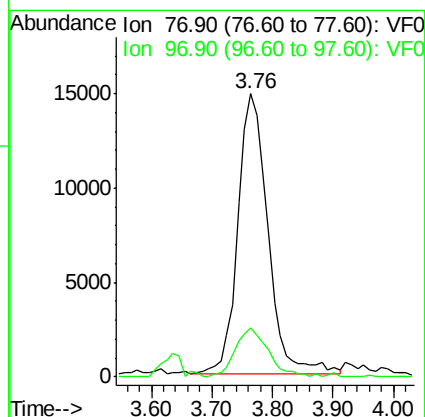
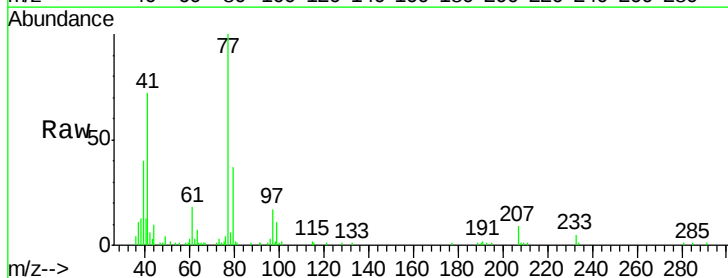
Acq: 7 May 2019 14:37

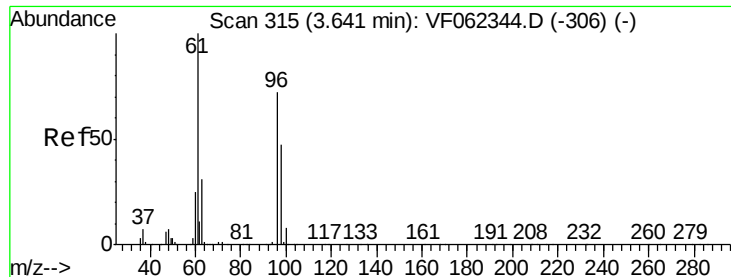
Tgt Ion: 77 Resp: 51479

Ion Ratio Lower Upper

77 100

97 19.0 9.5 28.5





#27

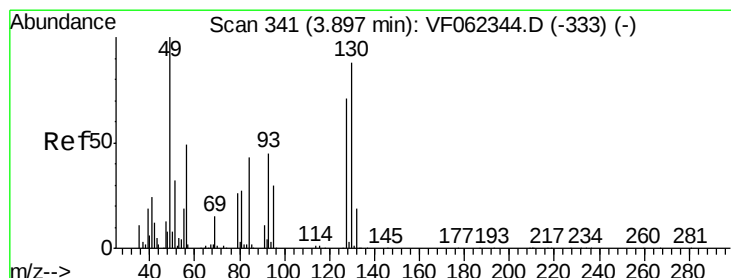
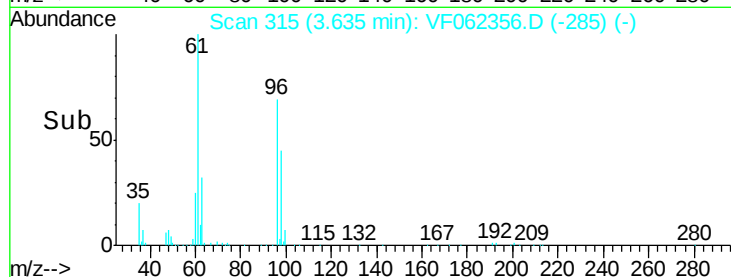
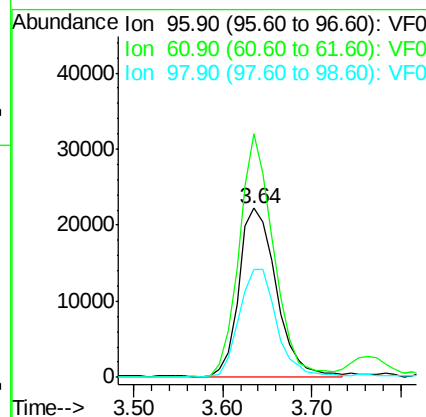
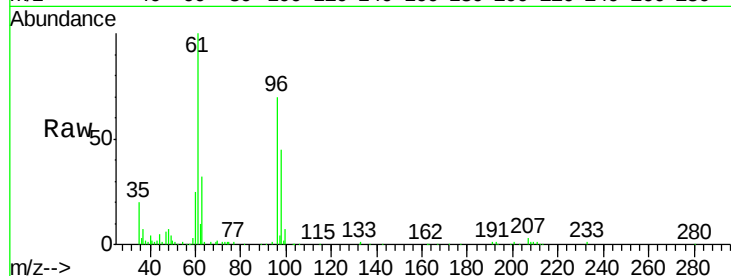
cis-1,2-Dichloroethene
Concen: 22.686 ug/l
RT: 3.64 min Scan# 315
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.7	0.0	263.0
98	65.9	0.0	130.8

Manual Integrations
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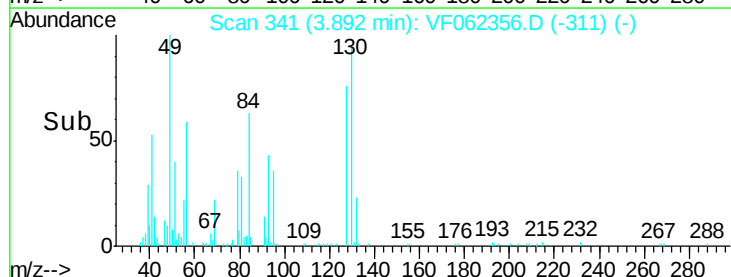
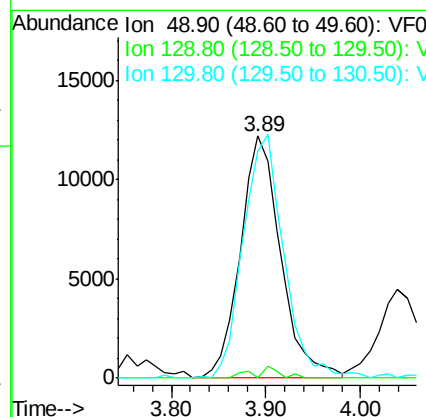
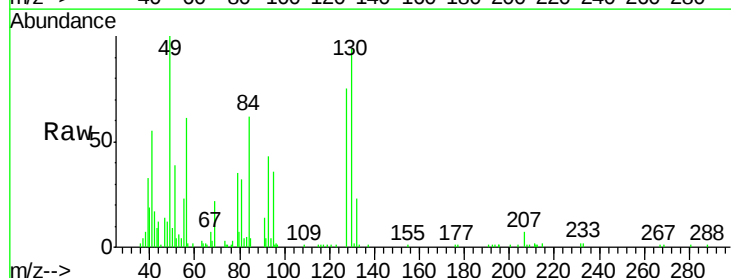
MMDadoda
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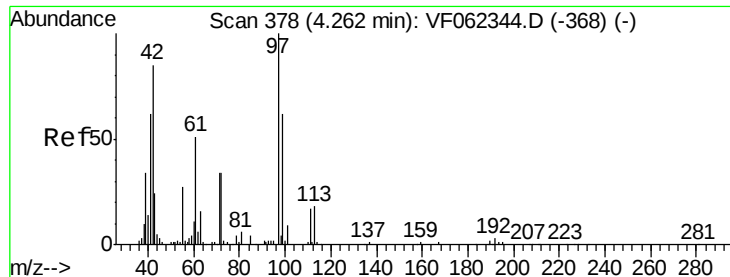


#28

Bromochloromethane
Concen: 20.156 ug/l
RT: 3.89 min Scan# 341
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	2.2#
130	100.8	79.4	119.0





#29

Tetrahydrofuran

Concen: 102.305 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

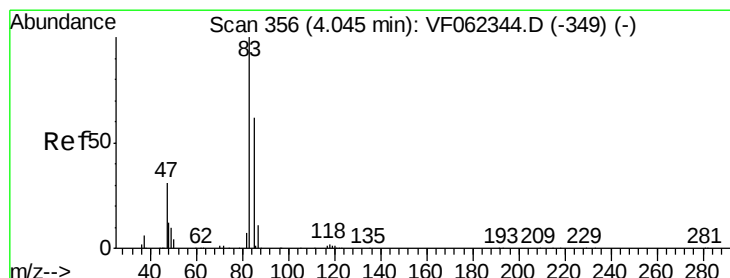
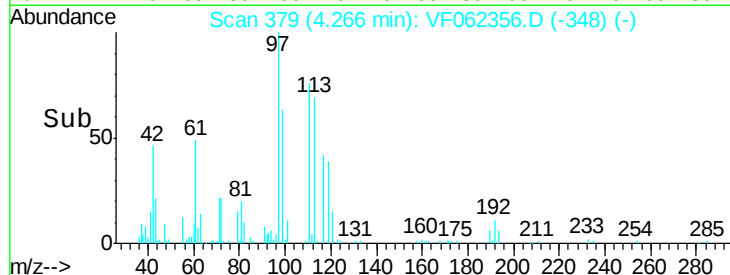
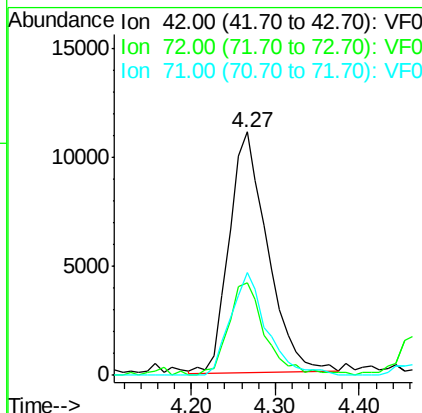
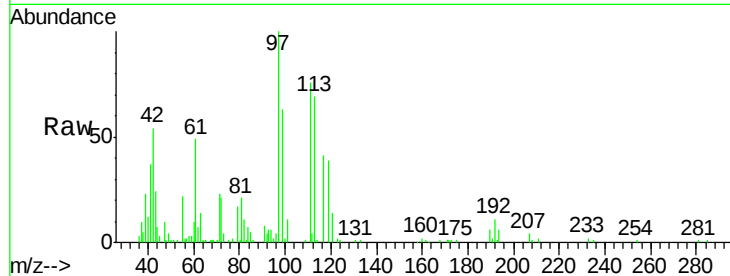
ClientSampleId :

VF0507SBS01

Tot Ion:	42	Resp:	35003
Ion	Ratio	Lower	Upper
42	100		
72	37.2	31.4	47.0
71	40.3	31.7	47.5

Manual Integrations
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#30

Chloroform

Concen: 23.624 ug/l

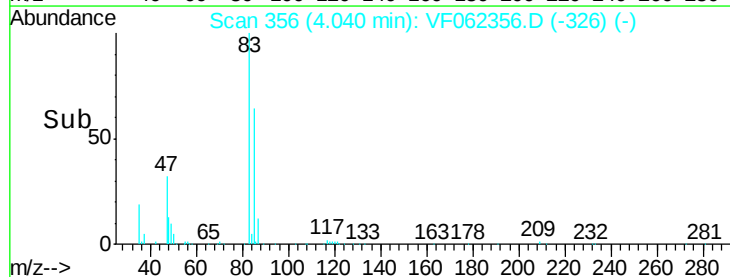
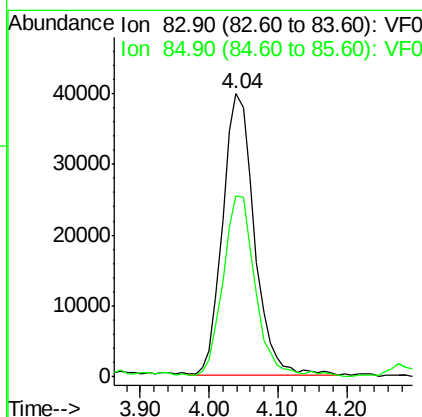
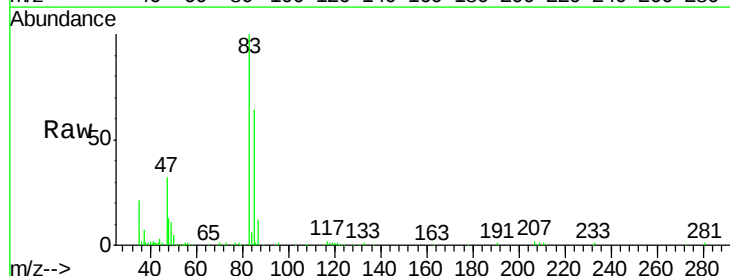
RT: 4.04 min Scan# 356

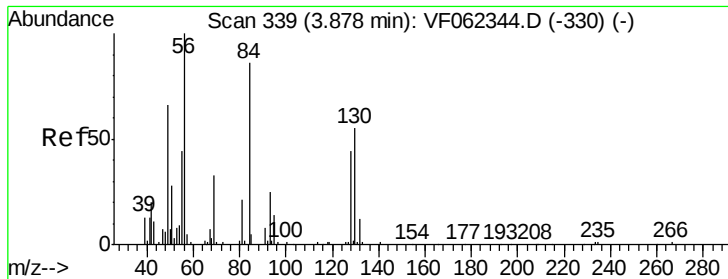
Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion:	83	Resp:	126555
Ion	Ratio	Lower	Upper
83	100		
85	63.8	49.6	74.4





#31

Cyclohexane

Concen: 22.887 ug/l m

RT: 3.86 min Scan# 338

Delta R.T. -0.02 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

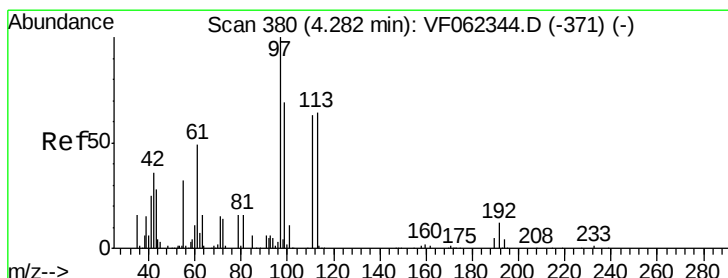
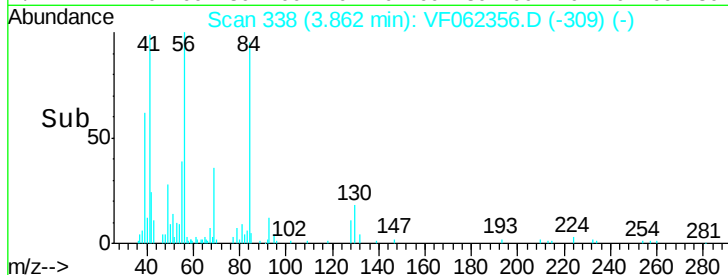
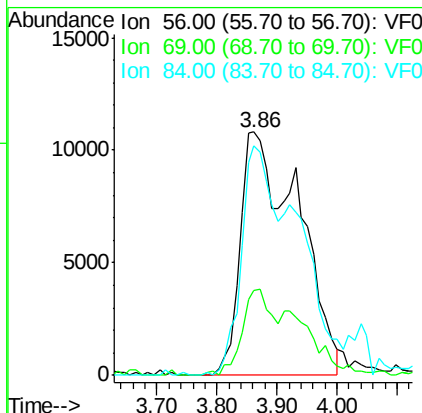
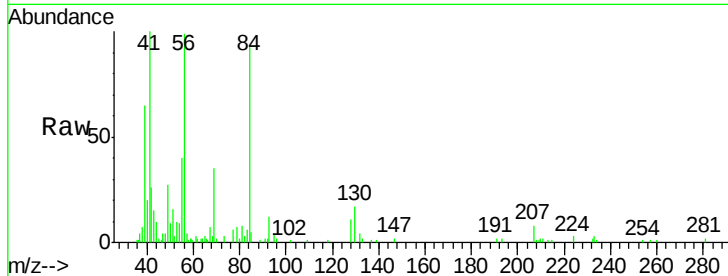
ClientSampleId :

VF0507SBS01

Tot Ion:	56	Resp:	72438
Ion	Ratio	Lower	Upper
56	100		
69	35.0	26.4	39.6
84	94.0	69.0	103.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 18.005 ug/l

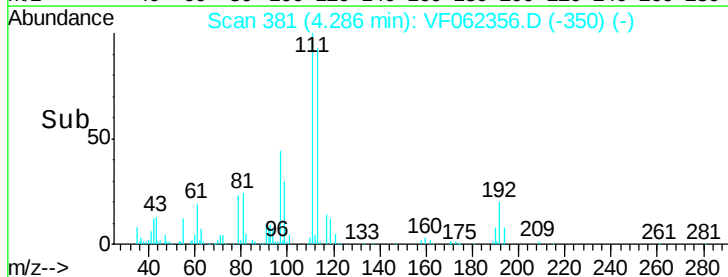
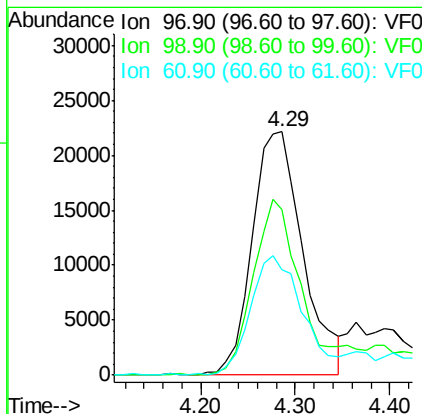
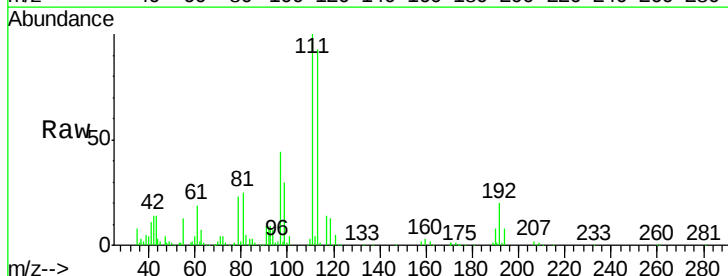
RT: 4.29 min Scan# 381

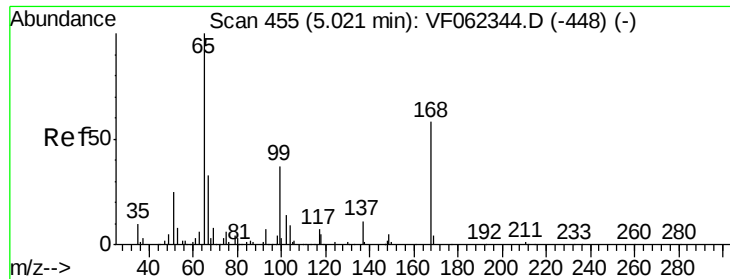
Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion:	97	Resp:	82665
Ion	Ratio	Lower	Upper
97	100		
99	72.4	52.6	78.8
61	50.6	39.4	59.0





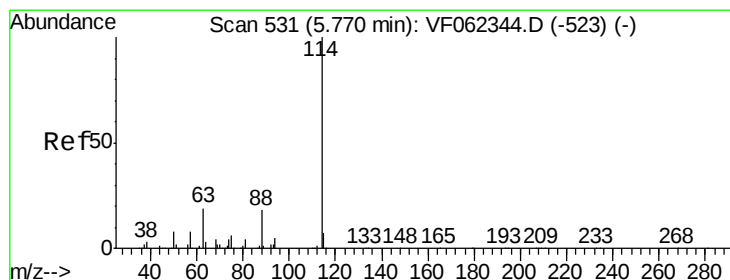
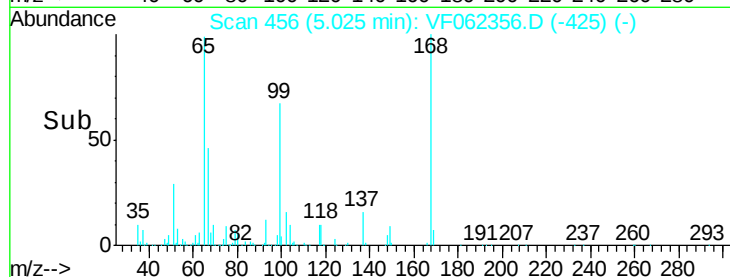
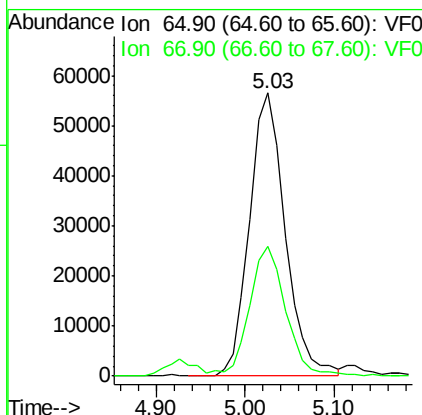
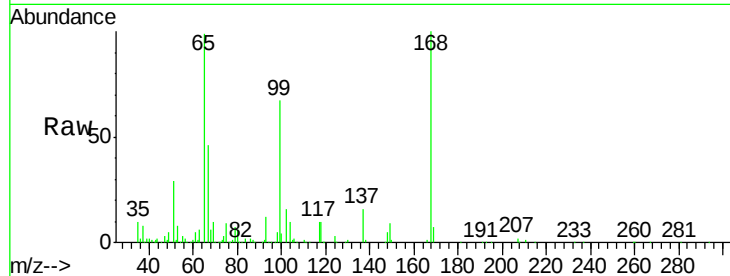
#33
 1,2-Dichloroethane-d4
 Concen: 52.964 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. 0.00 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	155141		
67	46.4	0.0	85.8	

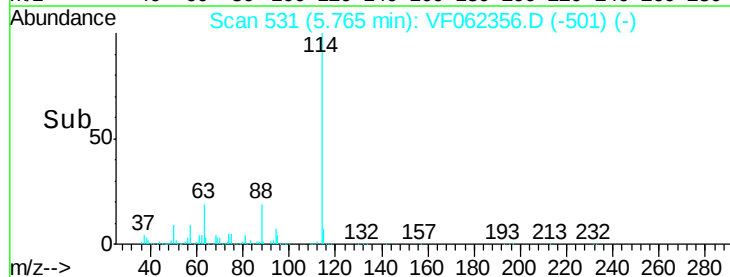
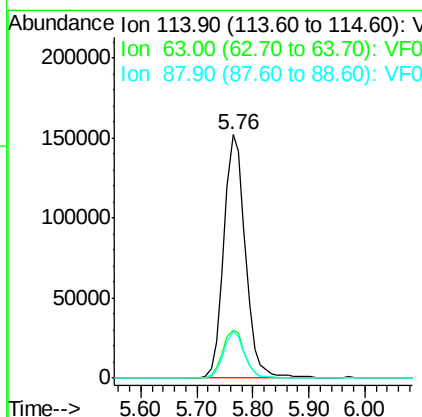
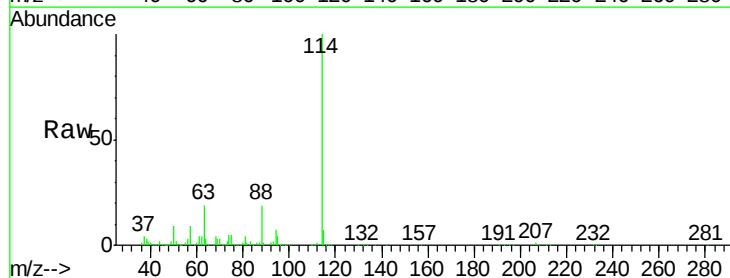
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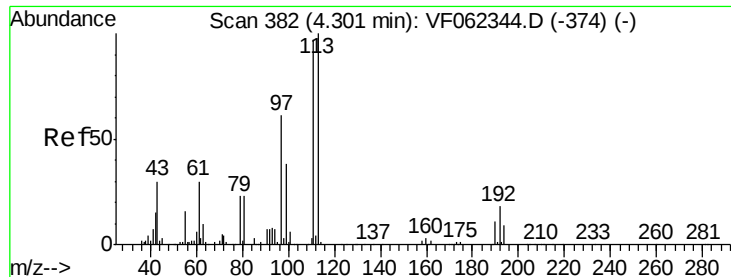
MMDadoda
 5/8/2019 11:10:45 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	409384		
63	19.4	0.0	37.4	
88	19.0	0.0	36.4	





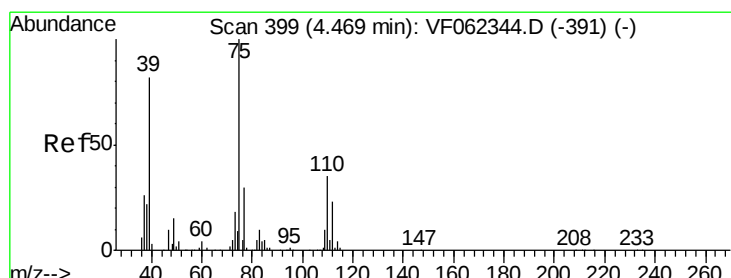
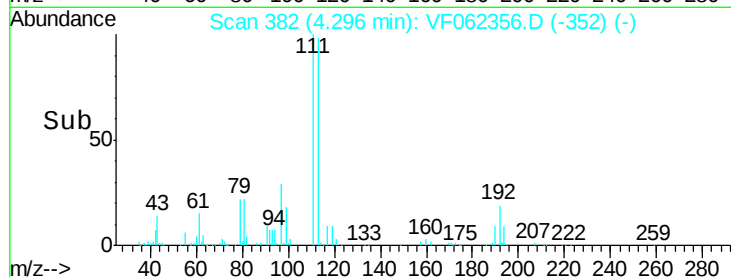
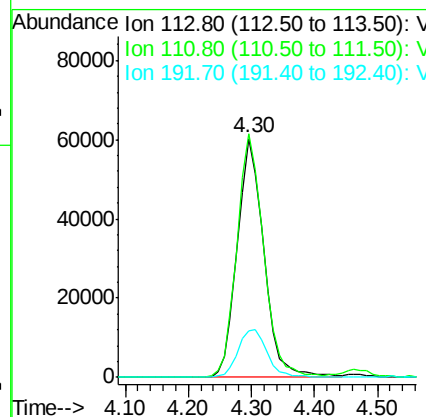
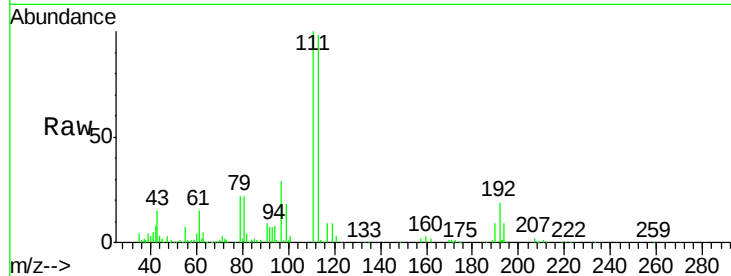
#35
 Dibromofluoromethane
 Concen: 54.035 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	176234		
111	102.1	79.4	119.0	
192	21.8	16.0	24.0	

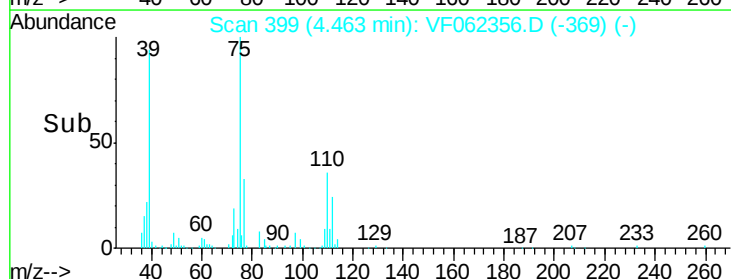
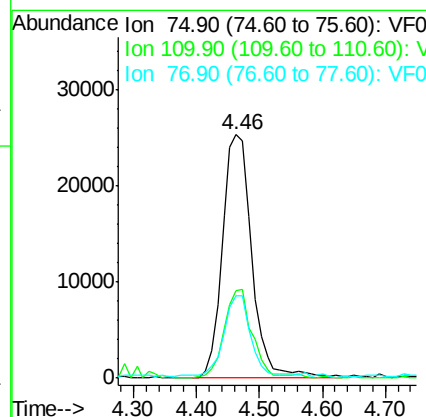
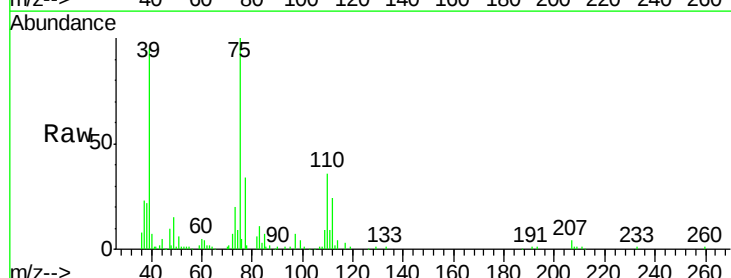
Manual Integrations
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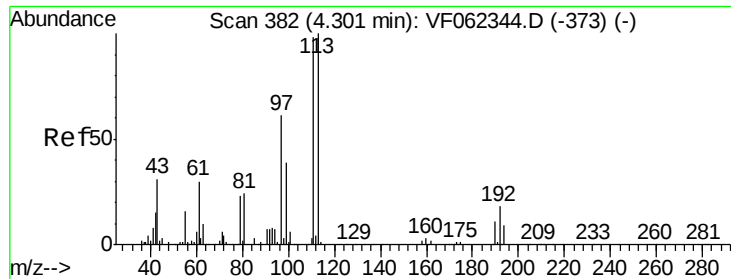
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#36
 1,1-Dichloropropene
 Concen: 23.530 ug/l
 RT: 4.46 min Scan# 399
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	82748		
110	33.9	17.2	51.5	
77	30.0	25.2	37.8	





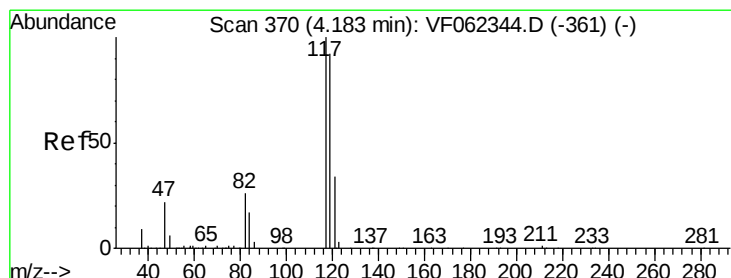
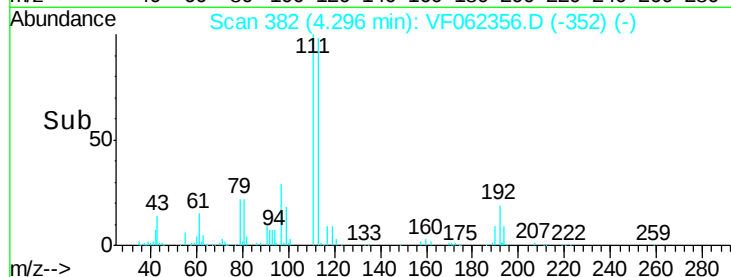
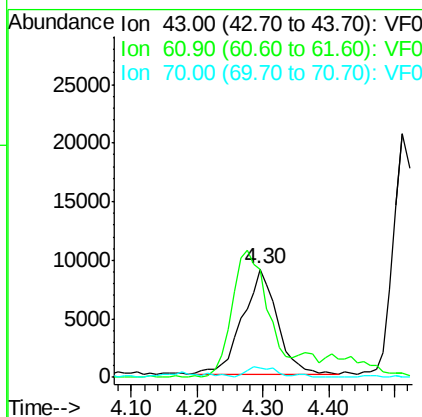
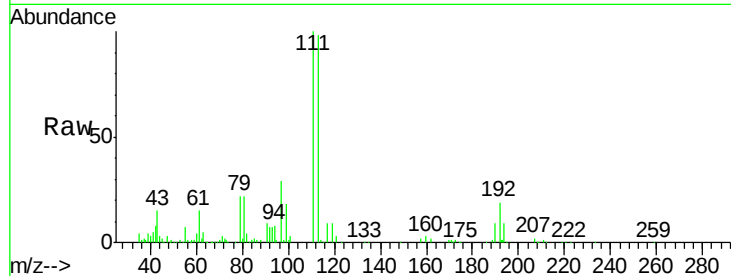
#37
Ethyl Acetate
Concen: 21.578 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	124.2	0.0	0.0	
70	8.2	8.2	12.2	

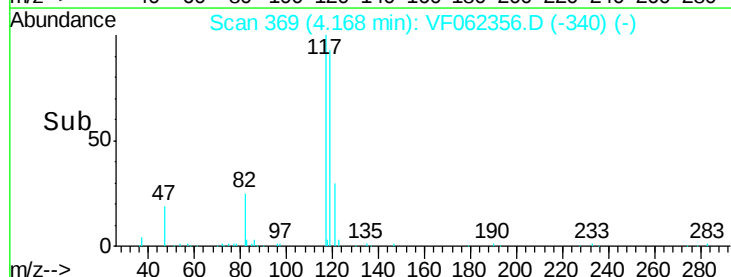
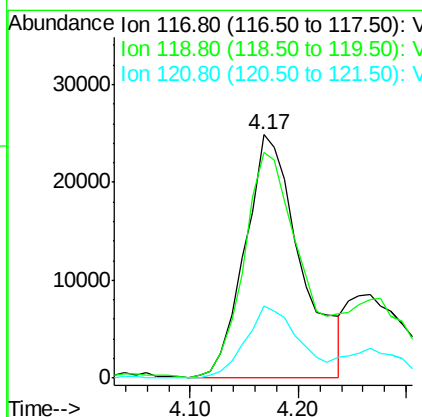
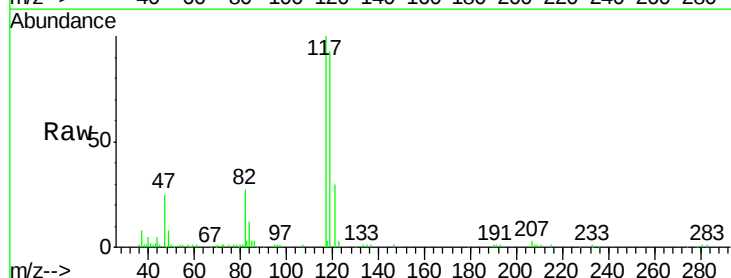
Manual Integrations
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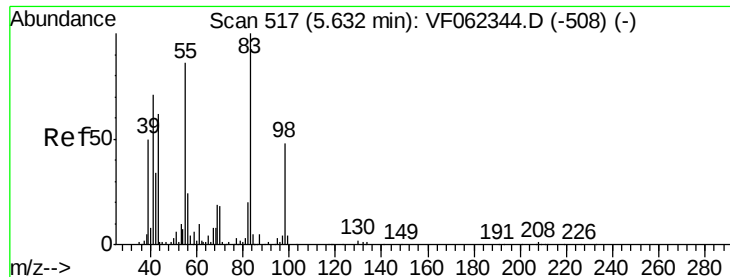
MMDadoda
5/8/2019 11:10:45 AM



#38
Carbon Tetrachloride
Concen: 22.708 ug/l
RT: 4.17 min Scan# 369
Delta R.T. -0.02 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	93.2	73.4	110.2	
121	29.8	27.4	41.0	





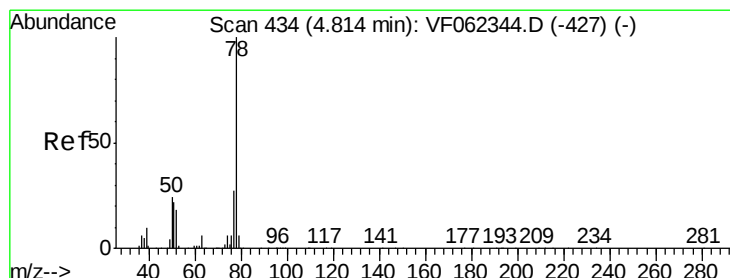
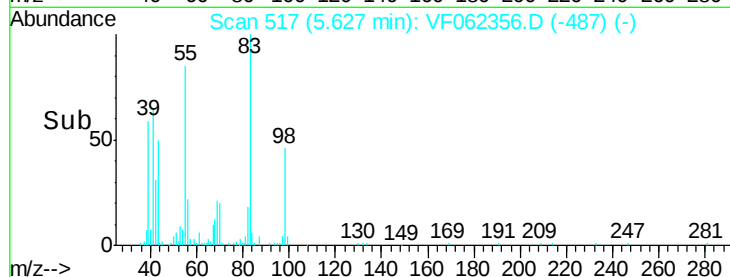
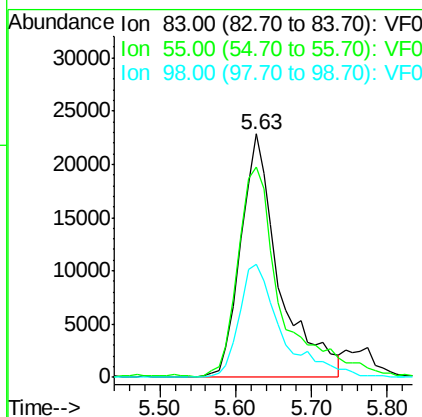
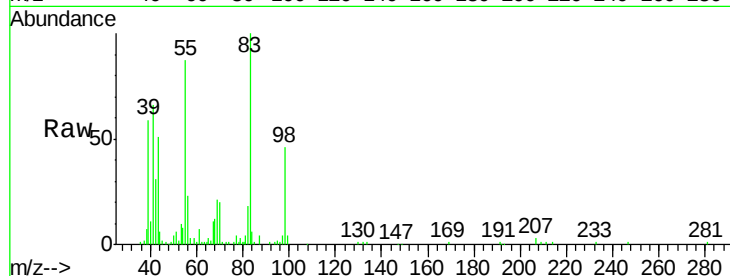
#39
Methvlcvclohexane
Concen: 22.950 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.7	69.0	103.6
98	46.4	38.6	58.0

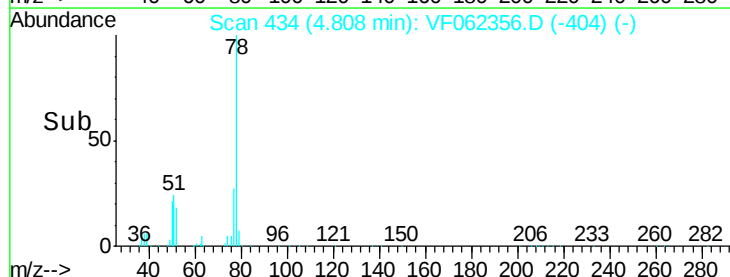
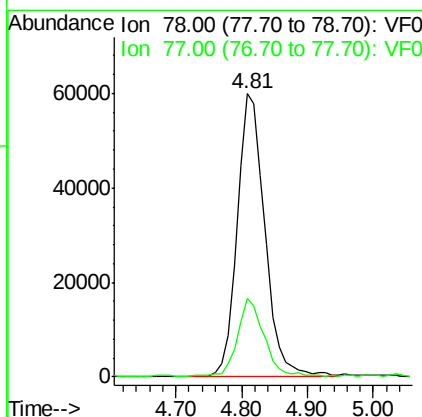
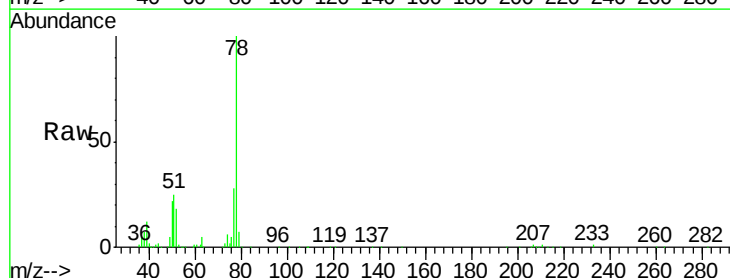
Manual Integrations
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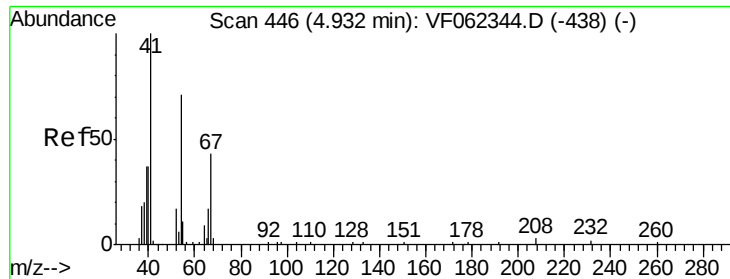
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#40
Benzene
Concen: 22.906 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.6	21.6	32.4





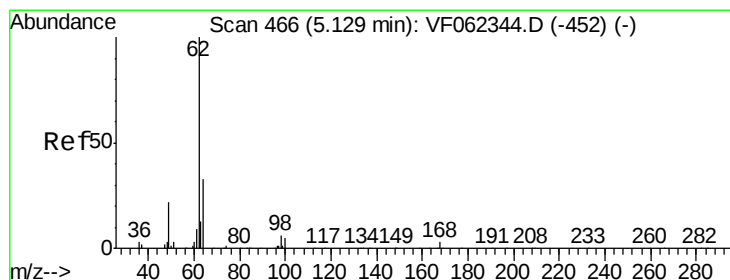
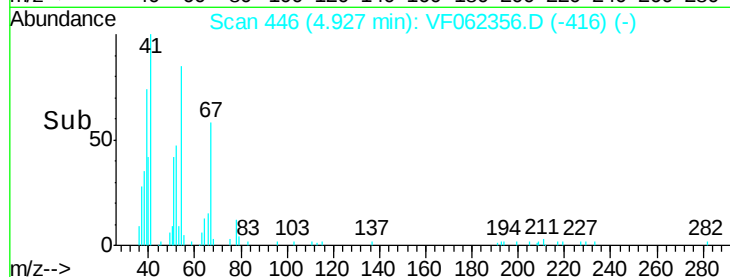
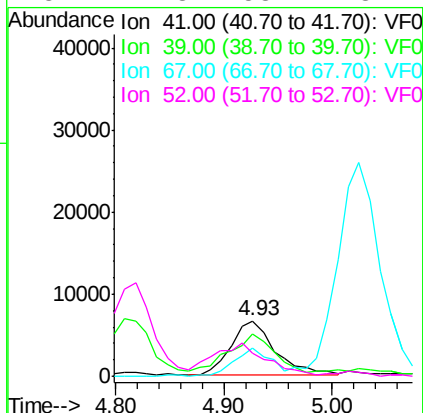
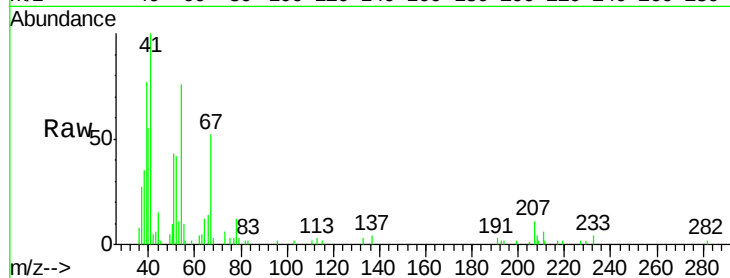
#41
Methacrylonitrile
Concen: 21.919 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
18483	41	100		
	39	79.3	54.3	81.5
	67	50.2	37.8	56.8
	52	71.8	58.2	87.4

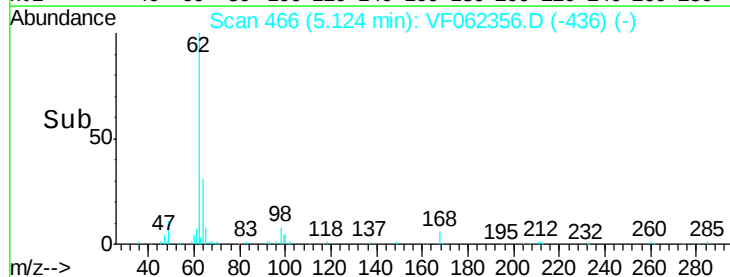
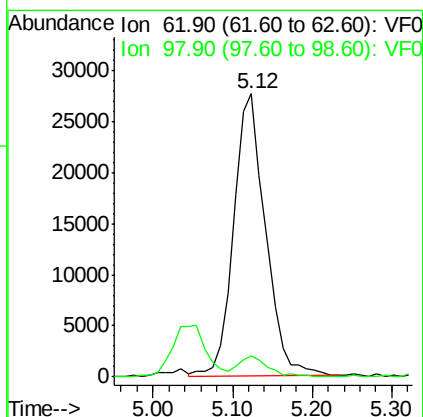
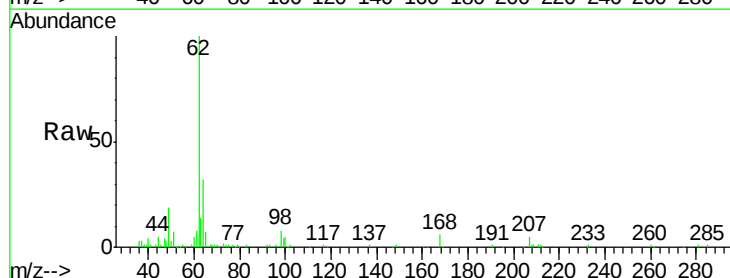
Manual Integrations
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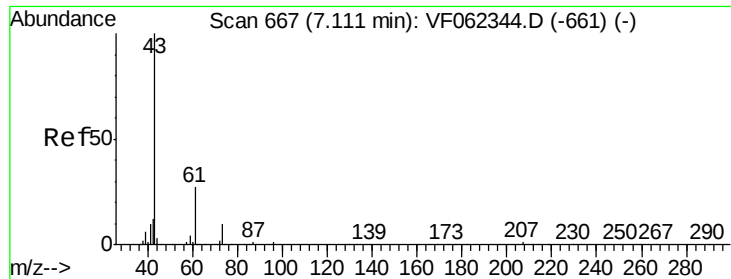
MMDadoda
5/8/2019 11:10:45 AM



#42
1,2-Dichloroethane
Concen: 23.681 ug/l
RT: 5.12 min Scan# 466
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ion	Ratio	Lower	Upper
76698	62	100		
	98	6.9	0.0	12.4





#43

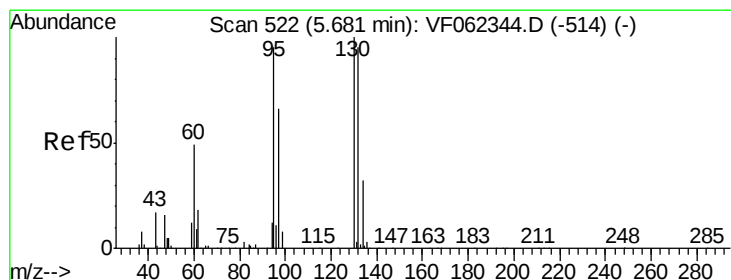
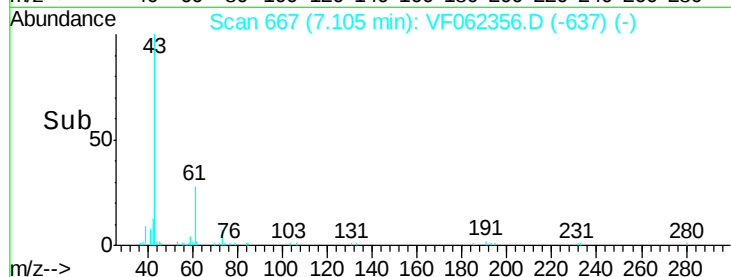
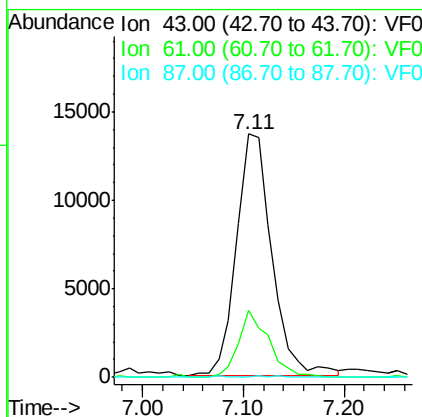
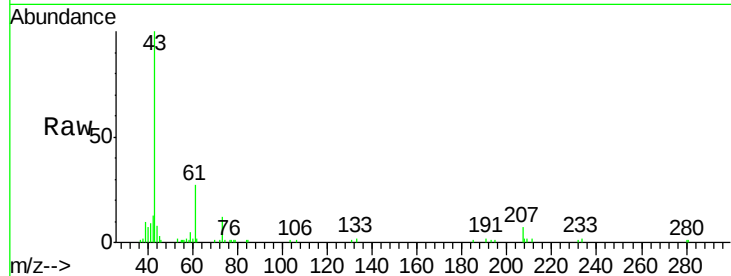
Isopropyl Acetate
 Concen: 20.877 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	24.0	22.8	34.2
87	0.0	0.6	1.0

Manual Integrations
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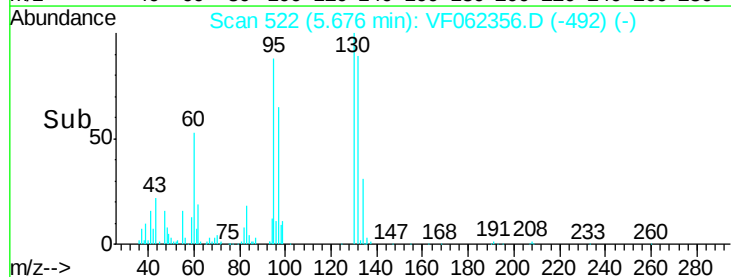
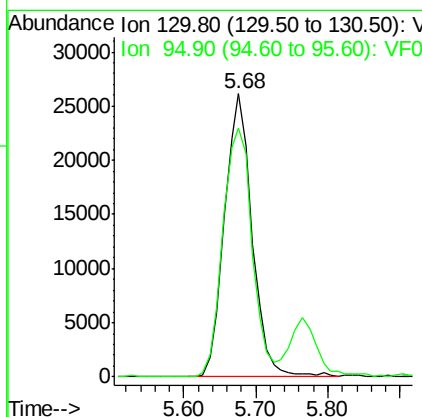
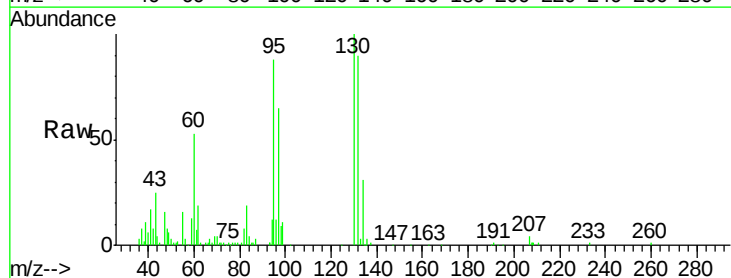
MMDadoda
 5/8/2019 11:10:45 AM

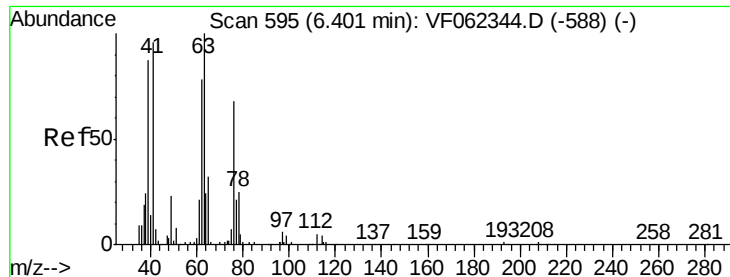


#44

Trichloroethene
 Concen: 24.408 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
130	100		
95	87.8	0.0	189.0





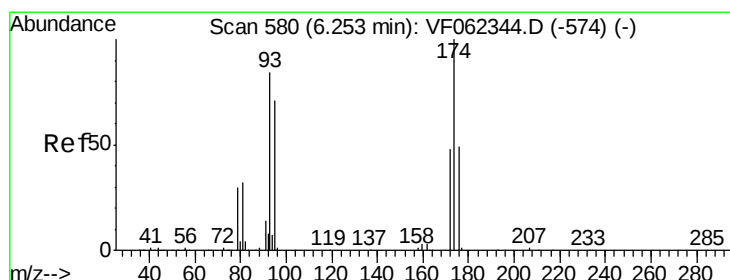
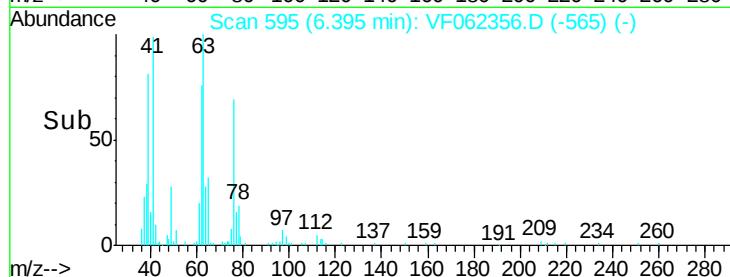
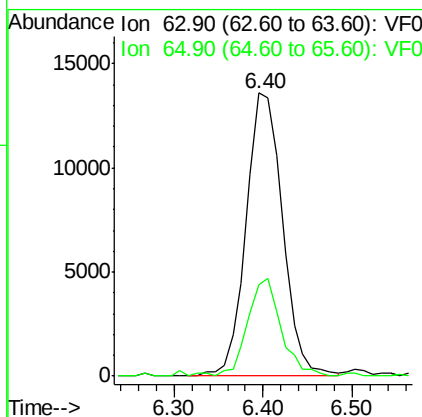
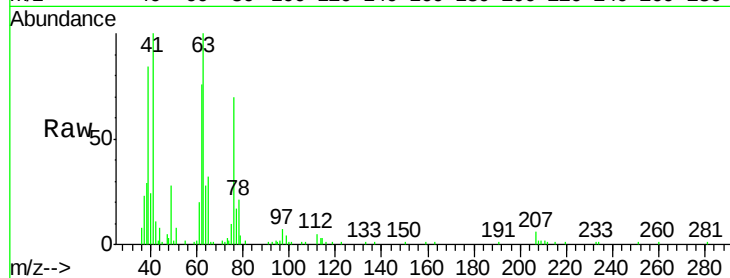
#45
1,2-Dichloropropane
Concen: 21.910 ug/l
RT: 6.40 min Scan# 595
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.6	38.4

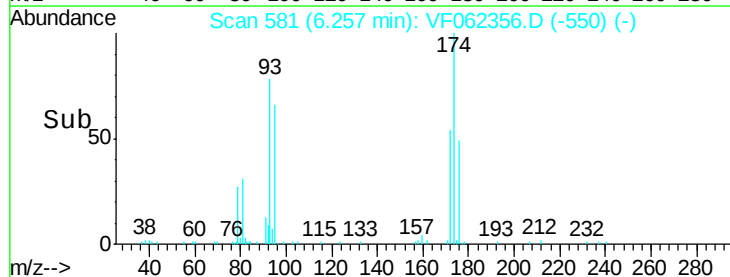
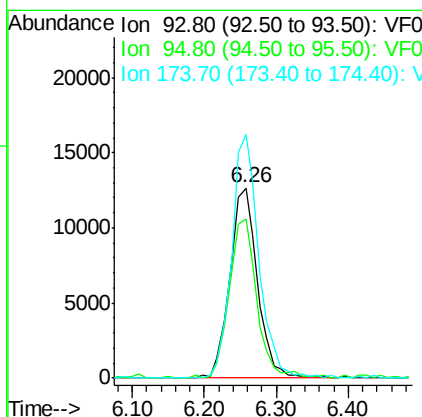
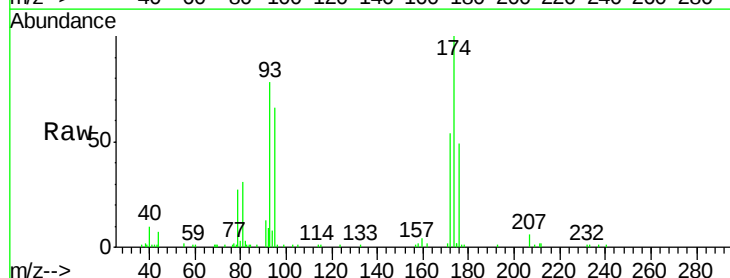
Manual Integrations
APPROVED

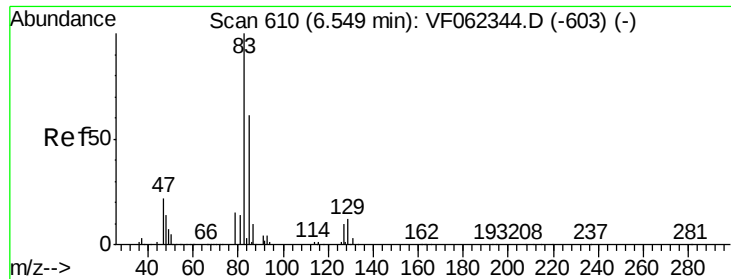
MMDadoda
5/8/2019 11:10:45 AM



#46
Dibromomethane
Concen: 23.312 ug/l
RT: 6.26 min Scan# 581
Delta R.T. 0.00 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.1	68.4	102.6
174	125.3	99.6	149.4





#47

Bromodichloromethane

Concen: 22.594 ug/l

RT: 6.54 min Scan# 610

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

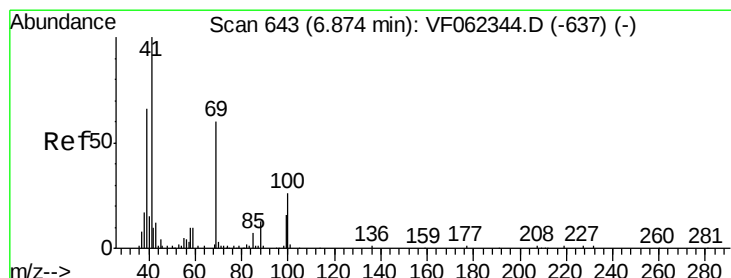
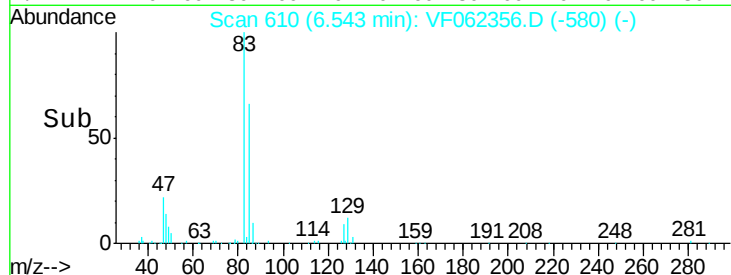
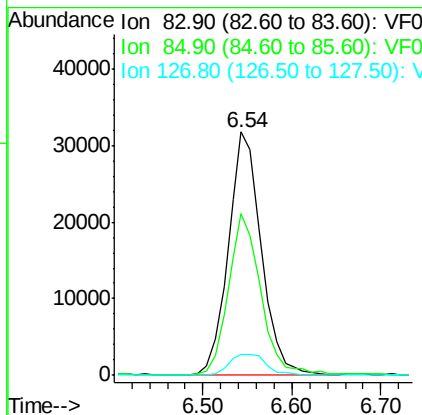
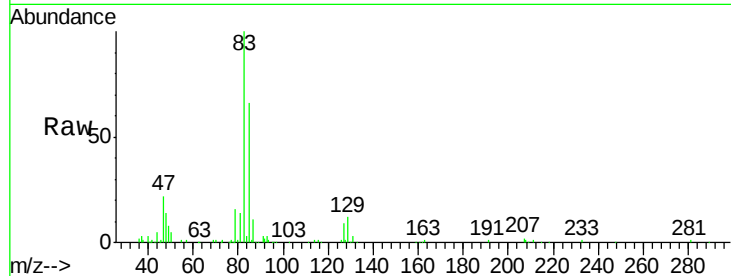
ClientSampleId :

VF0507SBS01

Tot Ion:	83	Resp:	82153
Ion Ratio	Lower	Upper	
83	100		
85	66.0	49.1	73.7
127	8.8	7.8	11.8

Manual Integrations
APPROVED

MMDadoda
5/8/2019 11:10:45 AM



#48

Methyl methacrylate

Concen: 20.883 ug/l

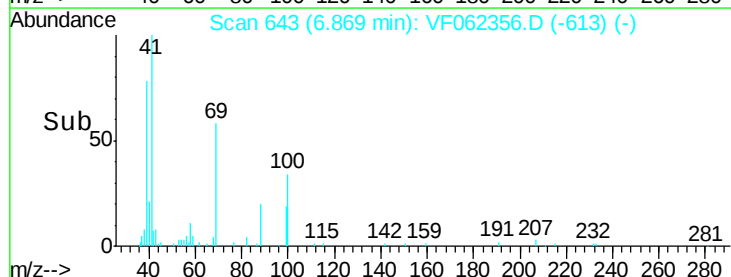
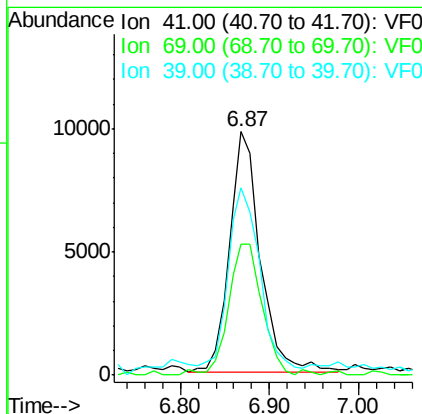
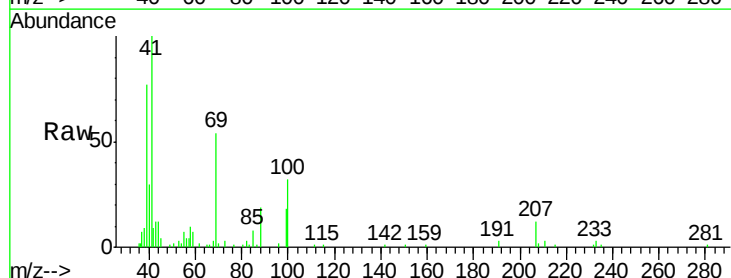
RT: 6.87 min Scan# 643

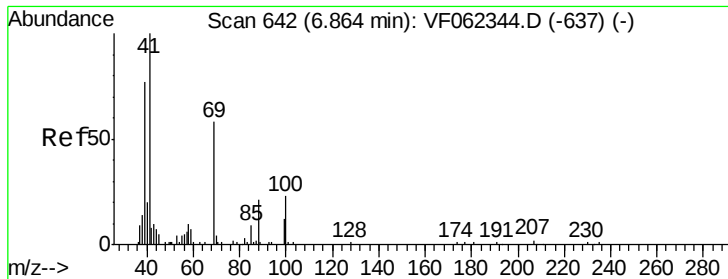
Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion:	41	Resp:	23607
Ion Ratio	Lower	Upper	
41	100		
69	59.5	48.6	72.8
39	75.9	56.1	84.1





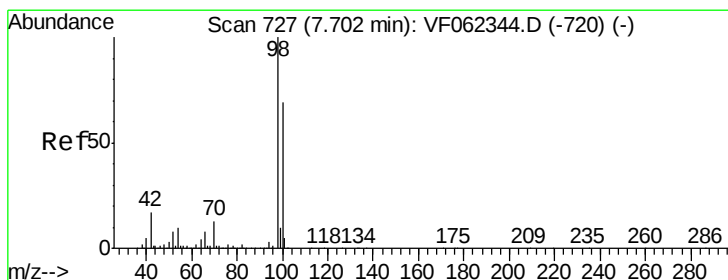
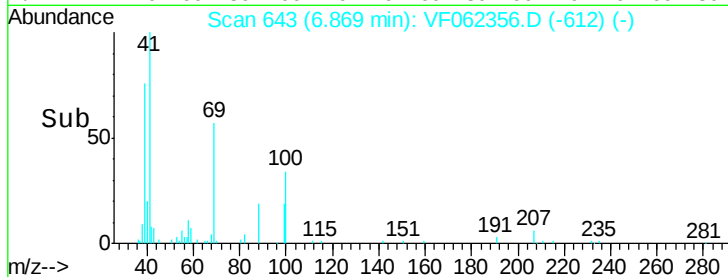
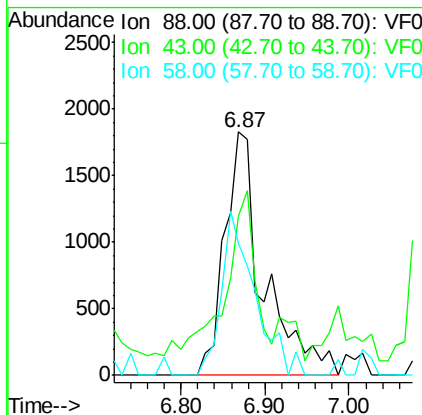
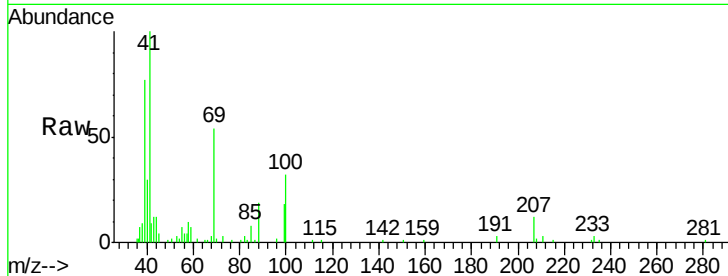
#49
1,4-Dioxane
Concen: 497.994 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.00 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	88	Resp	5866
Ion	Ratio	Lower	Upper
88	100		
43	51.0	55.6	83.4#
58	58.0	52.8	79.2

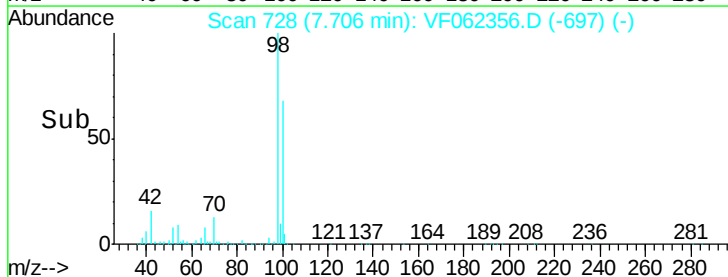
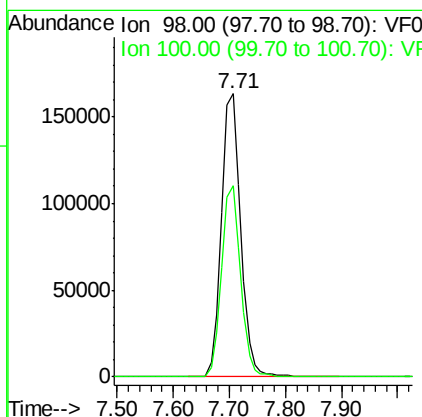
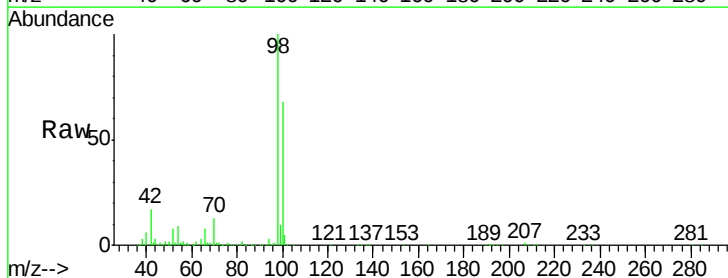
Manual Integrations
APPROVED

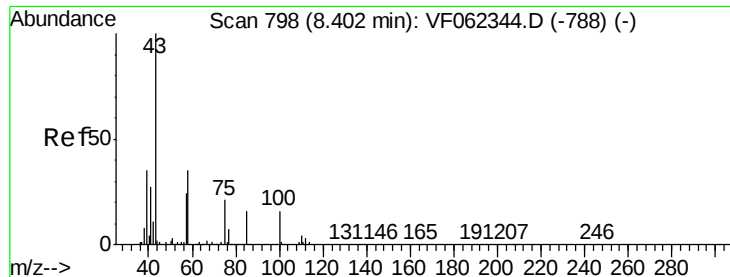
MMDadoda
5/8/2019 11:10:45 AM



#50
Toluene-d8
Concen: 49.850 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	98	Resp	393559
Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 110.911 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion: 43 Resp: 134433

Ion Ratio Lower Upper

43 100

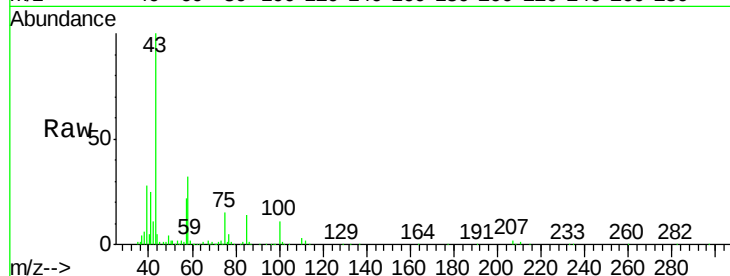
58 34.4 27.8 41.6

Manual Integrations

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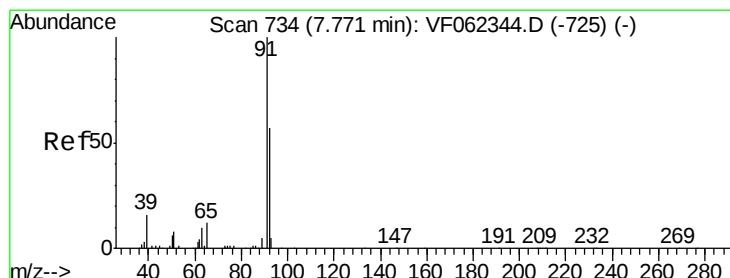
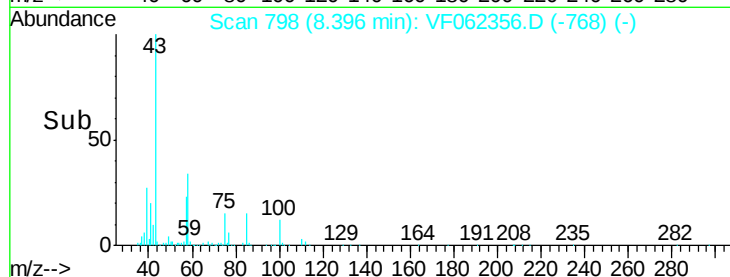
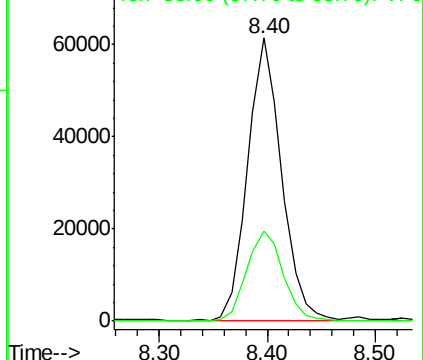
MMDadoda

5/8/2019 11:10:45 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.127 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF062356.D

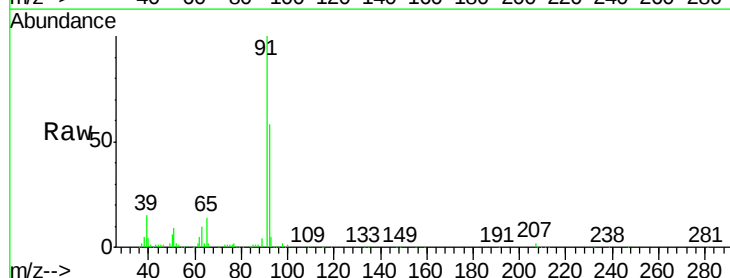
Acq: 7 May 2019 14:37

Tgt Ion: 92 Resp: 105712

Ion Ratio Lower Upper

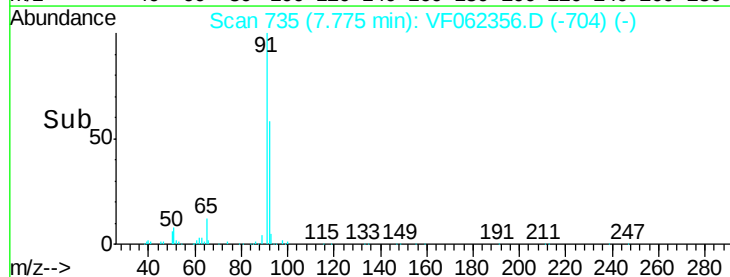
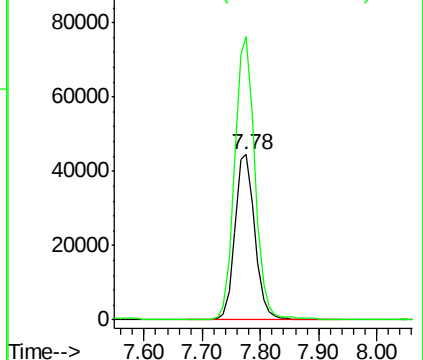
92 100

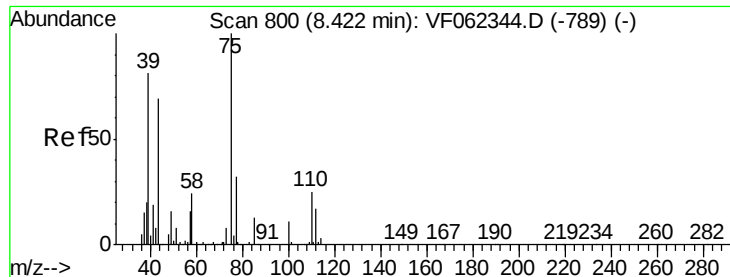
91 174.3 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





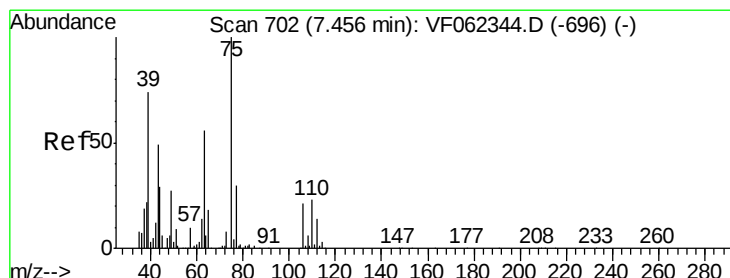
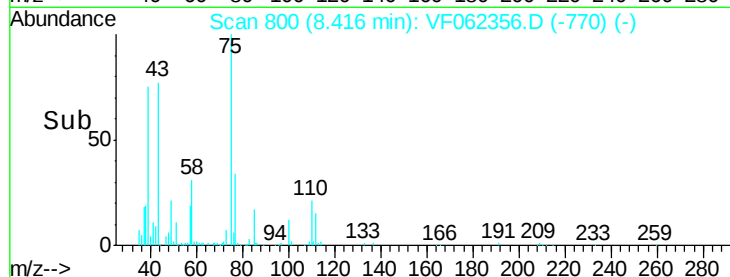
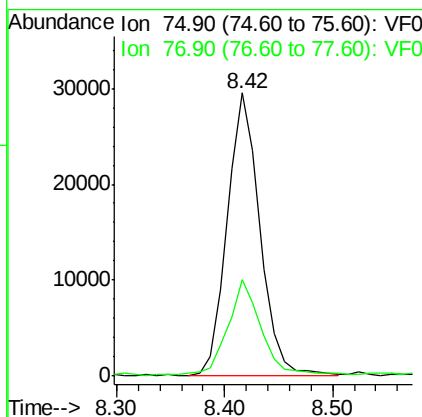
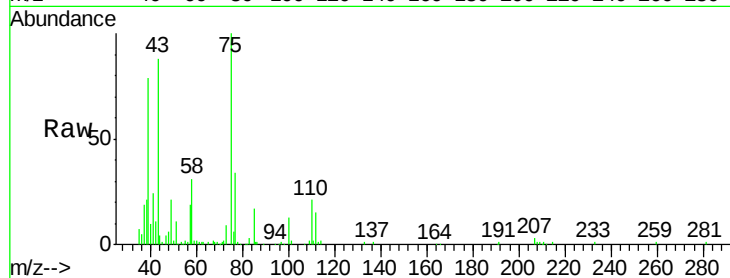
#53
t-1,3-Dichloropropene
Concen: 22.611 ug/l
RT: 8.42 min Scan# 800
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion: 75 Resp: 62183
Ion Ratio Lower Upper
75 100
77 33.0 25.4 38.0

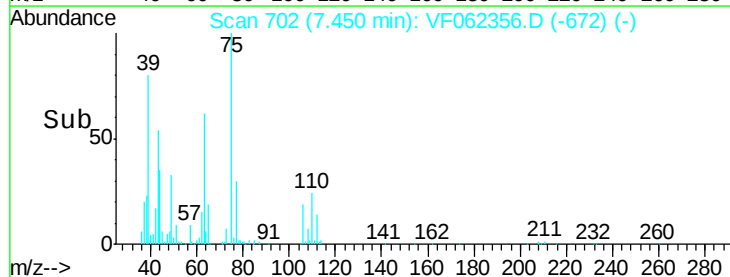
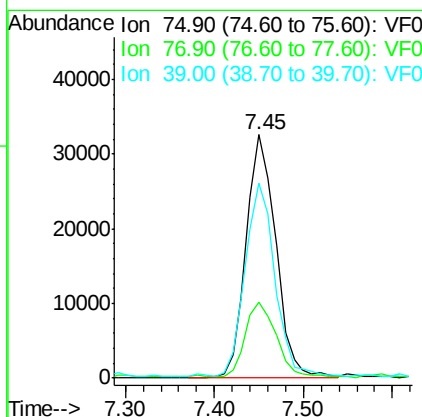
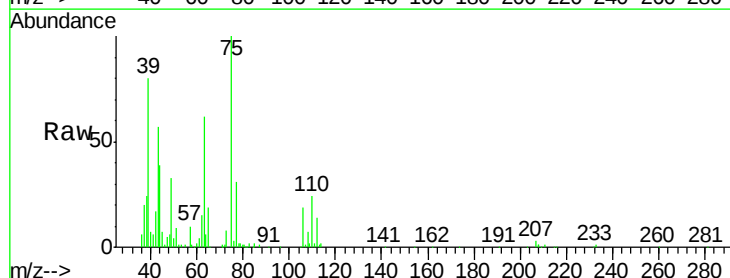
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#54
cis-1,3-Dichloropropene
Concen: 23.538 ug/l
RT: 7.45 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion: 75 Resp: 75337
Ion Ratio Lower Upper
75 100
77 30.5 24.0 36.0
39 79.5 58.7 88.1





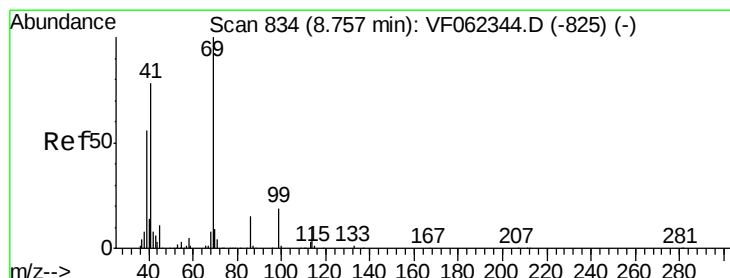
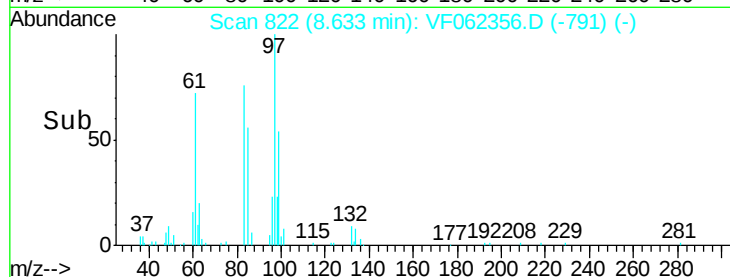
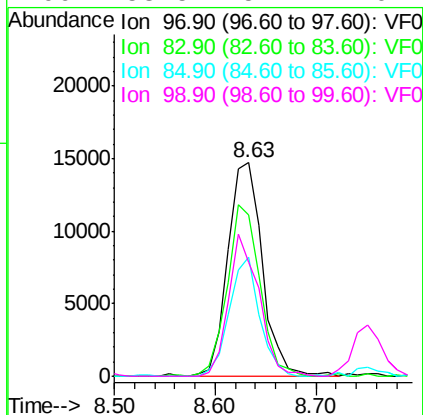
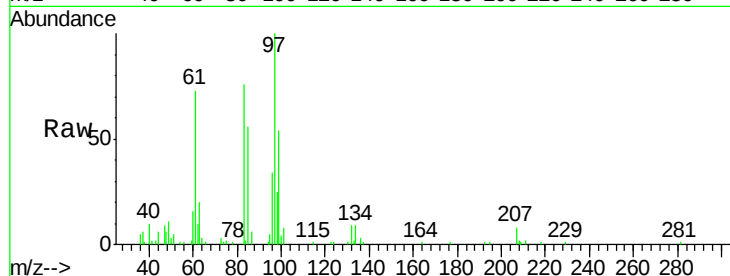
#55
 1,1,2-Trichloroethane
 Concen: 23.110 ug/l
 RT: 8.63 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBSD01

Tot Ion:	97	Resp:	35048
Ion	Ratio	Lower	Upper
97	100		
83	75.6	68.5	102.7
85	55.7	45.4	68.2
99	53.5	52.7	79.1

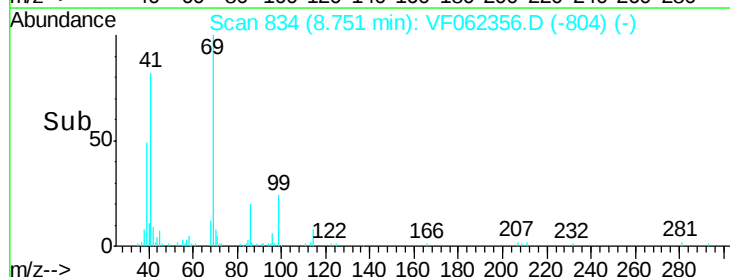
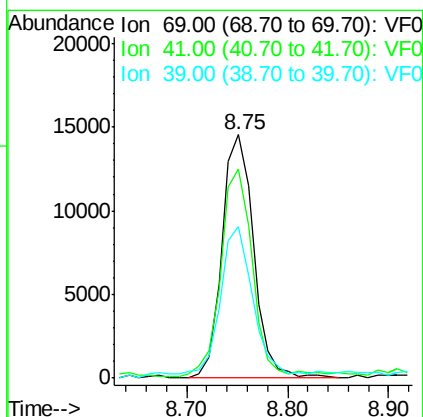
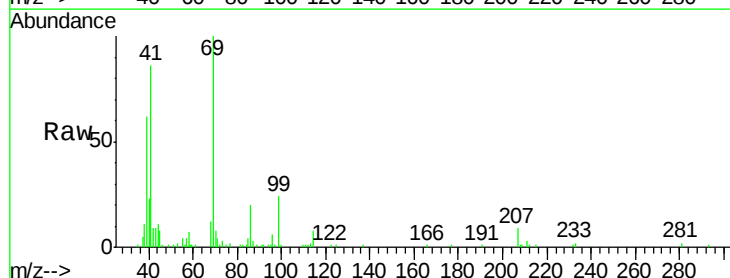
Manual Integrations
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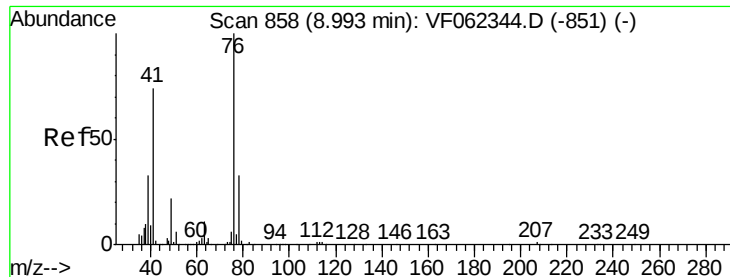
MMDadoda
 5/8/2019 11:10:45 AM



#56
 Ethyl methacrylate
 Concen: 19.832 ug/l
 RT: 8.75 min Scan# 834
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Tgt Ion:	69	Resp:	31749
Ion	Ratio	Lower	Upper
69	100		
41	83.0	66.3	99.5
39	68.0	50.1	75.1





#57

1,3-Dichloropropane

Concen: 22.812 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion: 76 Resp: 52258

Ion Ratio Lower Upper

76 100

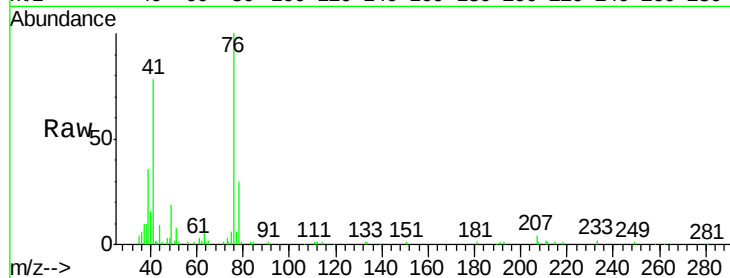
78 30.5 26.4 39.6

Manual Integrations

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5/8/2019 11:10:45 AM



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0

25000

20000

15000

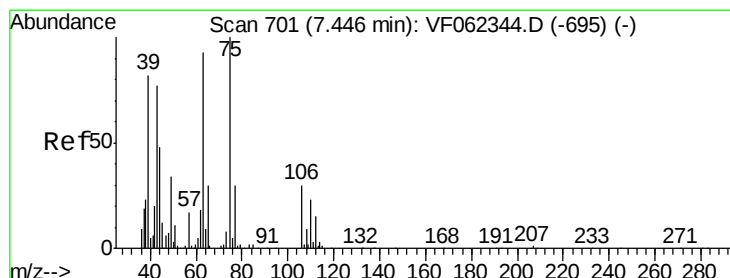
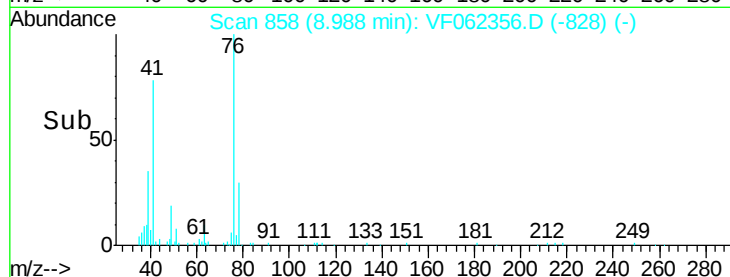
10000

5000

0

8.90 9.00 9.10

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 109.086 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF062356.D

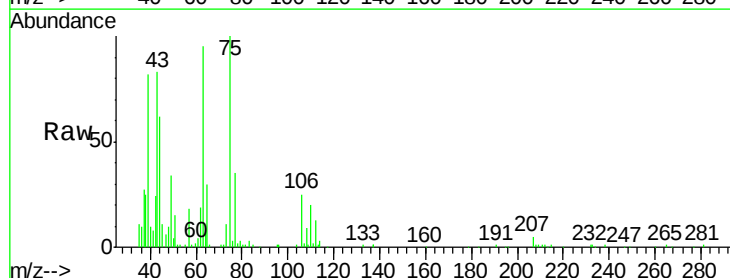
Acq: 7 May 2019 14:37

Tgt Ion: 63 Resp: 52504

Ion Ratio Lower Upper

63 100

106 28.4 25.8 38.8



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

25000

20000

15000

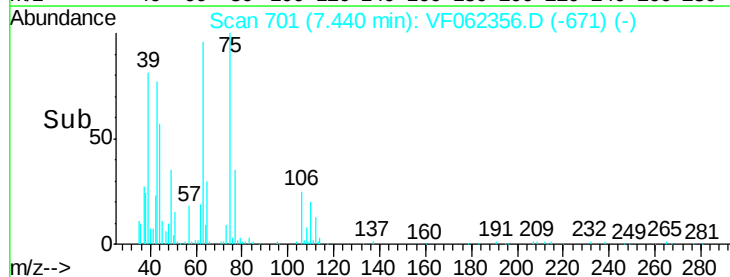
10000

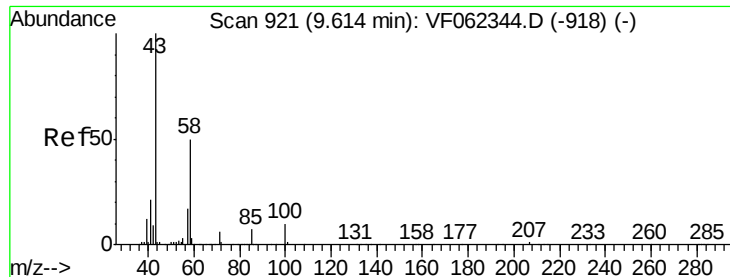
5000

0

7.30 7.40 7.50

Time-->





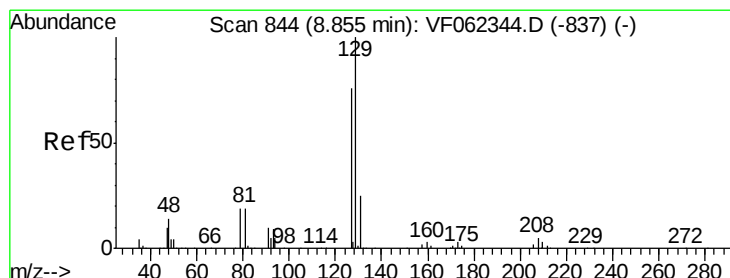
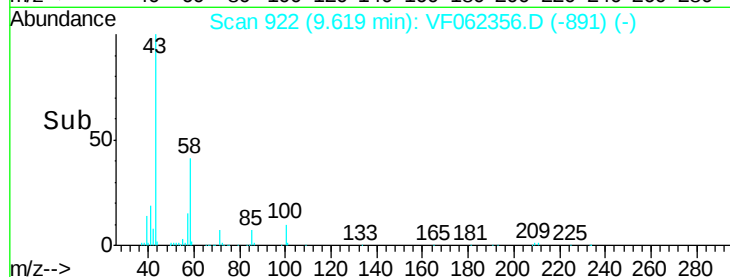
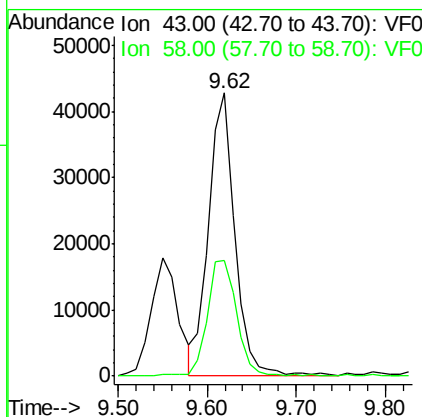
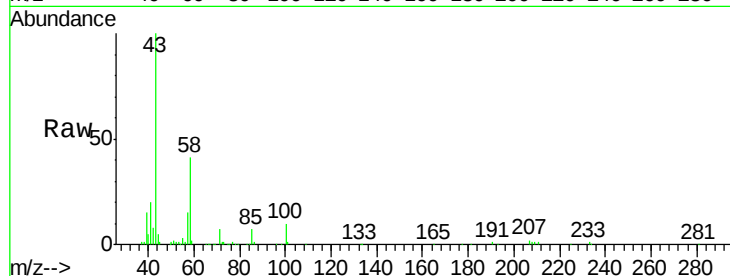
#59
2-Hexanone
Concen: 104.291 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion: 43 Resp: 87425
Ion Ratio Lower Upper
43 100
58 46.2 24.3 73.0

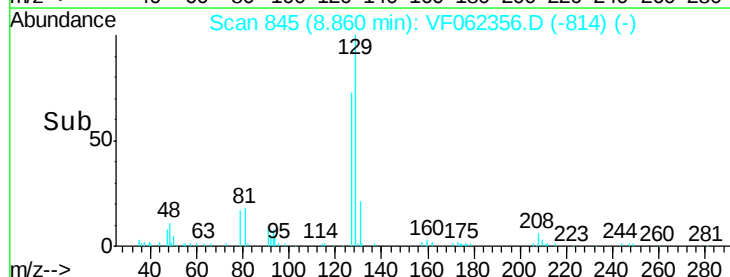
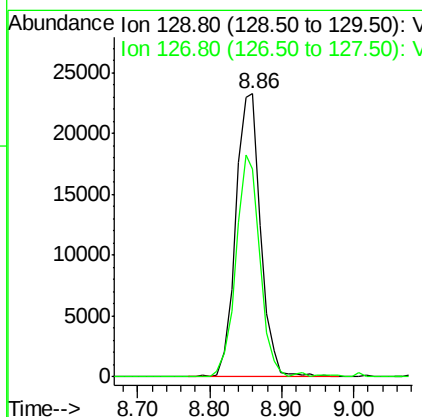
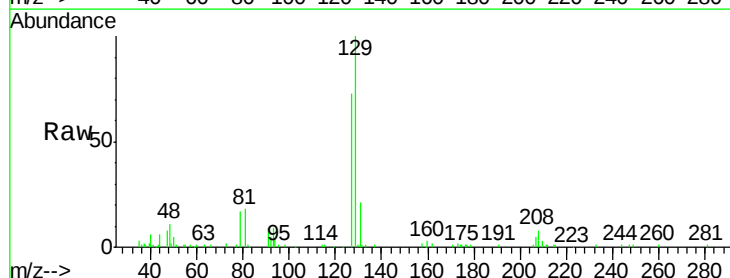
Manual Integrations
APPROVED

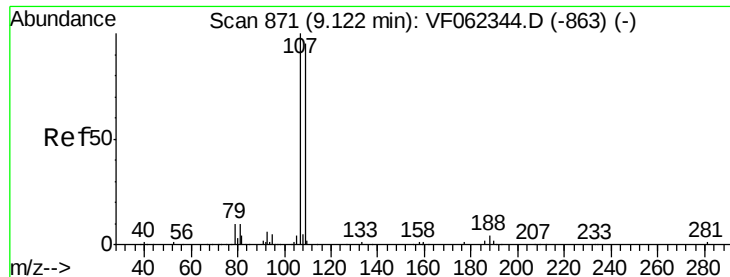
MMDadoda
5/8/2019 11:10:45 AM



#60
Dibromochloromethane
Concen: 22.576 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion: 129 Resp: 55997
Ion Ratio Lower Upper
129 100
127 74.6 38.5 115.3





#61

1,2-Dibromoethane

Concen: 21.788 ug/l

RT: 9.13 min Scan# 872

Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion:107 Resp: 38837

Ion Ratio Lower Upper

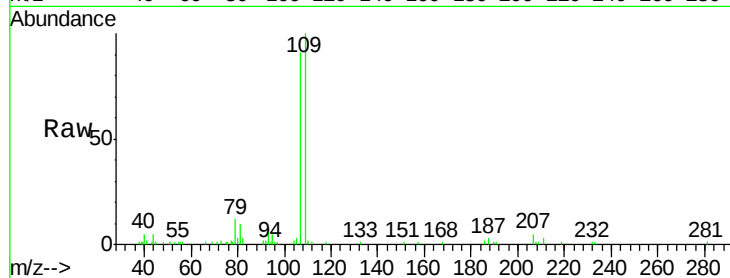
107 100

109 101.2 75.2 112.8

Manual Integrations
APPROVED

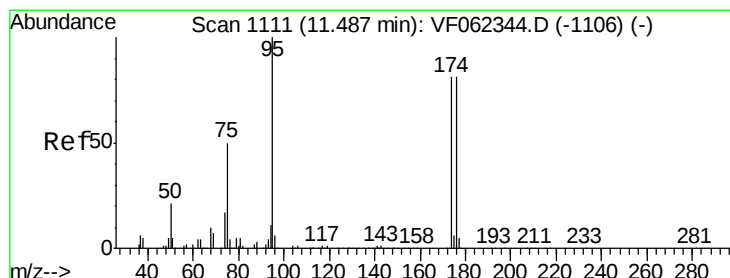
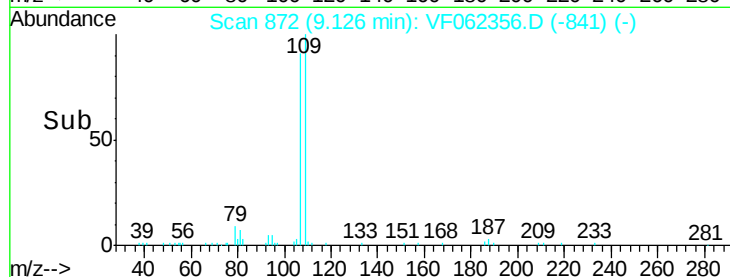
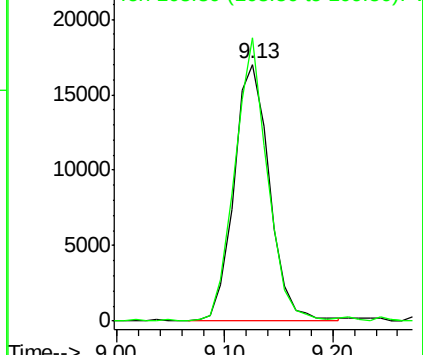
MMDadoda

5/8/2019 11:10:45 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.589 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

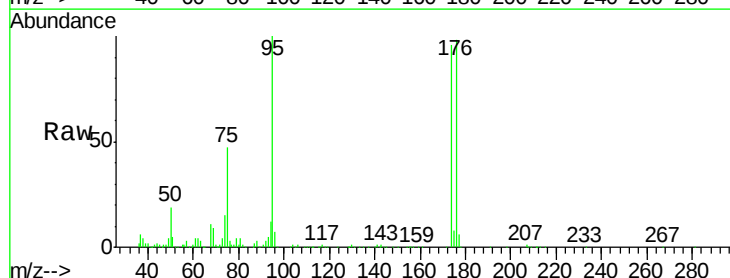
Tgt Ion: 95 Resp: 169507

Ion Ratio Lower Upper

95 100

174 95.6 0.0 191.8

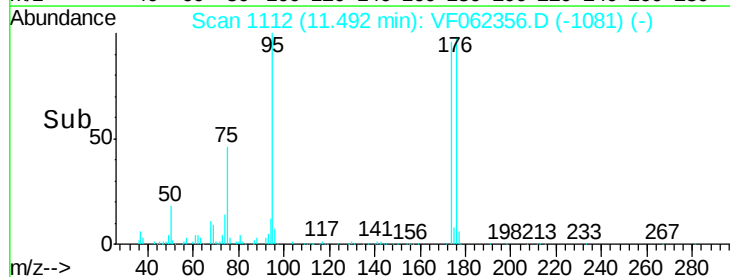
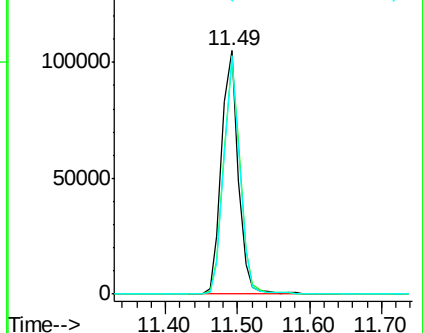
176 93.6 0.0 193.2

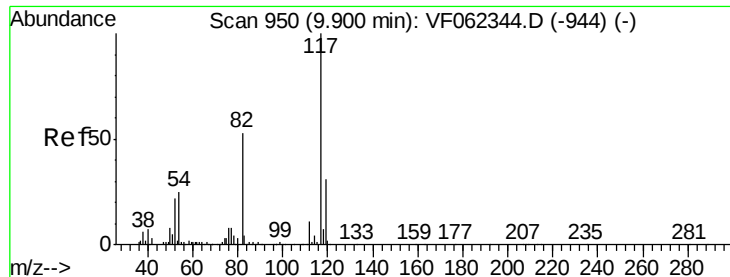


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





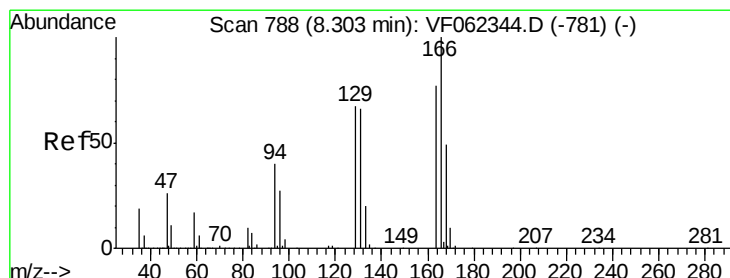
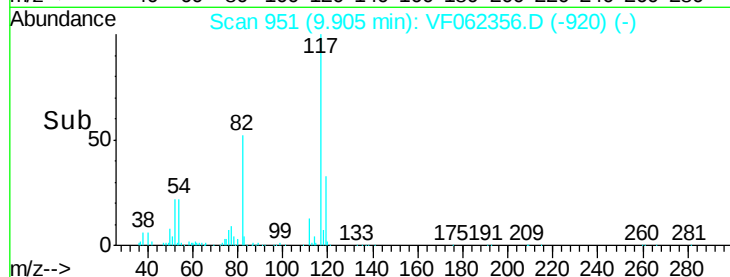
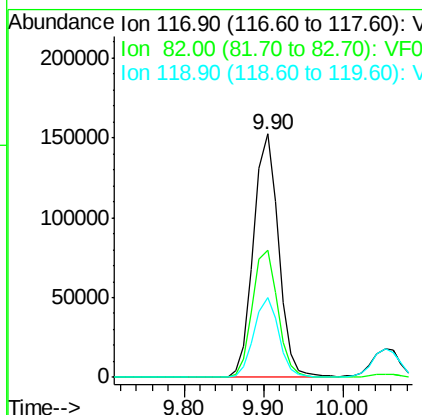
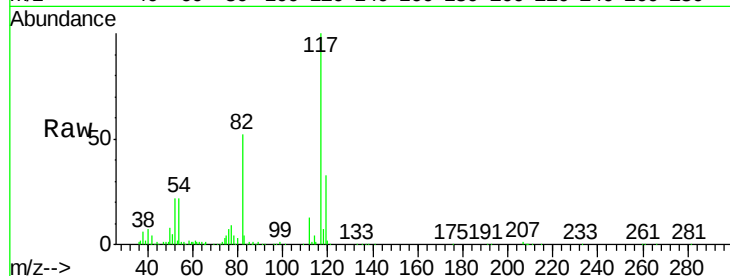
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. 0.00 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.3	42.2	63.2
119	32.9	25.0	37.4

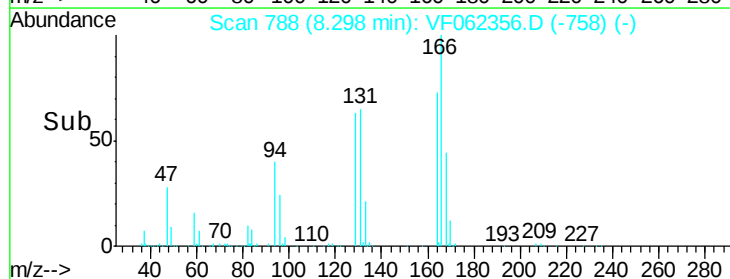
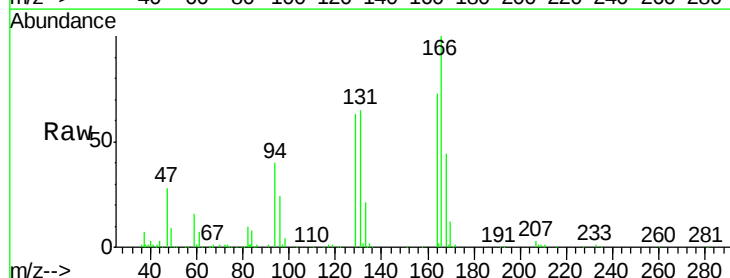
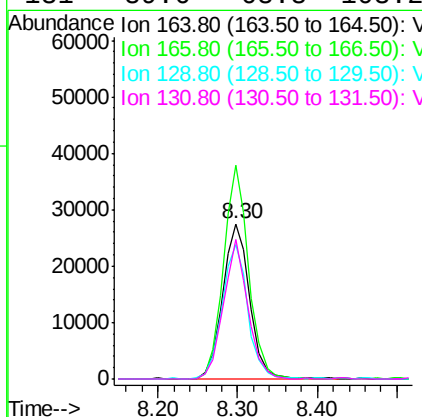
Manual Integrations
APPROVED

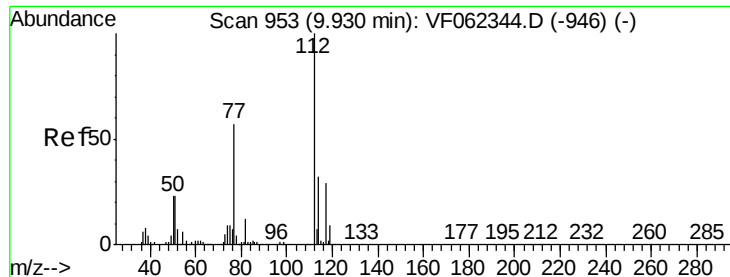
MMDadoda
5/8/2019 11:10:45 AM



#64
Tetrachloroethene
Concen: 24.374 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	137.6	104.2	156.4
129	86.4	69.6	104.4
131	89.6	68.8	103.2





#65

Chlorobenzene

Concen: 23.889 ug/l

RT: 9.92 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion:112 Resp: 131009

Ion Ratio Lower Upper

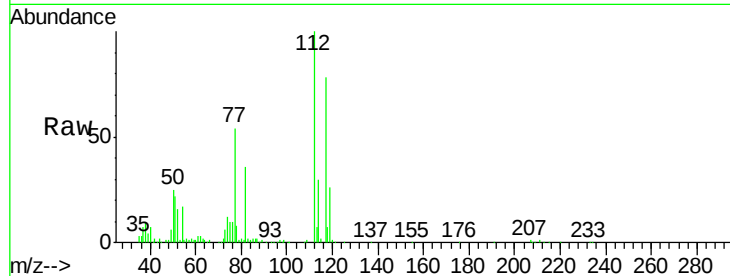
112 100

114 30.4 25.4 38.0

Manual Integrations
APPROVED

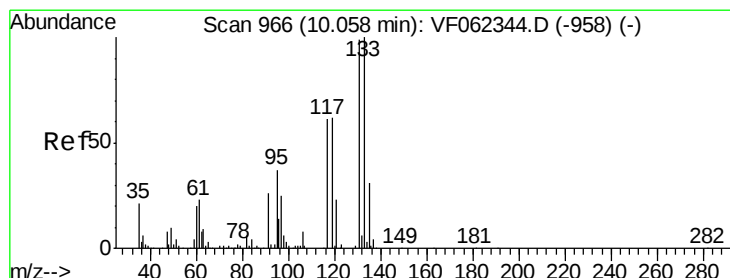
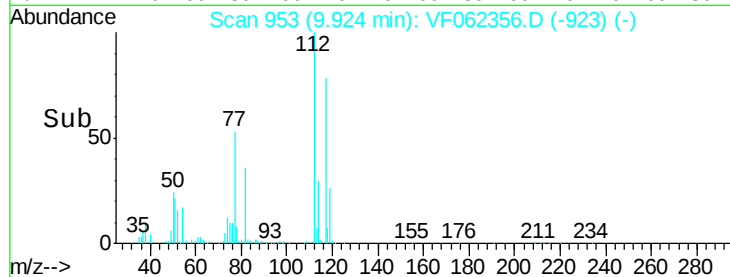
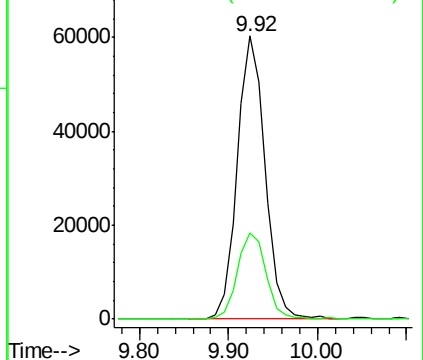
MMDadoda

5/8/2019 11:10:45 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 23.422 ug/l

RT: 10.05 min Scan# 966

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

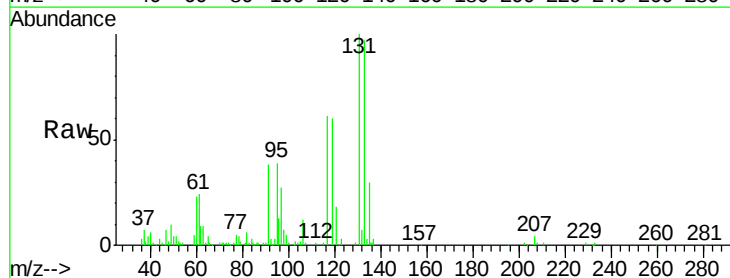
Tgt Ion:131 Resp: 64796

Ion Ratio Lower Upper

131 100

133 99.0 50.2 150.7

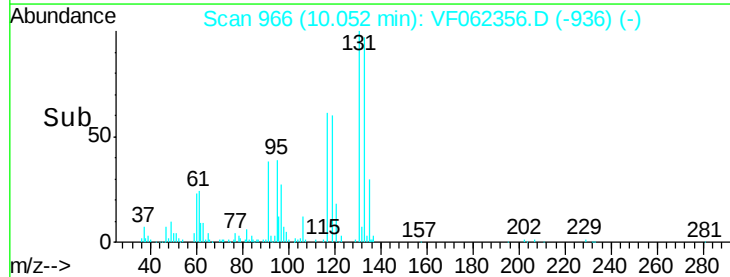
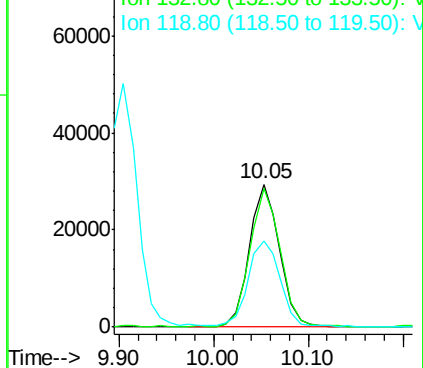
119 65.8 31.6 95.0

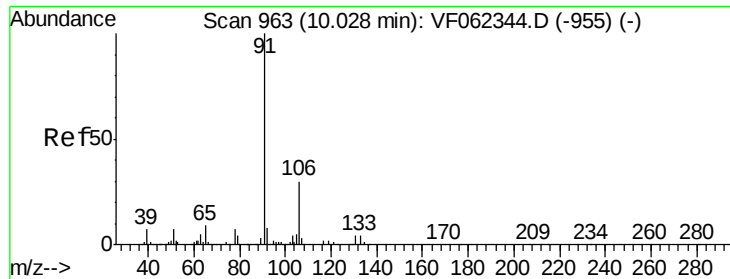


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





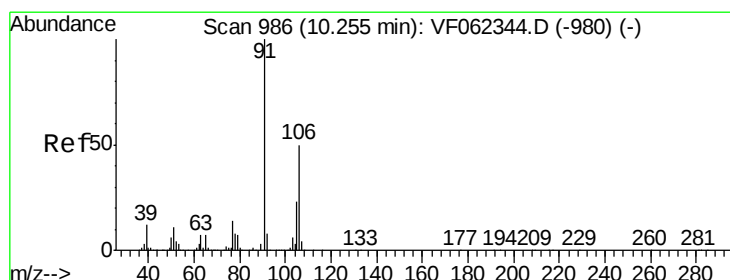
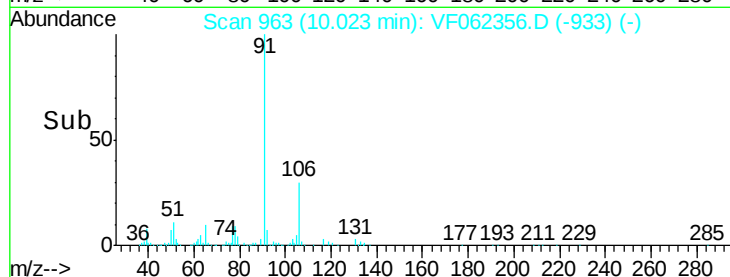
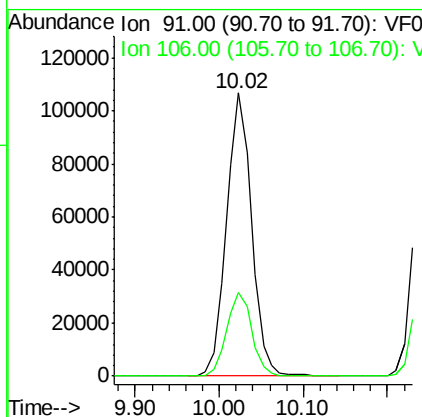
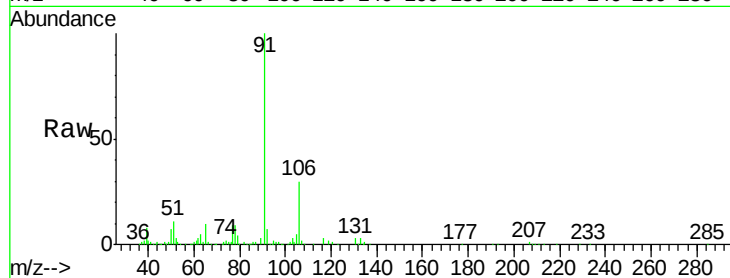
#67
Ethyl Benzene
Concen: 23.055 ug/l
RT: 10.02 min Scan# 963
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion: 91 Resp: 221391
Ion Ratio Lower Upper
91 100
106 29.6 24.1 36.1

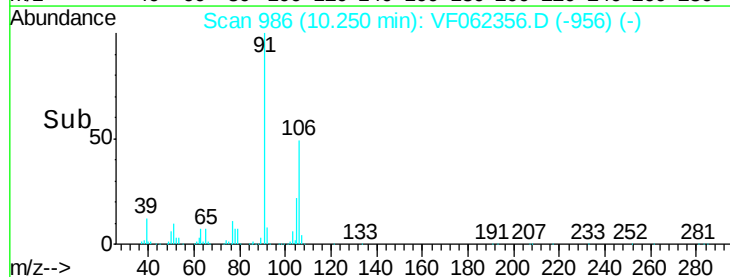
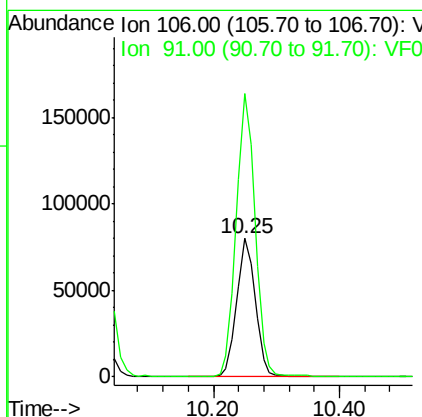
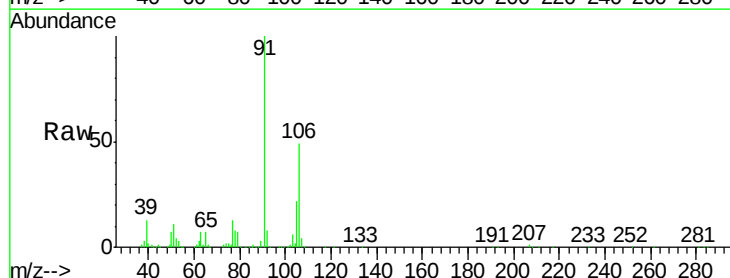
Manual Integrations
APPROVED

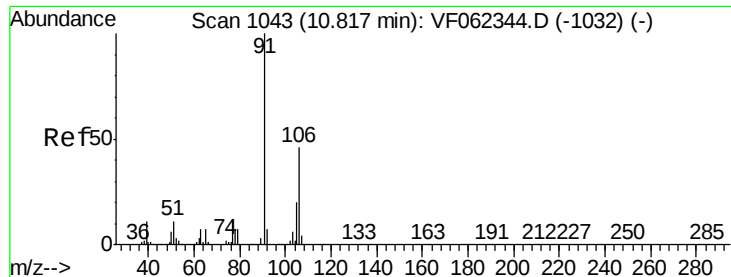
MMDadoda
5/8/2019 11:10:45 AM



#68
m/p-Xylenes
Concen: 45.836 ug/l
RT: 10.25 min Scan# 986
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion: 106 Resp: 162403
Ion Ratio Lower Upper
106 100
91 207.2 167.4 251.2





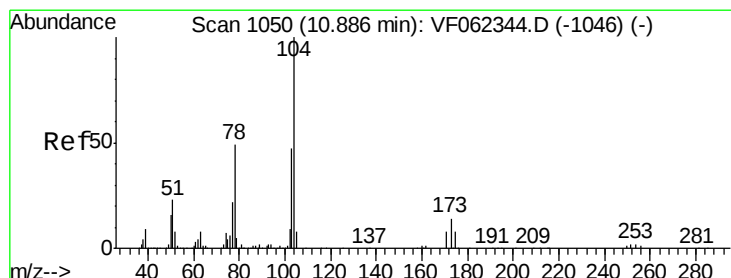
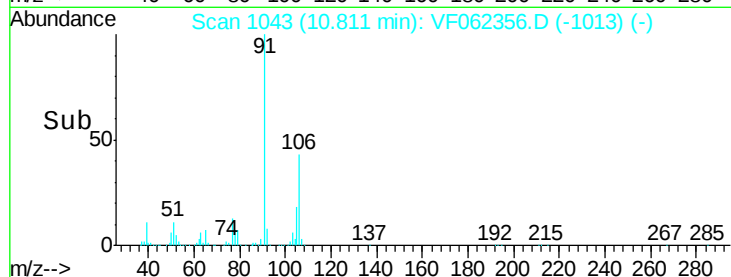
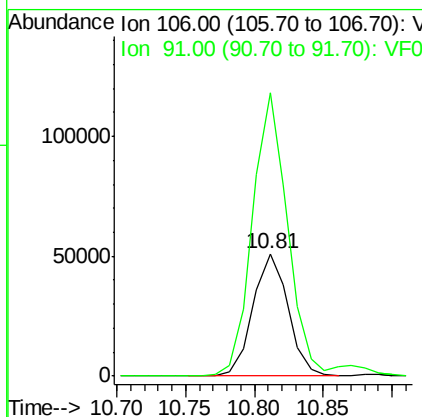
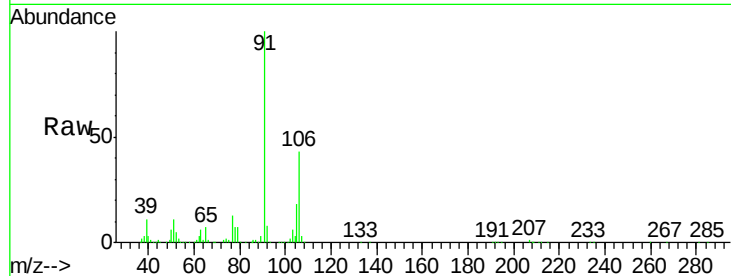
#69
o-Xylene
Concen: 23.959 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleID :
VF0507SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	91730		
91	91	237.5	111.3	333.8	

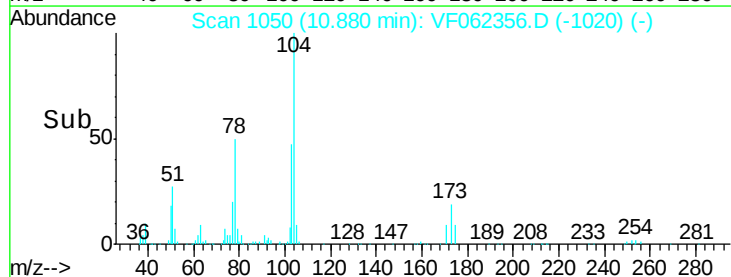
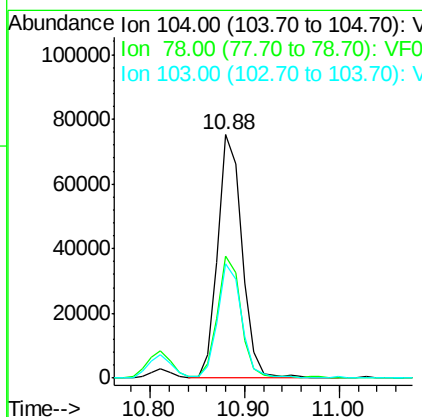
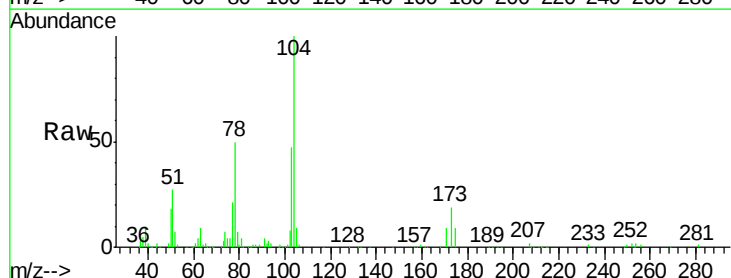
Manual Integrations
APPROVED

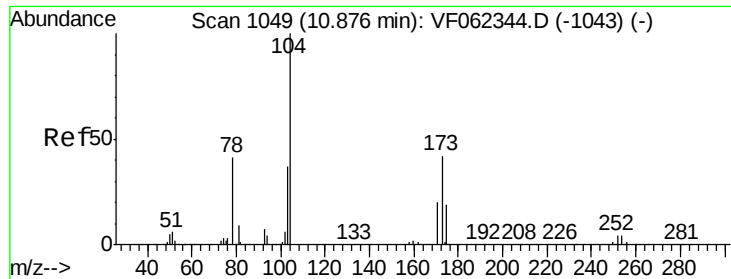
MMDadoda
5/8/2019 11:10:45 AM



#70
Styrene
Concen: 23.229 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	133288		
78	78	49.1	39.5	59.3	
103	103	46.1	38.4	57.6	





#71

Bromoform

Concen: 21.755 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

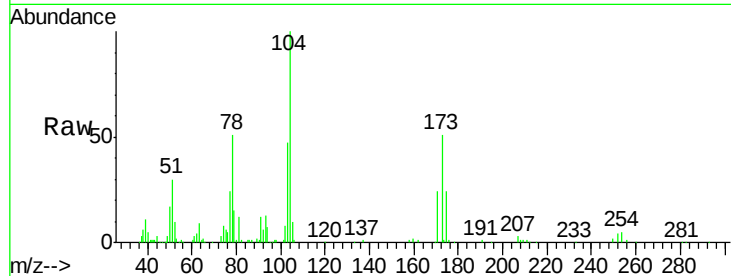
ClientSampleId :

VF0507SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.8	71.2
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
5/8/2019 11:10:45 AM

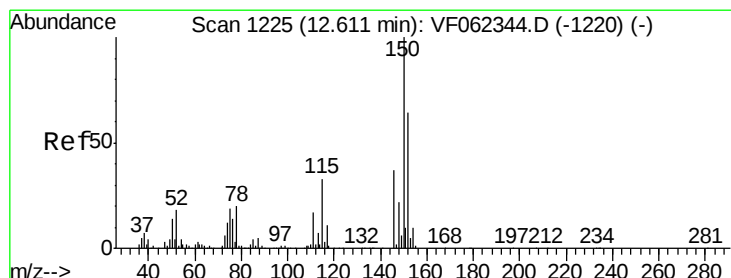
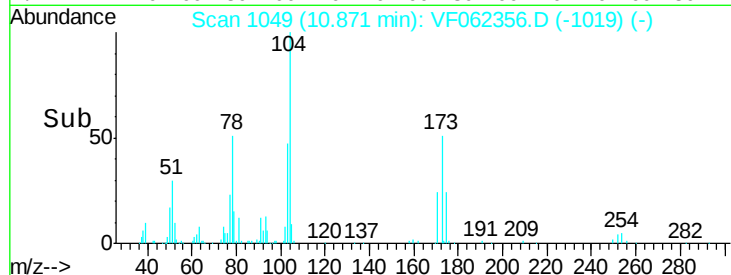
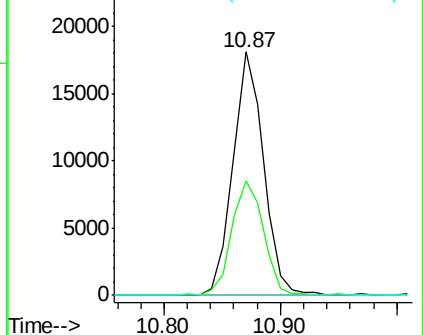


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

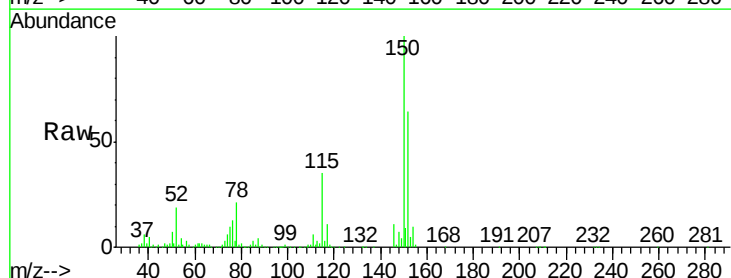
RT: 12.61 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	26.4	79.2
150	163.4	0.0	335.0

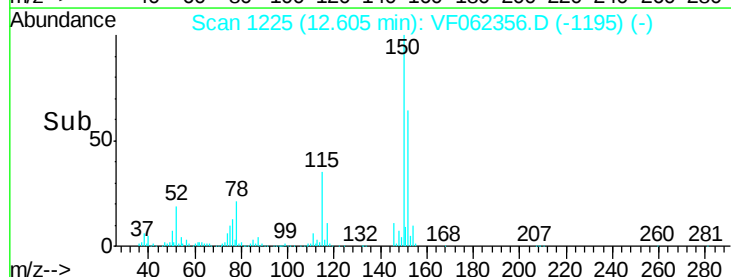
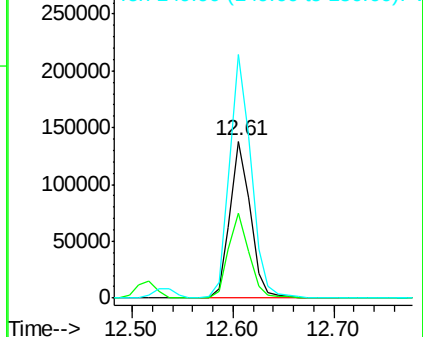


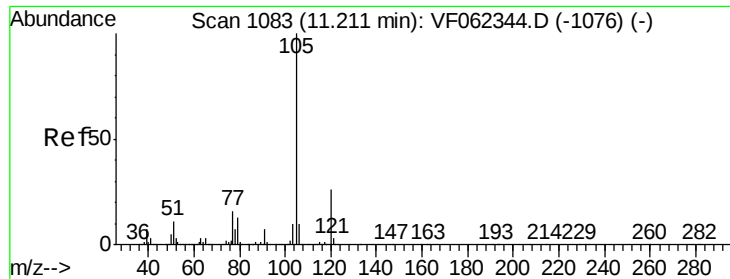
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 24.761 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion:105 Resp: 285739

Ion Ratio Lower Upper

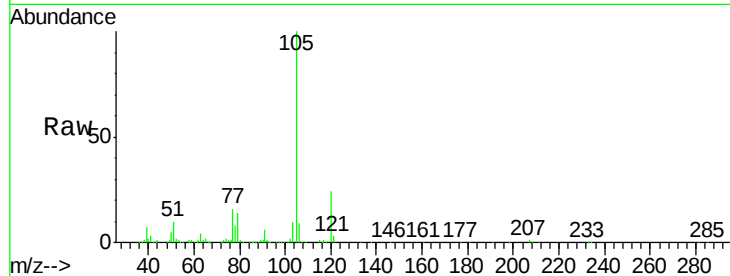
105 100

120 25.3 12.7 38.0

Manual Integrations
APPROVED

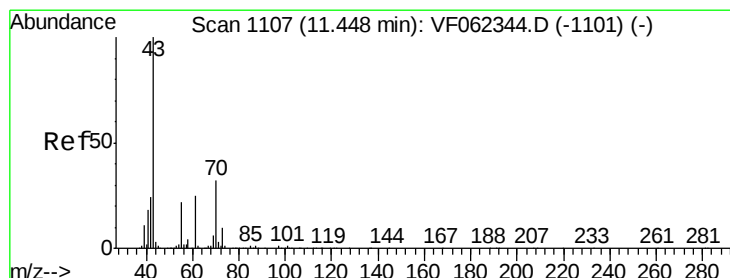
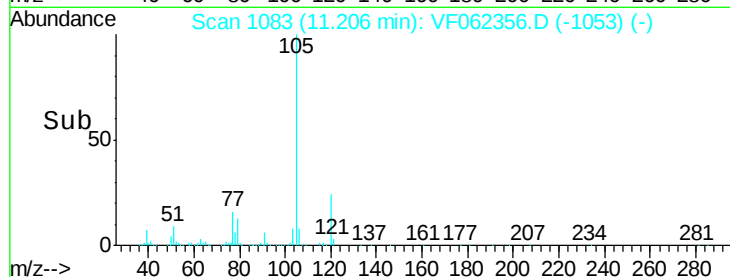
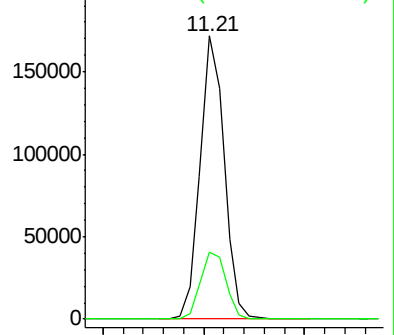
MMDadoda

5/8/2019 11:10:45 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.128 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion: 43 Resp: 54821

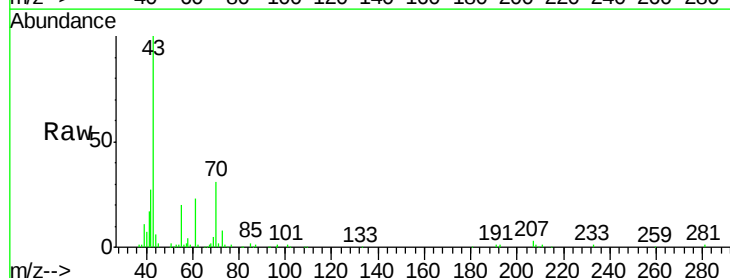
Ion Ratio Lower Upper

43 100

70 35.3 26.5 39.7

55 24.3 17.8 26.6

61 21.6 20.2 30.2

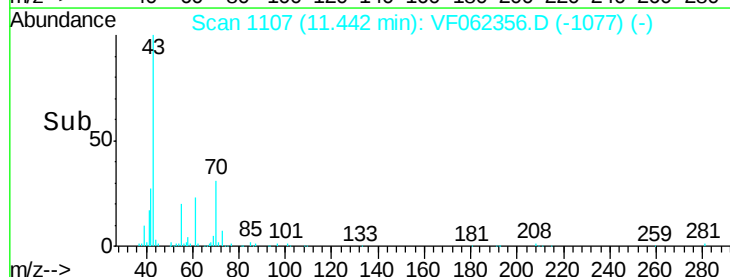
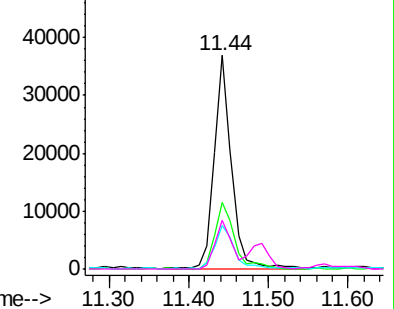


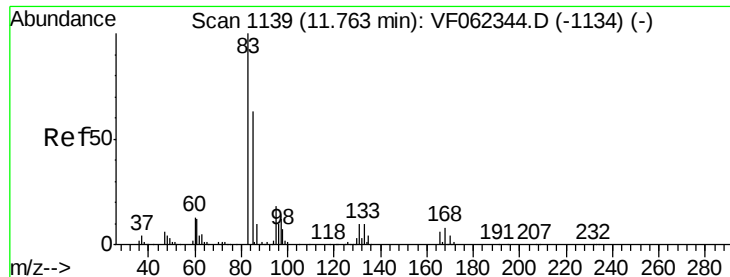
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 23.781 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

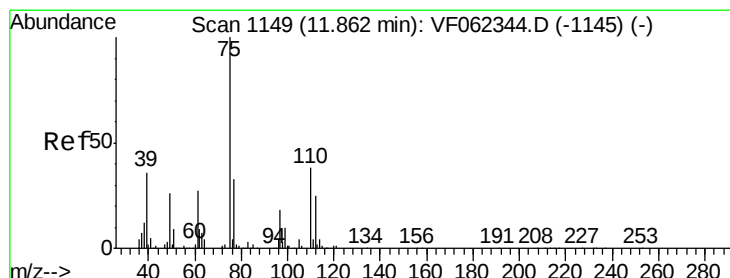
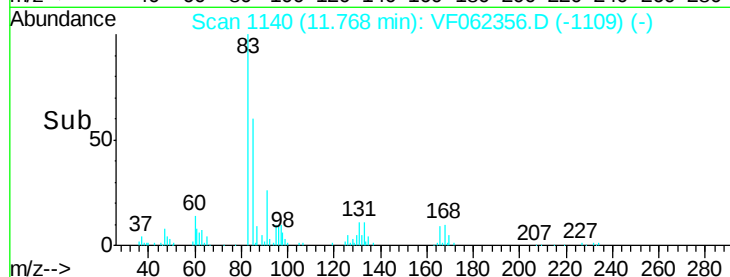
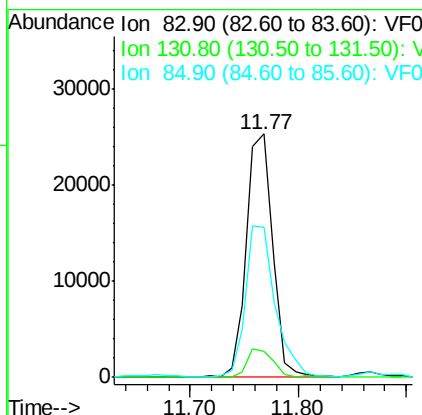
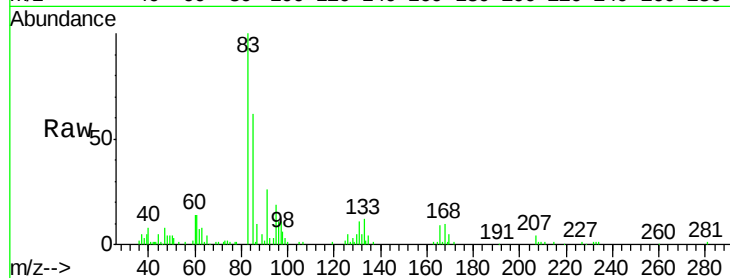
ClientSampleId :

VF0507SBS01

Tot Ion:	83	Resp:	42970
Ion	Ratio	Lower	Upper
83	100		
131	11.3	5.8	17.4
85	70.5	35.3	105.7

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#76

1,2,3-Trichloropropane

Concen: 24.291 ug/l

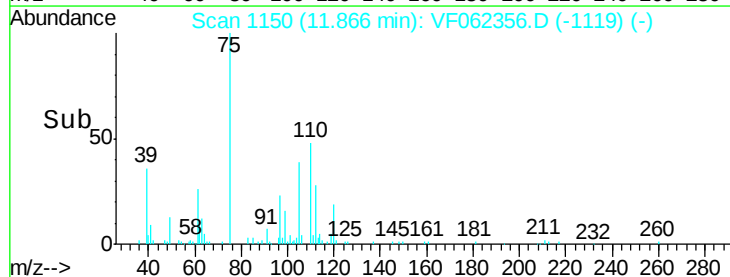
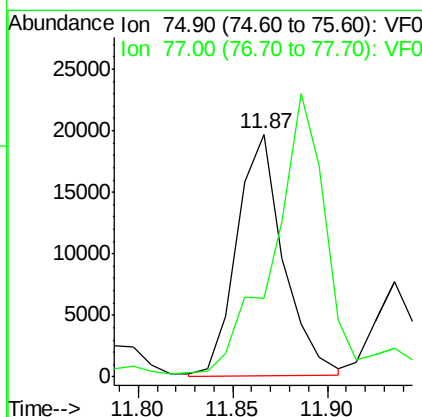
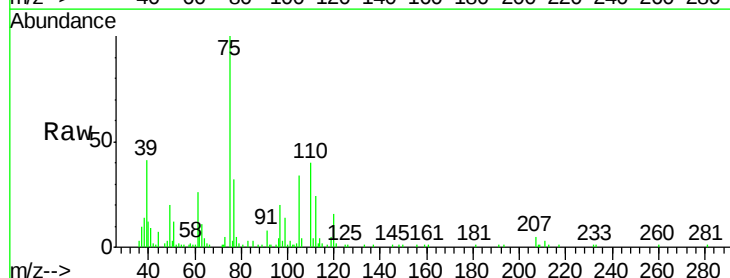
RT: 11.87 min Scan# 1150

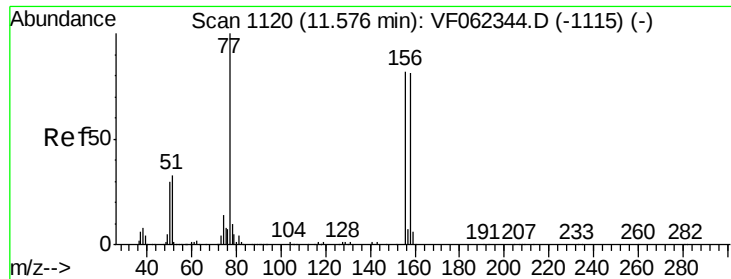
Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion:	75	Resp:	33486
Ion	Ratio	Lower	Upper
75	100		
77	142.9	0.0	0.0#





#77

Bromobenzene

Concen: 24.115 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

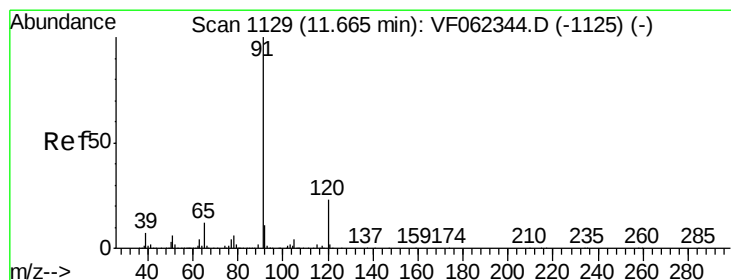
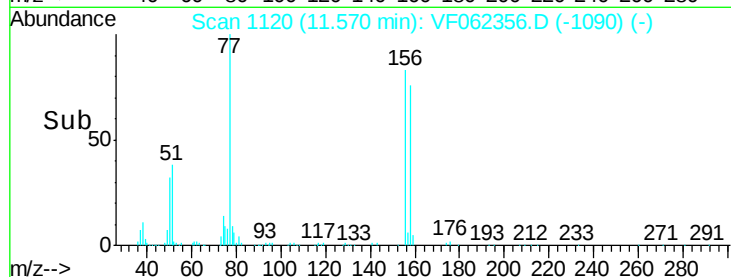
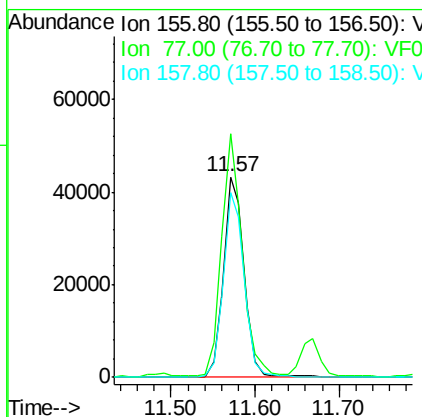
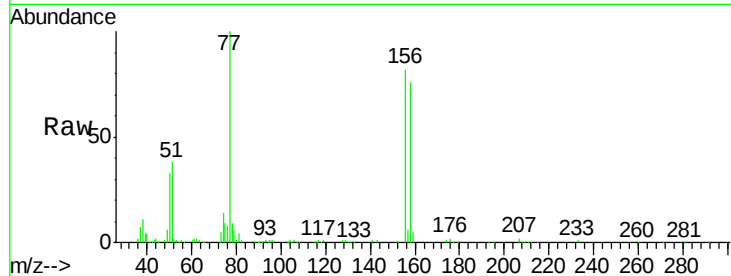
ClientSampleId :

VF0507SBS01

Tot Ion:	156	Resp:	73037
Ion Ratio	Lower	Upper	
156	100		
77	123.7	64.8	194.3
158	93.9	49.1	147.3

Manual Integrations
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#78

n-propylbenzene

Concen: 24.102 ug/l

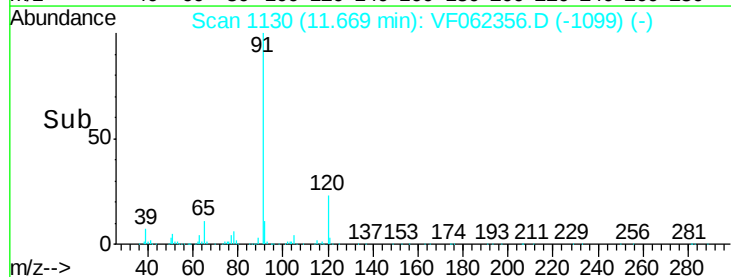
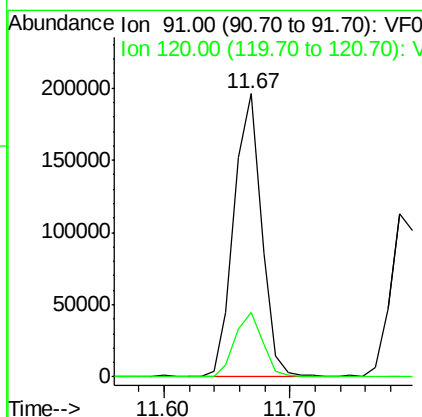
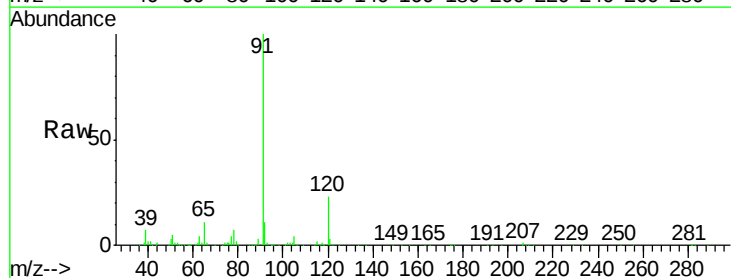
RT: 11.67 min Scan# 1130

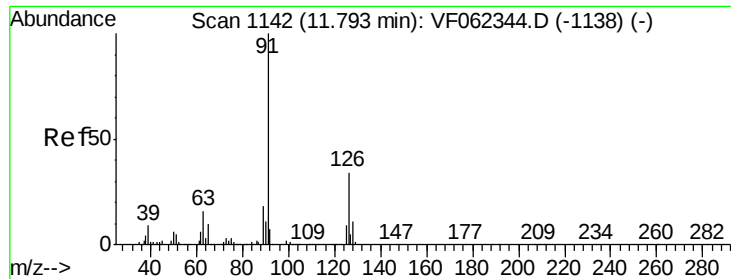
Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Tgt Ion:	91	Resp:	296120
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.9	35.5





#79

2-Chlorotoluene

Concen: 24.140 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBSD01

Tot Ion: 91 Resp: 184421

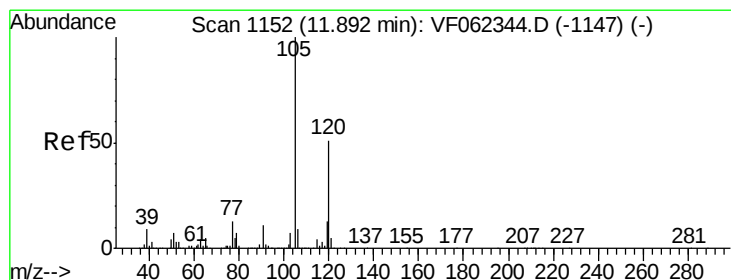
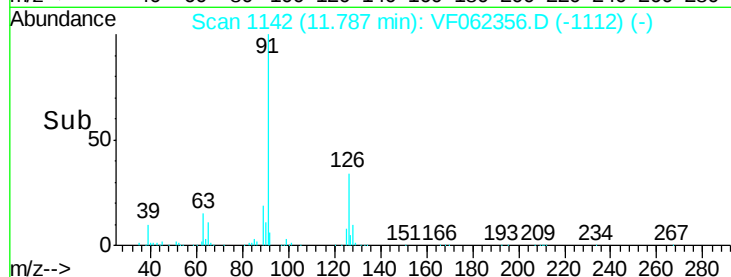
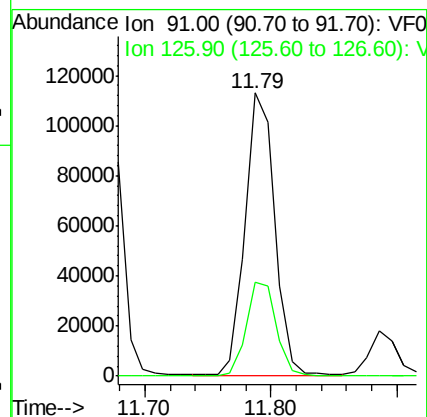
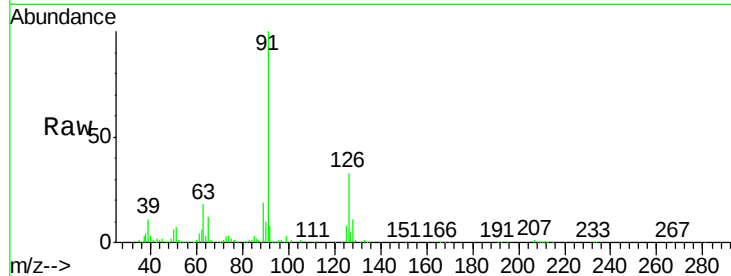
Ion Ratio Lower Upper

91 100

126 33.6 17.8 53.4

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#80

1,3,5-Trimethylbenzene

Concen: 25.128 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.01 min

Lab File: VF062356.D

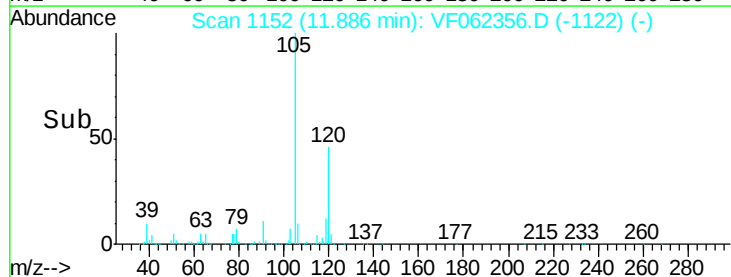
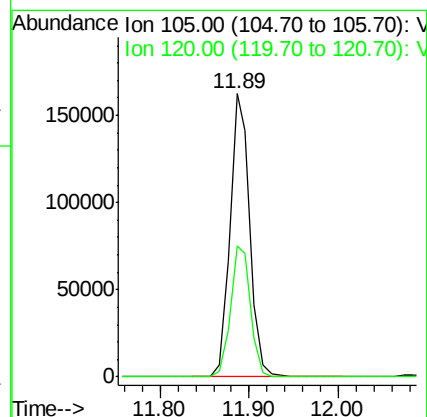
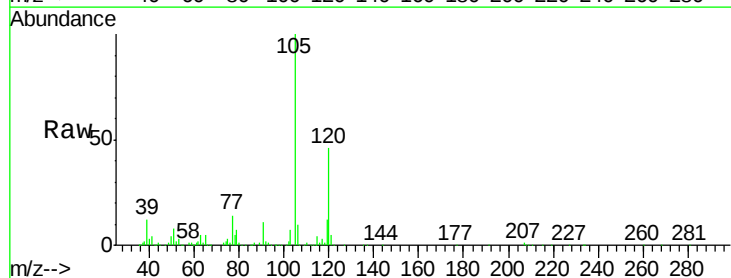
Acq: 7 May 2019 14:37

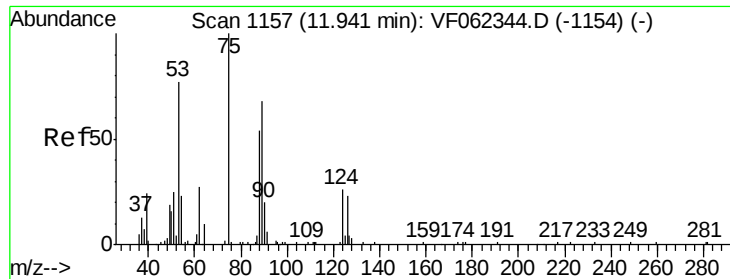
Tgt Ion: 105 Resp: 254164

Ion Ratio Lower Upper

105 100

120 47.1 24.6 74.0





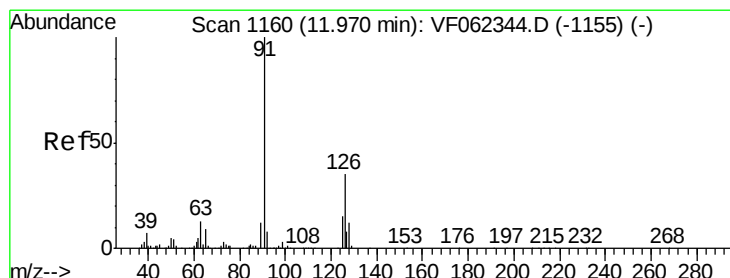
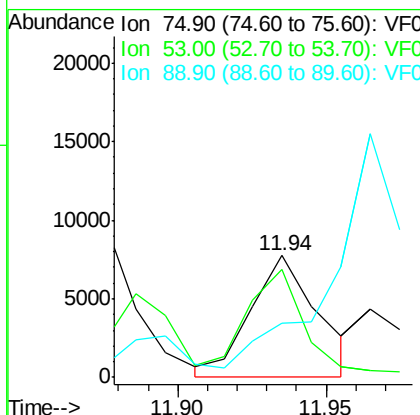
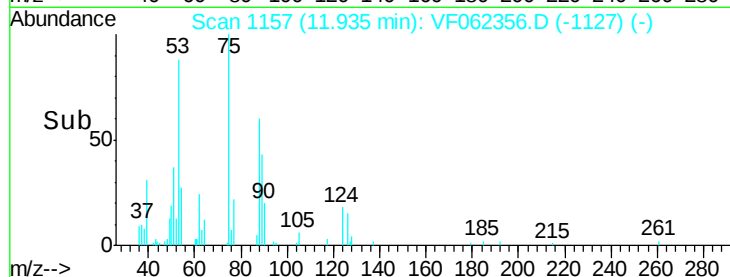
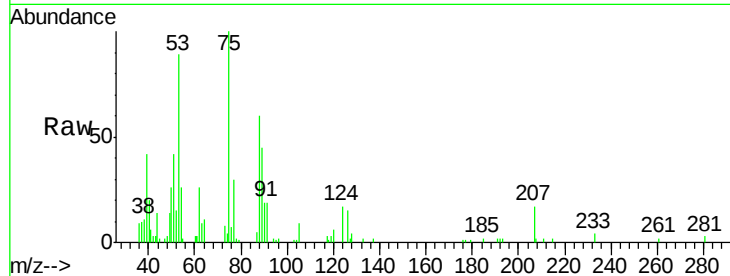
#81
trans-1,4-Dichloro-2-butene
Concen: 23.405 ug/l m
RT: 11.94 min Scan# 1157
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	82.0	71.9	107.9
89	0.0	0.0	0.0

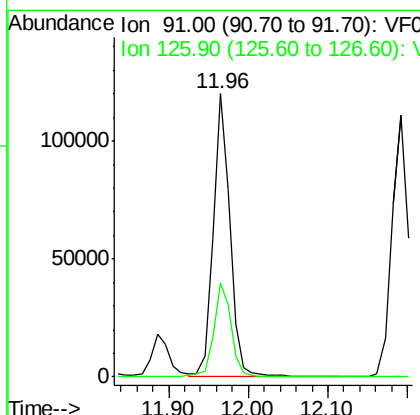
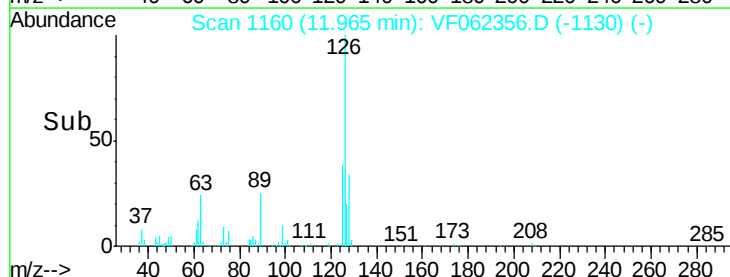
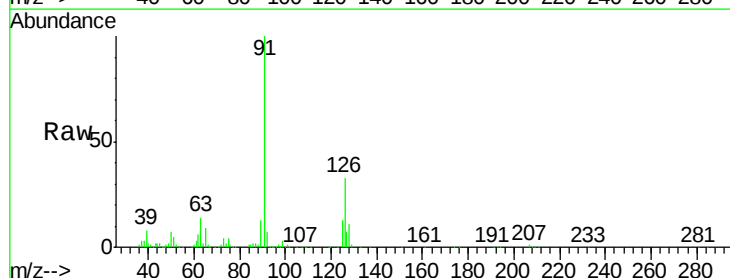
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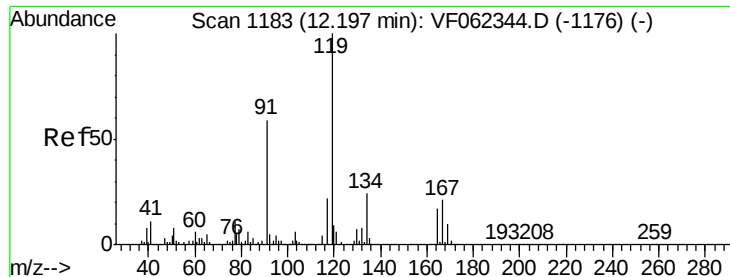
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#82
4-Chlorotoluene
Concen: 23.390 ug/l
RT: 11.96 min Scan# 1160
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.7	53.1





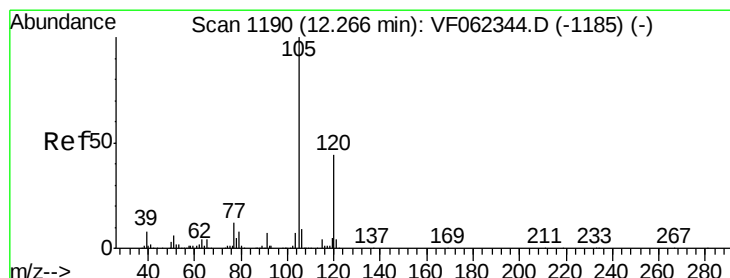
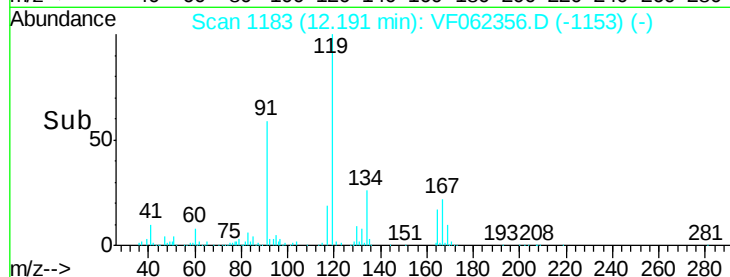
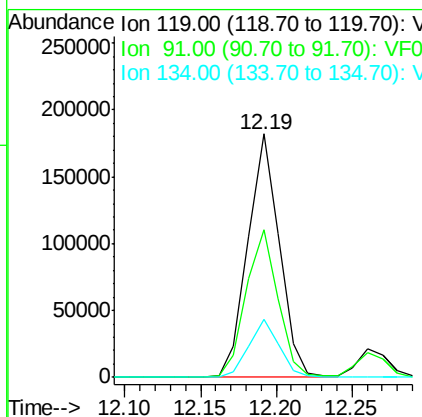
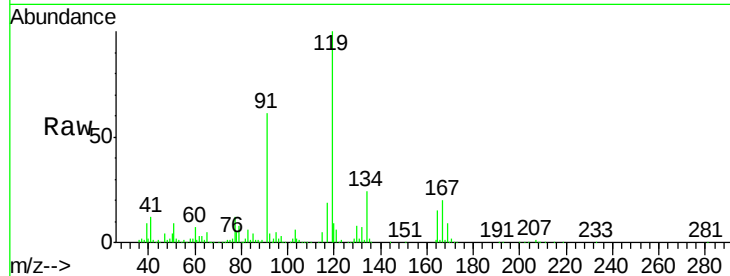
#83
tert-Butylbenzene
Concen: 25.094 ug/l
RT: 12.19 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	266749		
91	60.8		30.4	91.3
134	22.9		11.9	35.7

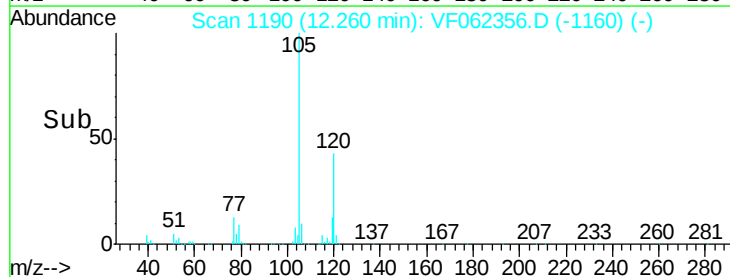
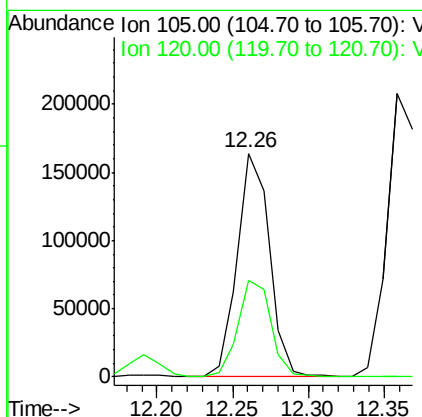
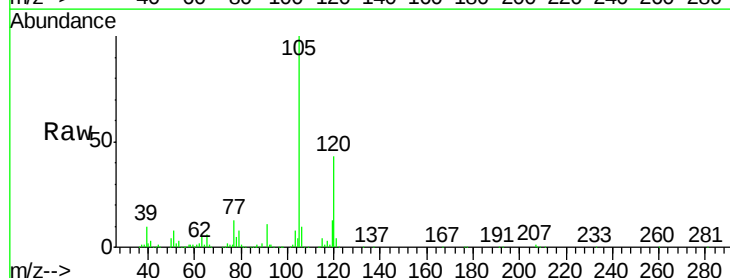
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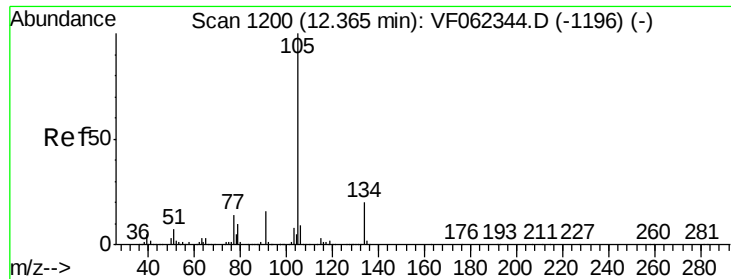
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 24.664 ug/l
RT: 12.26 min Scan# 1190
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	244138		
120	44.0		22.6	67.7





#85

sec-Butylbenzene

Concen: 24.503 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

VF0507SBS01

Tot Ion:105 Resp: 317036

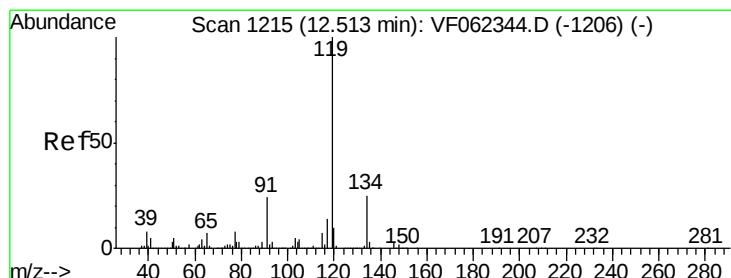
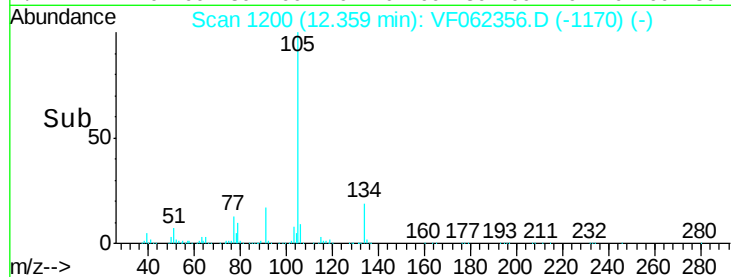
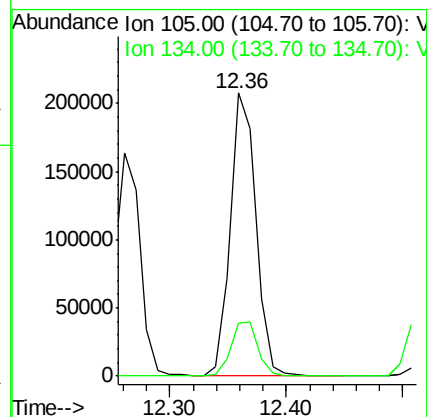
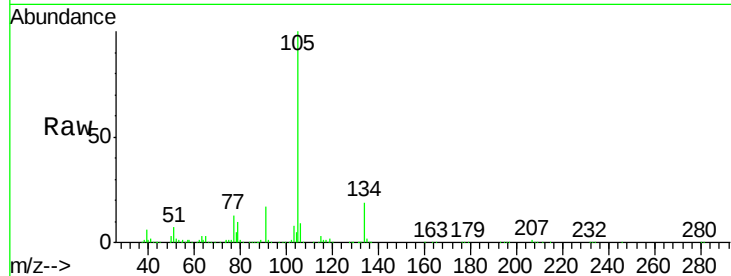
Ion Ratio Lower Upper

105 100

134 20.0 9.8 29.5

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 25.262 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VF062356.D

Acq: 7 May 2019 14:37

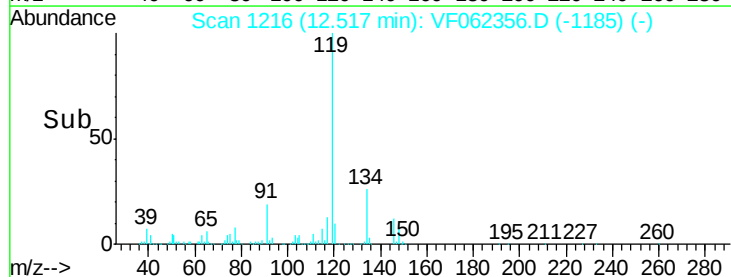
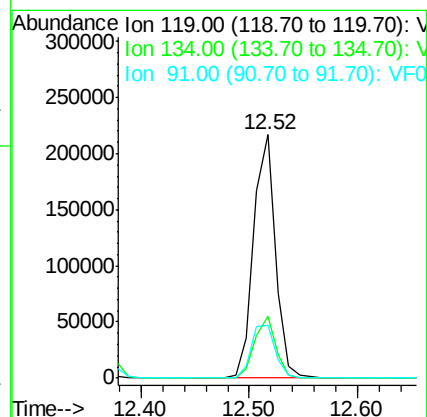
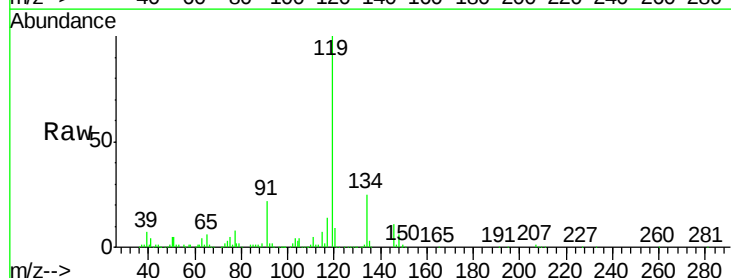
Tgt Ion:119 Resp: 303681

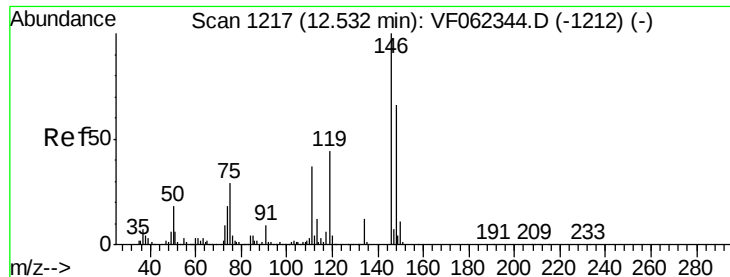
Ion Ratio Lower Upper

119 100

134 24.8 12.9 38.7

91 23.8 12.3 36.8





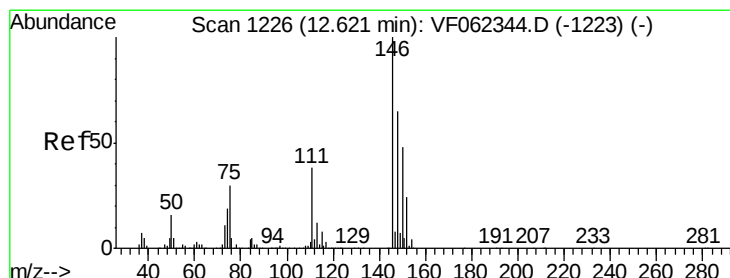
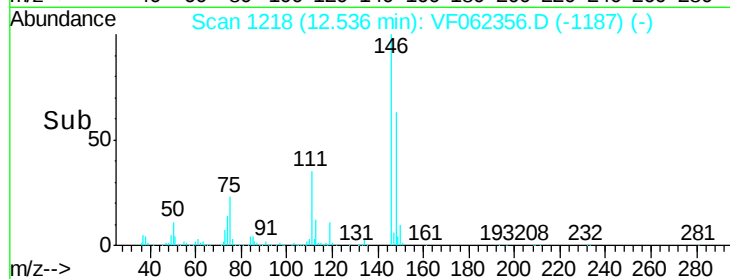
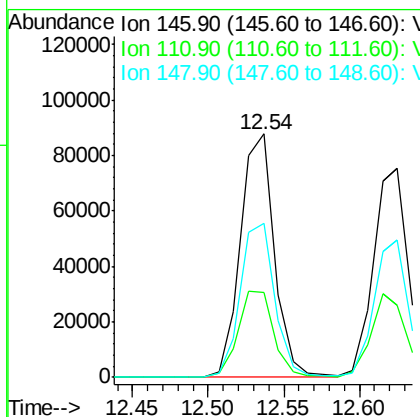
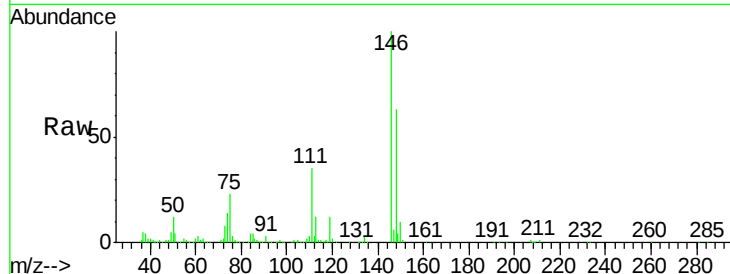
#87
 1,3-Dichlorobenzene
 Concen: 24.843 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.3	54.8
148	64.8	32.3	96.9

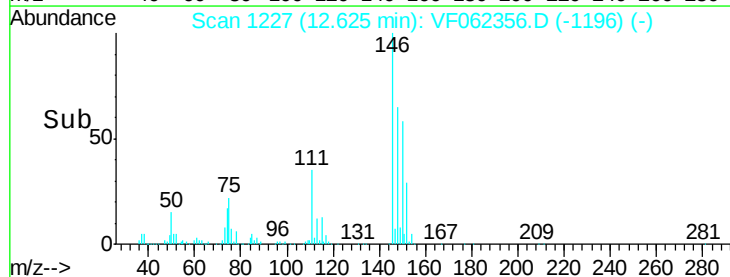
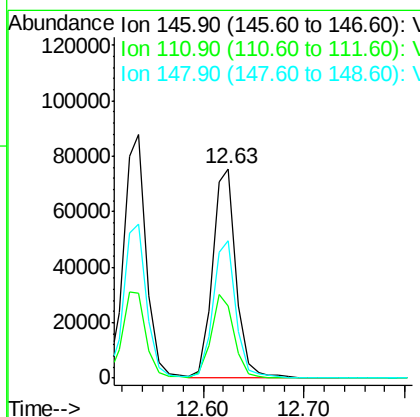
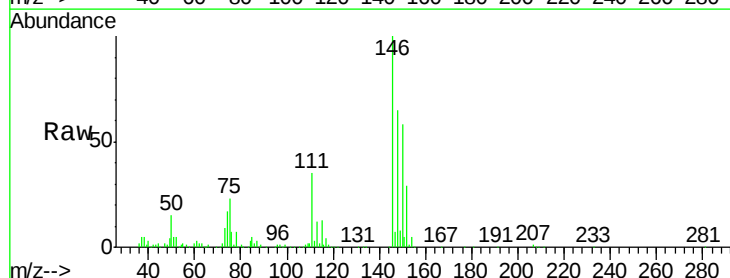
Manual Integrations
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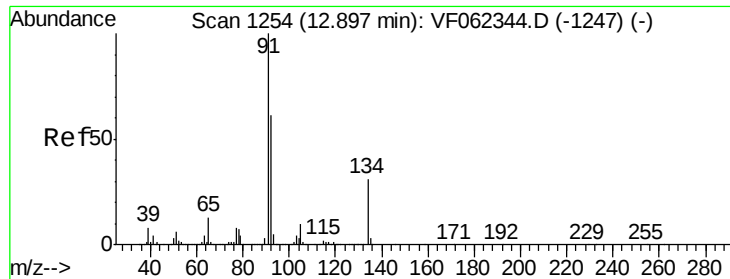
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#88
 1,4-Dichlorobenzene
 Concen: 22.998 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	18.8	56.3
148	64.8	32.2	96.6





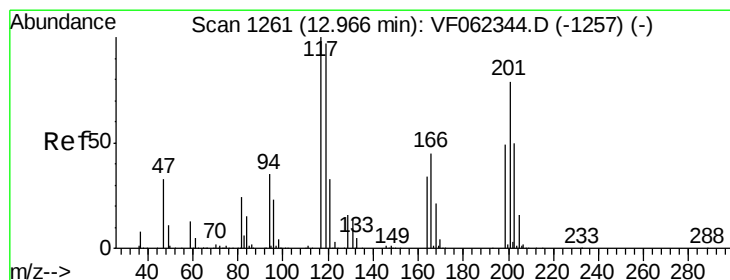
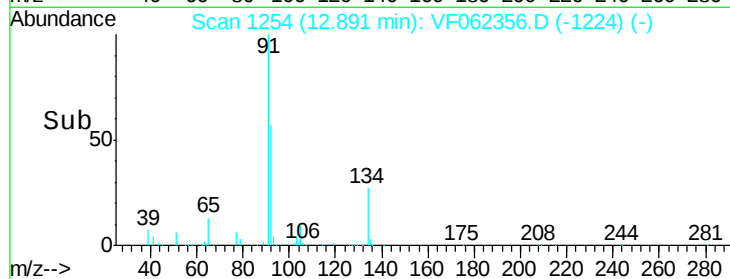
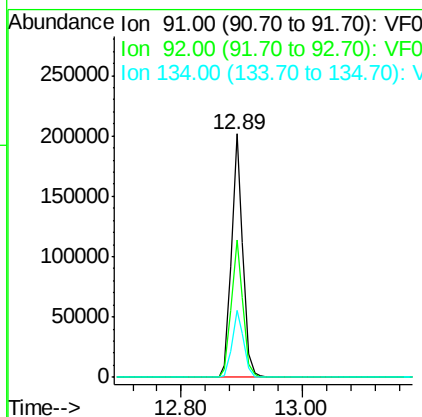
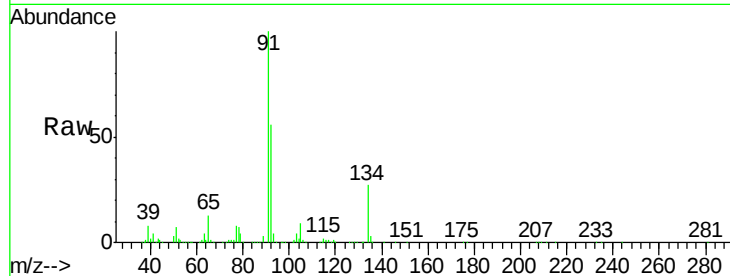
#89
n-Butylbenzene
Concen: 24.426 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.2	30.0	90.0
134	28.1	14.1	42.4

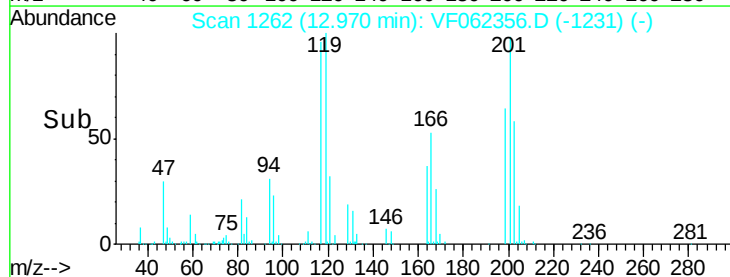
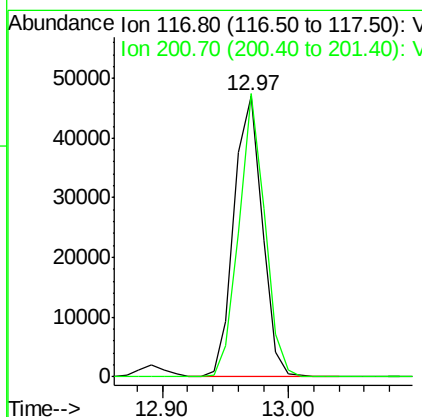
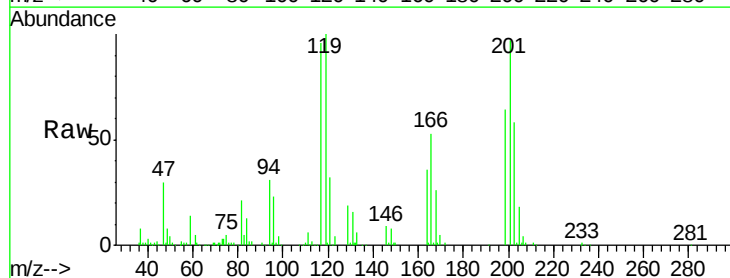
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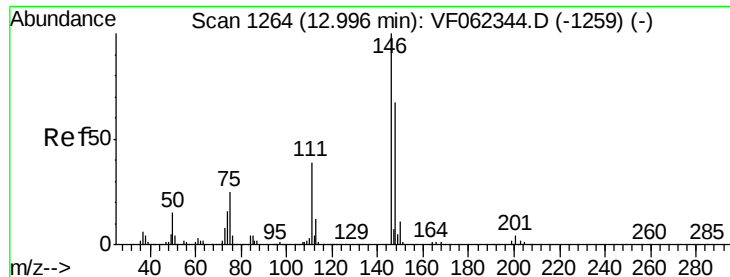
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#90
Hexachloroethane
Concen: 24.192 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.5	46.2	138.5





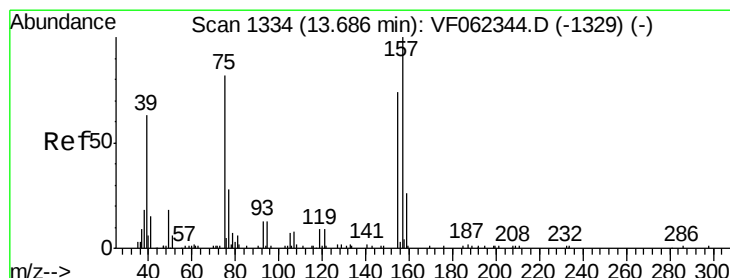
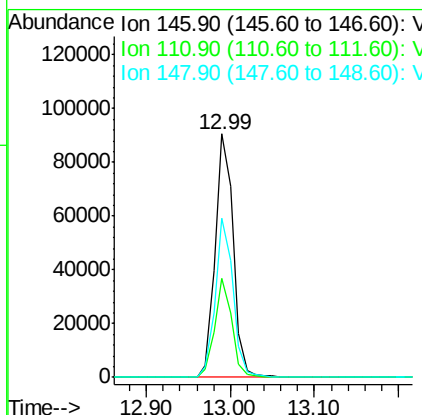
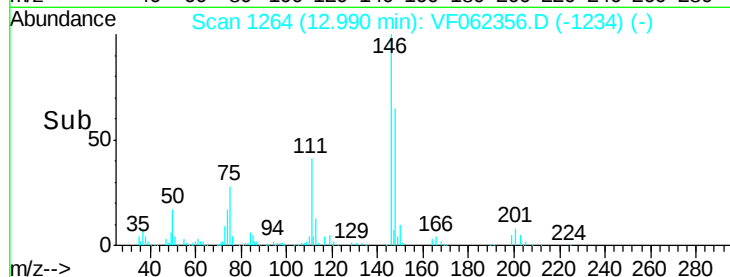
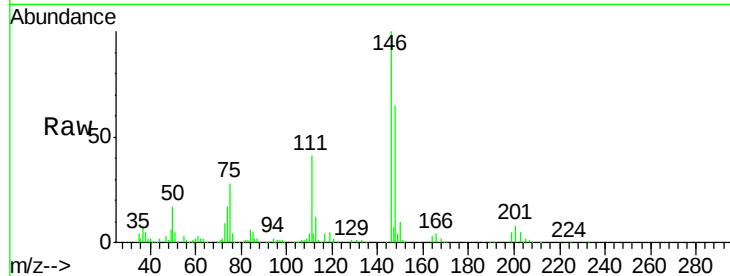
#91
 1,2-Dichlorobenzene
 Concen: 25.260 ug/l
 RT: 12.99 min Scan# 1264
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	20.0	60.0
148	64.0	33.1	99.5

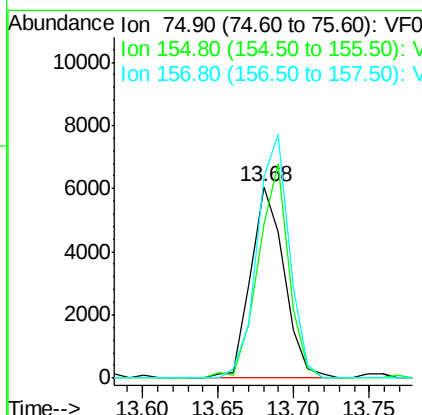
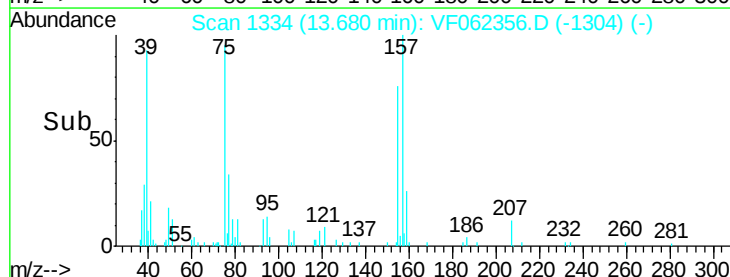
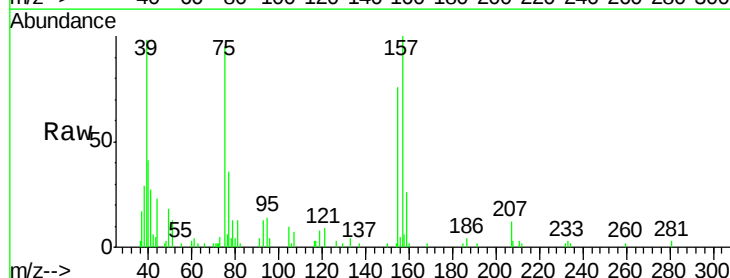
Manual Integrations
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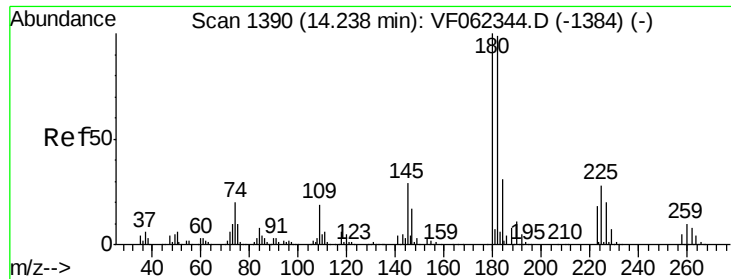
MMDadoda
 5/8/2019 11:10:45 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.221 ug/l
 RT: 13.68 min Scan# 1334
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.6	51.8	155.4
157	121.7	67.3	201.8





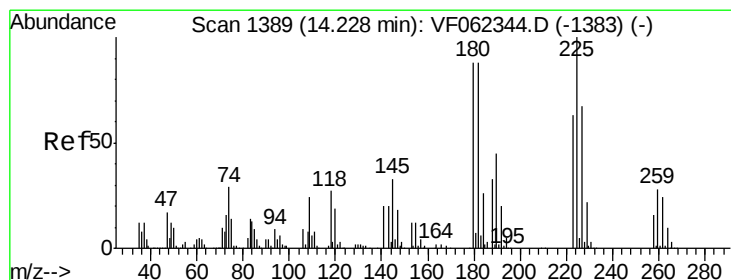
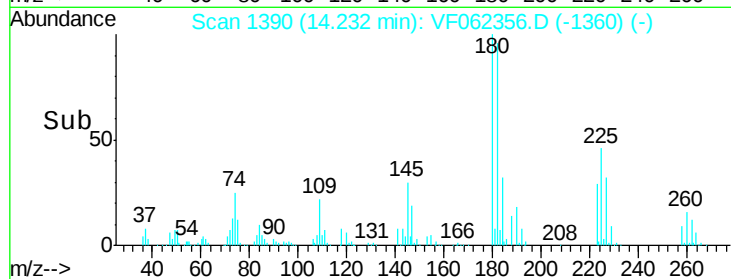
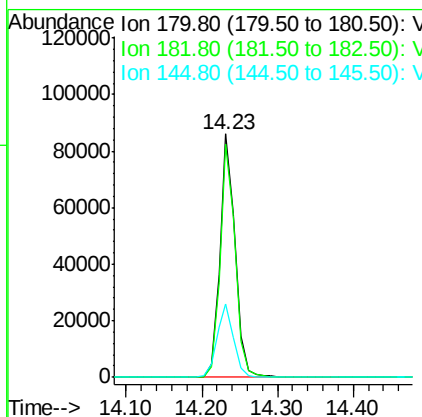
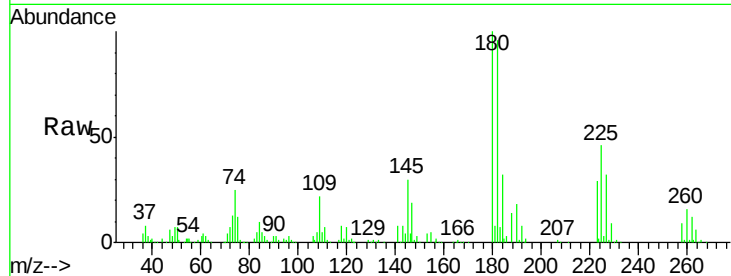
#93
 1,2,4-Trichlorobenzene
 Concen: 25.397 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0507SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	121963		
182	94.6	49.0	147.0	
145	32.9	16.7	50.1	

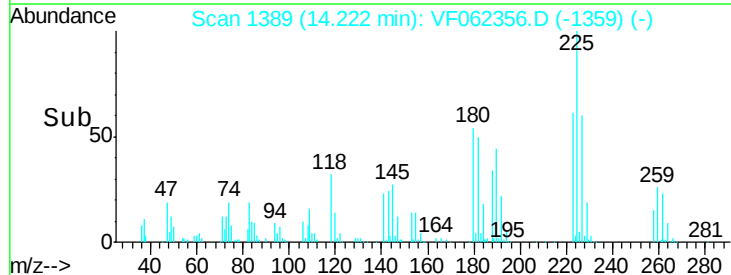
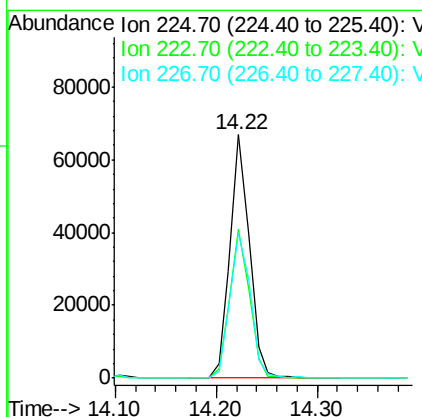
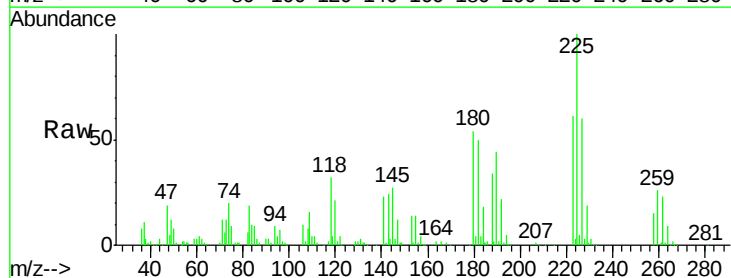
Manual Integrations
 APPROVED

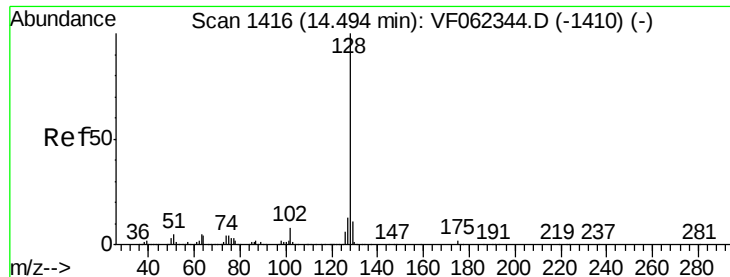
MMDadoda
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#94
 Hexachlorobutadiene
 Concen: 25.085 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VF062356.D
 Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	89785		
223	61.4	31.9	95.5	
227	62.4	33.1	99.5	





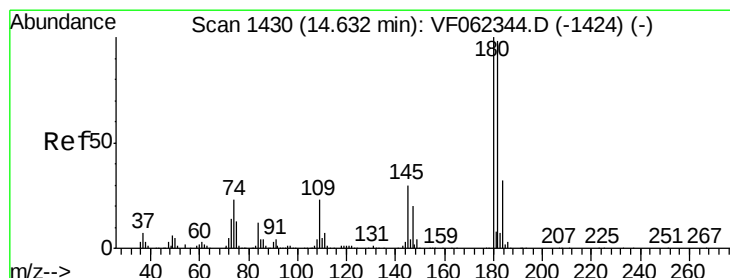
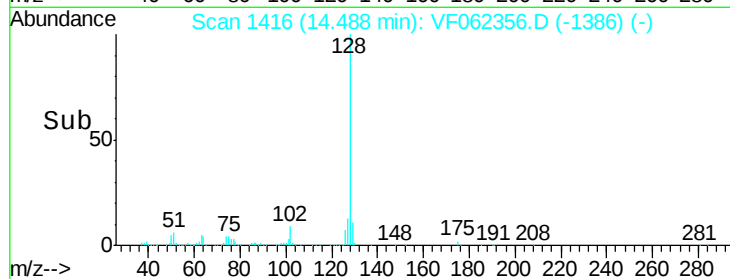
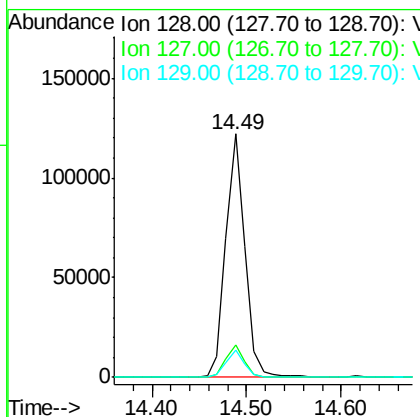
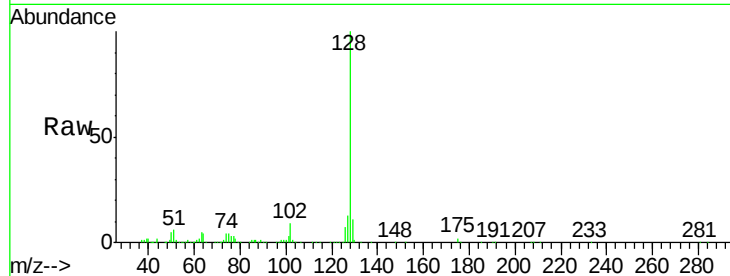
#95
Naphthalene
Concen: 23.642 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.01 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Instrument :
MSVOA_F
ClientSampleId :
VF0507SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.7	8.6	12.8

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 25.201 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VF062356.D
Acq: 7 May 2019 14:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.5	49.4	148.0
145	29.1	14.8	44.3

