

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062185.D
 Acq On : 16 Apr 2019 19:39
 Operator : FY/SY
 Sample : VF0416SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 11:49:31 AM

Quant Time: Apr 17 08:36:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:56:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	400826	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	620129	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	498443	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	271967	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	190397	52.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.50%	
35) Dibromofluoromethane	4.31	113	249742	51.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.10%	
50) Toluene-d8	7.71	98	667605	46.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.40%	
62) 4-Bromofluorobenzene	11.49	95	279495	49.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.02%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	142701	24.265	ug/l	98
3) Chloromethane	1.14	50	145057	22.919	ug/l	97
4) Vinyl Chloride	1.19	62	131797	23.802	ug/l	99
5) Bromomethane	1.36	94	66204	18.592	ug/l	98
6) Chloroethane	1.43	64	49991	19.068	ug/l	98
7) Trichlorofluoromethane	1.55	101	150588	22.738	ug/l	99
8) Diethyl Ether	1.71	74	34170	25.559	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.89	101	106173	24.546	ug/l	94
10) Methyl Iodide	1.97	142	196980	24.464	ug/l	98
11) Tert butyl alcohol	2.69	59	23672	118.318	ug/l	98
12) 1,1-Dichloroethene	1.86	96	100248	22.788	ug/l	97
13) Acrolein	2.10	56	17536	111.269	ug/l #	80
14) Allyl chloride	2.20	41	172850	26.095	ug/l	98
15) Acrylonitrile	3.09	53	81336	109.410	ug/l	98
16) Acetone	2.35	43	85881	105.529	ug/l	96
17) Carbon Disulfide	1.91	76	295285	23.696	ug/l	98
18) Methyl Acetate	2.45	43	44210	22.001	ug/l	92
19) Methyl tert-butyl Ether	2.54	73	177639	24.277	ug/l	98
20) Methylene Chloride	2.29	84	123918	29.545	ug/l	97
21) trans-1,2-Dichloroethene	2.42	96	98144	23.318	ug/l	97
22) Diisopropyl ether	2.94	45	307542	24.978	ug/l	98
23) Vinyl Acetate	3.34	43	695471	113.237	ug/l	99
24) 1,1-Dichloroethane	3.01	63	170484	24.864	ug/l	99
25) 2-Butanone	4.52	43	182241	104.247	ug/l	99
26) 2,2-Dichloropropane	3.78	77	90849	25.191	ug/l	96
27) cis-1,2-Dichloroethene	3.65	96	127209	22.769	ug/l	97
28) Bromochloromethane	3.90	49	70345	21.425	ug/l	92
29) Tetrahydrofuran	4.27	42	84387	108.532	ug/l	97
30) Chloroform	4.05	83	200436	23.513	ug/l	97
31) Cyclohexane	3.88	56	193436	21.837	ug/l	98
32) 1,1,1-Trichloroethane	4.29	97	156664	26.952	ug/l	99
36) 1,1-Dichloropropene	4.48	75	155867	22.622	ug/l	99
37) Ethyl Acetate	4.30	43	67878	21.380	ug/l #	80
38) Carbon Tetrachloride	4.19	117	141297m	23.826	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	196597	22.769	ug/l	98
40) Benzene	4.82	78	408137	22.425	ug/l	98
41) Methacrylonitrile	4.93	41	40641	21.305	ug/l	96
42) 1,2-Dichloroethane	5.13	62	99930	21.694	ug/l	99
43) Isopropyl Acetate	7.12	43	75756	20.653	ug/l #	96
44) Trichloroethene	5.69	130	107788	22.127	ug/l	94
45) 1,2-Dichloropropane	6.41	63	97502	21.837	ug/l	99
46) Dibromomethane	6.26	93	58455	21.711	ug/l	94
47) Bromodichloromethane	6.56	83	133653	21.912	ug/l	97
48) Methyl methacrylate	6.88	41	53516	22.283	ug/l	95
49) 1,4-Dioxane	6.88	88	9331	498.584	ug/l #	87
51) 4-Methyl-2-Pentanone	8.40	43	281916	99.738	ug/l	98
52) Toluene	7.78	92	221171	20.686	ug/l	90
53) t-1,3-Dichloropropene	8.43	75	105432	19.955	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	141829	21.111	ug/l	99
55) 1,1,2-Trichloroethane	8.64	97	61431	20.061	ug/l	93
56) Ethyl methacrylate	8.75	69	75759	20.806	ug/l	97
57) 1,3-Dichloropropane	9.00	76	101016	20.066	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.45	63	88599	94.437	ug/l	98
59) 2-Hexanone	9.62	43	192091	106.931	ug/l	94
60) Dibromochloromethane	8.86	129	81372	19.313	ug/l	98
61) 1,2-Dibromoethane	9.13	107	69368	21.174	ug/l	92
64) Tetrachloroethene	8.31	164	89636	22.018	ug/l	96
65) Chlorobenzene	9.94	112	227866	21.976	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.06	131	102593	23.966	ug/l	98
67) Ethyl Benzene	10.03	91	433236	22.540	ug/l	98
68) m/p-Xylenes	10.26	106	322931	45.641	ug/l	95
69) o-Xylene	10.81	106	176508	23.041	ug/l	91
70) Styrene	10.89	104	253067	22.716	ug/l	99
71) Bromoform	10.88	173	53288	23.770	ug/l #	94
73) Isopropylbenzene	11.22	105	506407	21.614	ug/l	99
74) N-amyl acetate	11.44	43	124517	20.740	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.77	83	85339	20.447	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	57422	20.287	ug/l	97
77) Bromobenzene	11.58	156	103256	21.191	ug/l	84
78) n-propylbenzene	11.67	91	568976	21.364	ug/l	94
79) 2-Chlorotoluene	11.80	91	336052	21.407	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	418459	21.414	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	29695m	20.976	ug/l	
82) 4-Chlorotoluene	11.98	91	328916	21.380	ug/l	98
83) tert-Butylbenzene	12.19	119	431610	22.243	ug/l	96
84) 1,2,4-Trimethylbenzene	12.27	105	406908	21.456	ug/l	95
85) sec-Butylbenzene	12.37	105	564907	22.140	ug/l	98
86) p-Isopropyltoluene	12.52	119	477872	21.984	ug/l	98
87) 1,3-Dichlorobenzene	12.54	146	198767	22.296	ug/l	98
88) 1,4-Dichlorobenzene	12.63	146	189235	21.771	ug/l	97
89) n-Butylbenzene	12.89	91	482493	20.982	ug/l	94
90) Hexachloroethane	12.97	117	116388	21.859	ug/l	90
91) 1,2-Dichlorobenzene	13.00	146	186431	21.791	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.69	75	16301	21.685	ug/l	82

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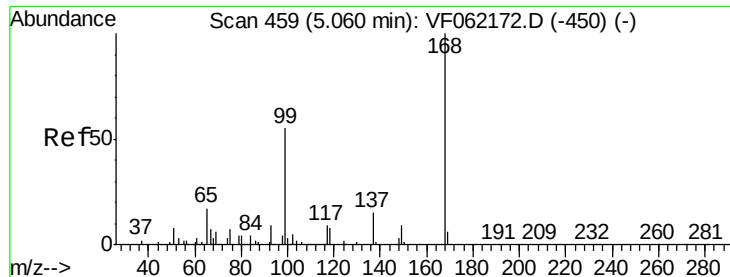
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	148610	23.128	µg/l	96
94) Hexachlorobutadiene	14.22	225	100542	24.010	µg/l	97
95) Naphthalene	14.49	128	242254	21.580	µg/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	136876	22.864	µg/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:168 Resp: 400826

Ion Ratio Lower Upper

168 100

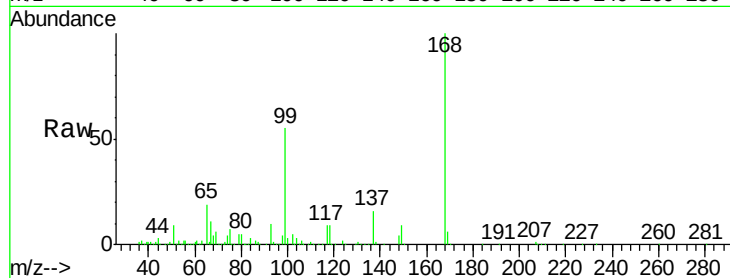
99 54.6 44.2 66.4

Manual Integrations

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4/17/2019 11:49:31 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

150000

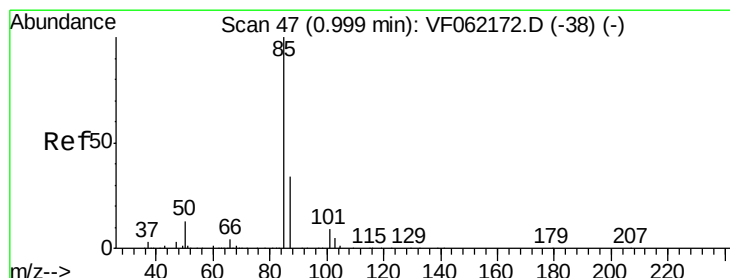
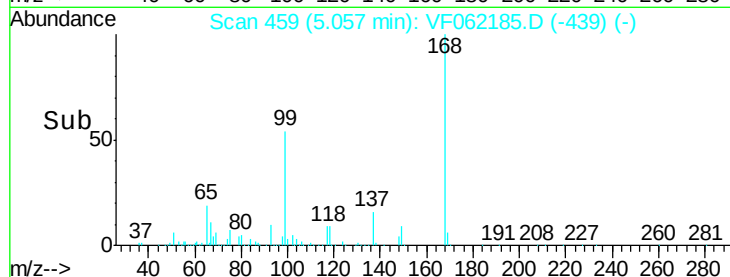
100000

50000

0

4.90 5.00 5.10 5.20 5.30

Time-->



#2

Dichlorodifluoromethane

Concen: 24.265 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062185.D

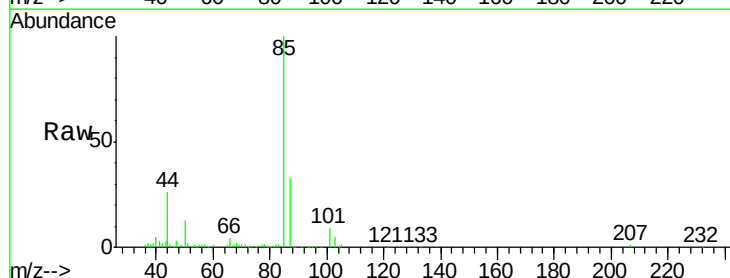
Acq: 16 Apr 2019 19:39

Tgt Ion: 85 Resp: 142701

Ion Ratio Lower Upper

85 100

87 32.7 16.9 50.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

40000

30000

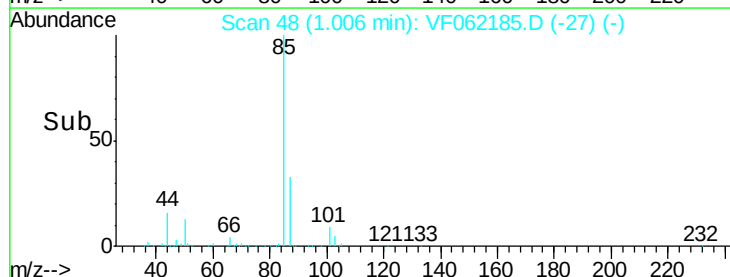
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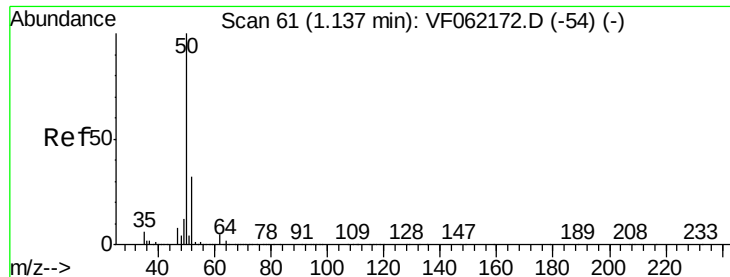
10000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 22.919 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 50 Resp: 145057

Ion Ratio Lower Upper

50 100

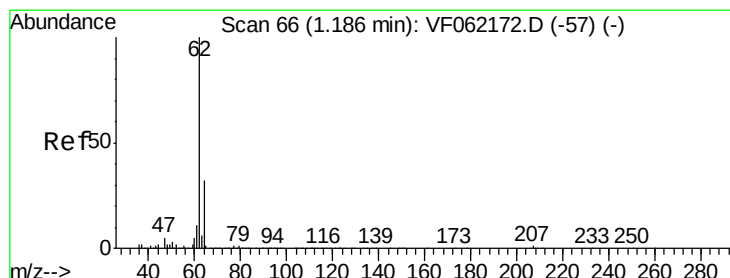
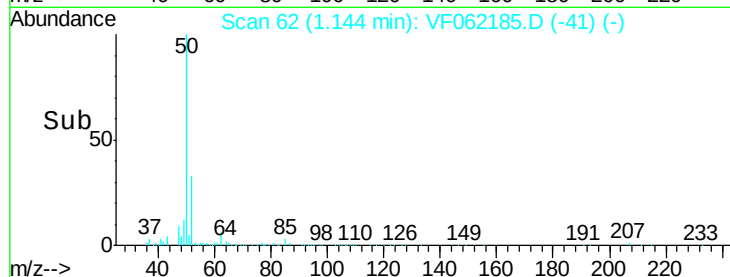
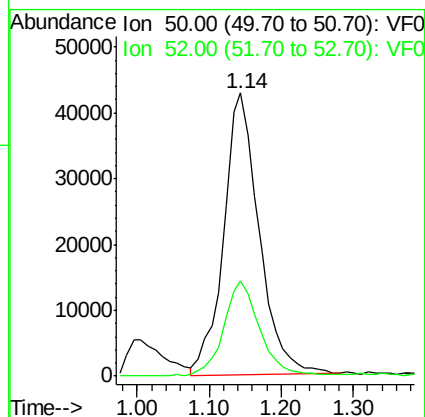
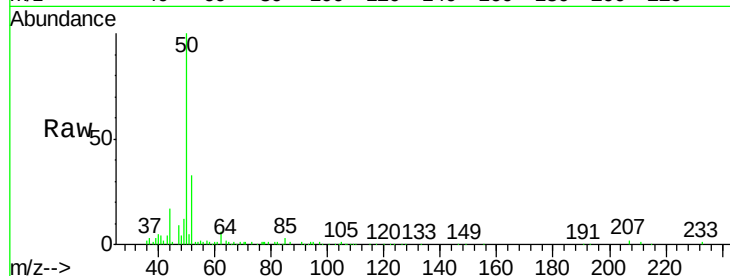
52 33.4 25.4 38.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 23.802 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062185.D

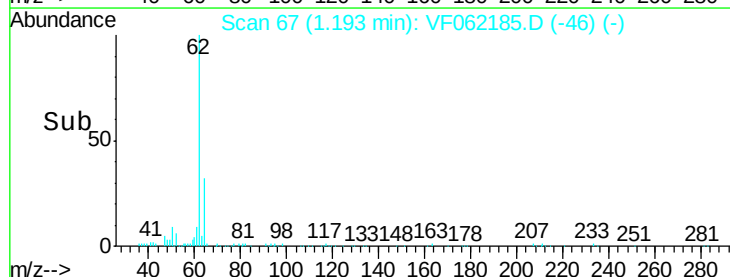
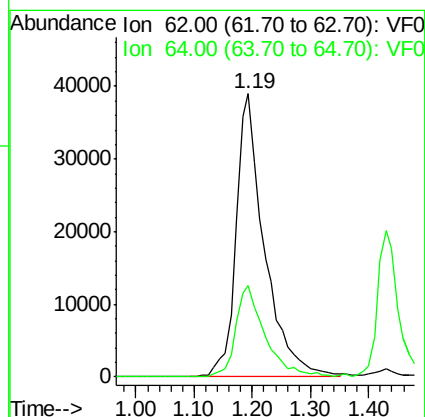
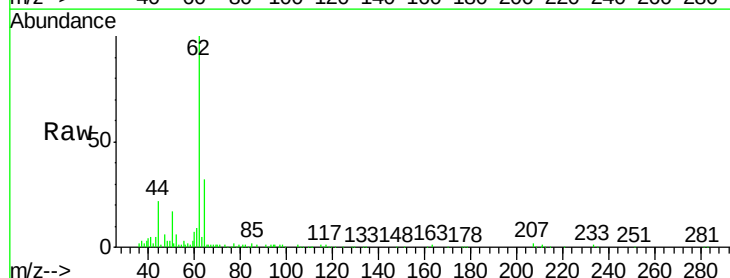
Acq: 16 Apr 2019 19:39

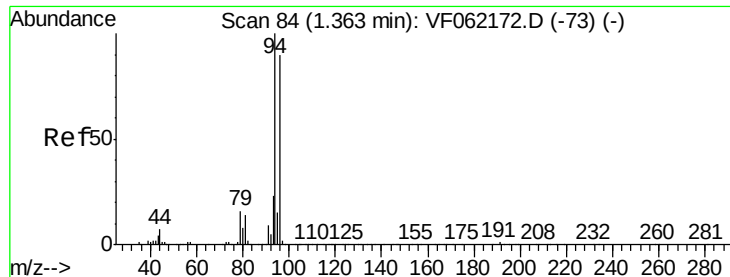
Tgt Ion: 62 Resp: 131797

Ion Ratio Lower Upper

62 100

64 32.1 25.4 38.0





#5

Bromomethane

Concen: 18.592 ug/l

RT: 1.36 min Scan# 84

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

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ClientSampleId :

VF0416SBS01

Tot Ion: 94 Resp: 66204

Ion Ratio Lower Upper

94 100

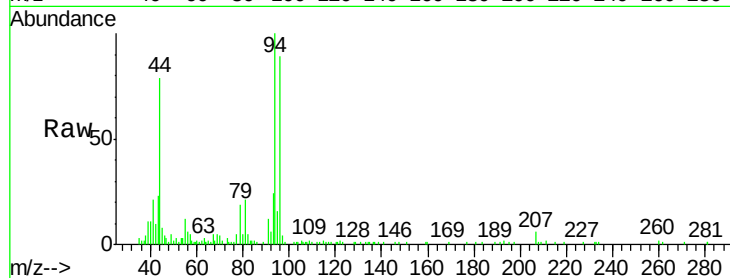
96 88.6 72.3 108.5

Manual Integrations

APPROVED

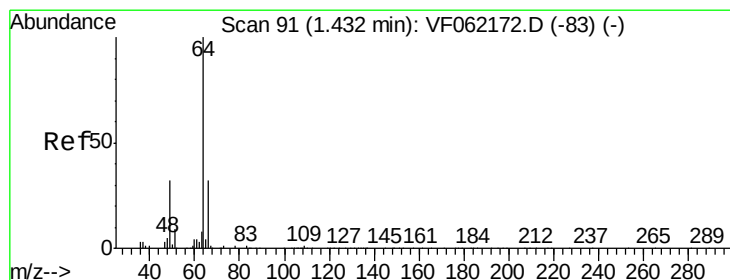
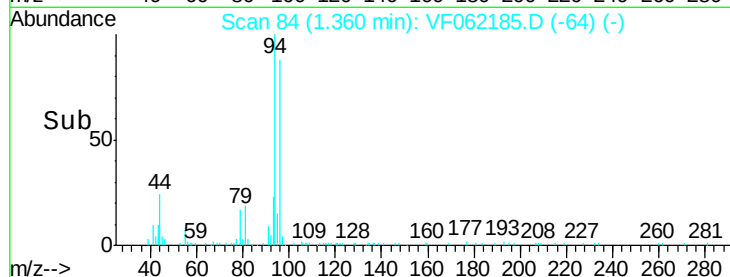
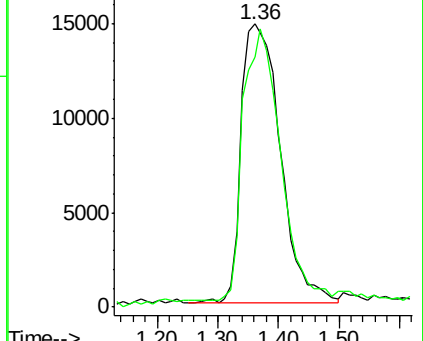
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 19.068 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.00 min

Lab File: VF062185.D

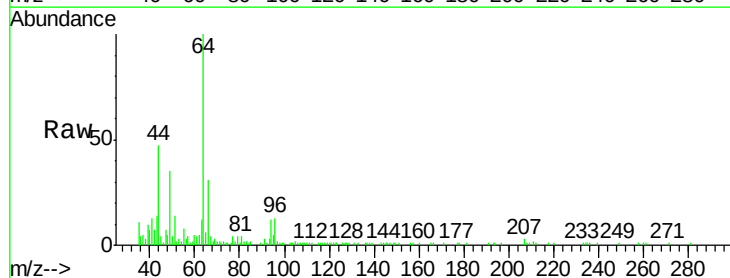
Acq: 16 Apr 2019 19:39

Tgt Ion: 64 Resp: 49991

Ion Ratio Lower Upper

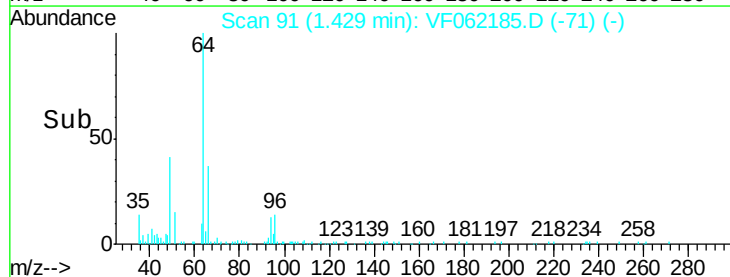
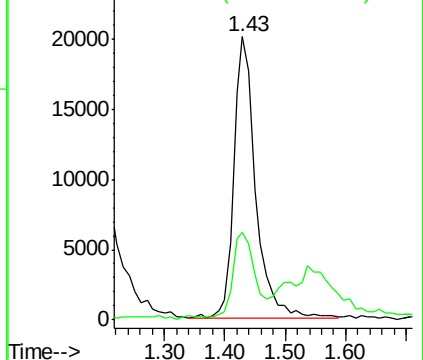
64 100

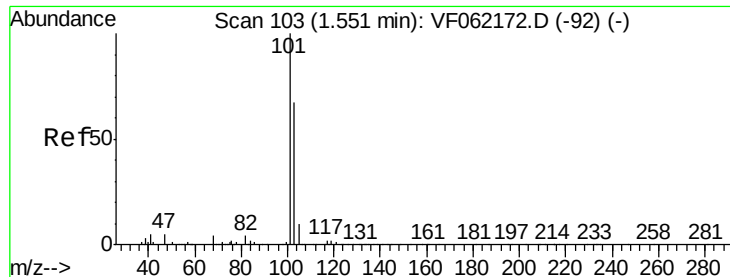
66 31.0 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

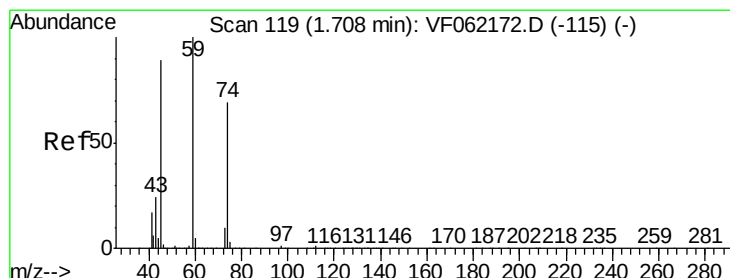
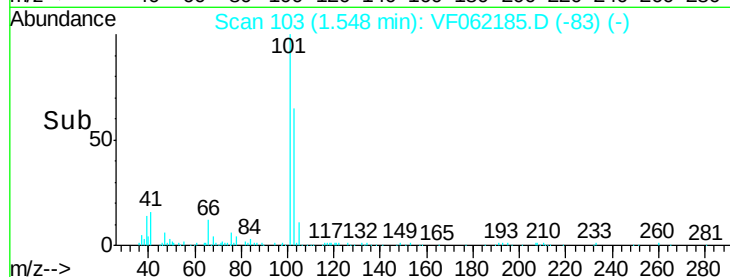
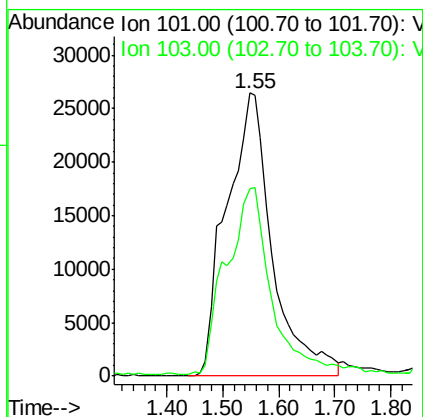
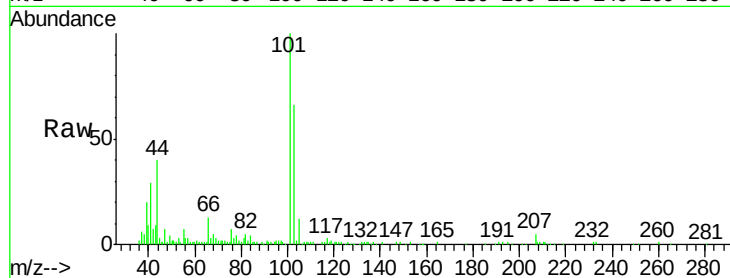
Trichlorofluoromethane
Concen: 22.738 ug/l
RT: 1.55 min Scan# 103
Delta R.T. -0.00 min
Lab File: VF062185.D
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VF0416SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.3	53.7	80.5

Manual Integrations
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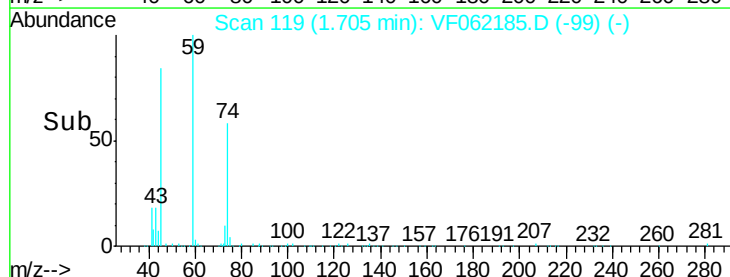
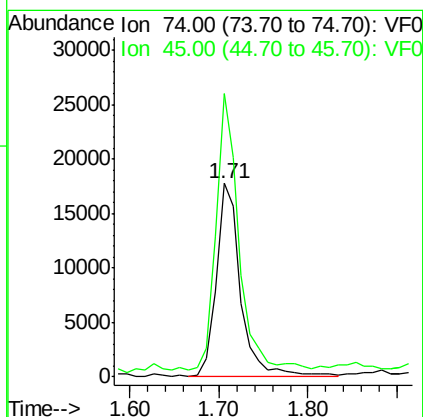
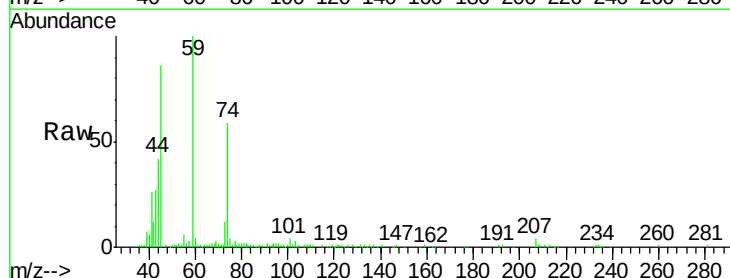
MMDadoda
4/17/2019 11:49:31 AM

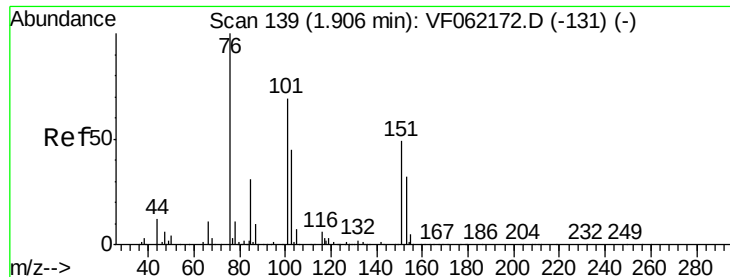


#8

Diethyl Ether
Concen: 25.559 ug/l
RT: 1.71 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
74	100		
45	146.5	64.7	194.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.546 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

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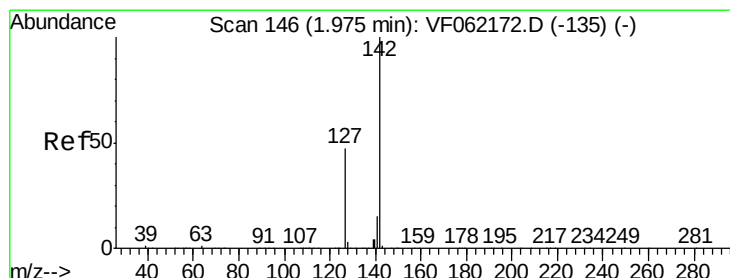
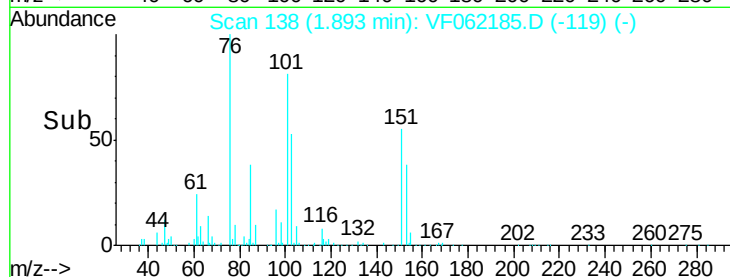
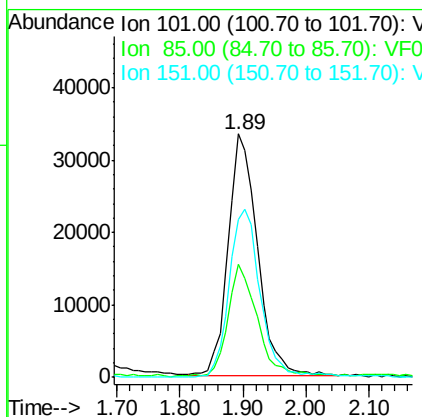
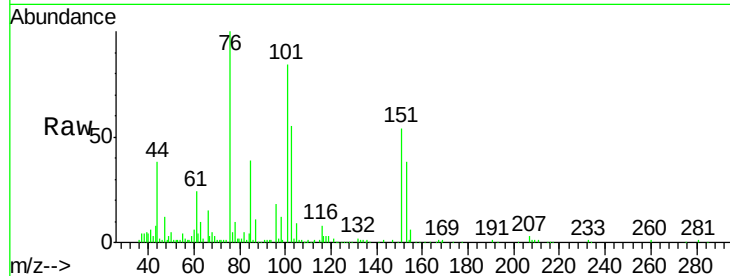
ClientSampleId :

VF0416SBS01

Tot Ion:	101	Resp:	106173
Ion Ratio	Lower	Upper	
101	100		
85	46.6	35.2	52.8
151	64.8	56.6	85.0

Manual Integrations
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4/17/2019 11:49:31 AM



#10

Methyl Iodide

Concen: 24.464 ug/l

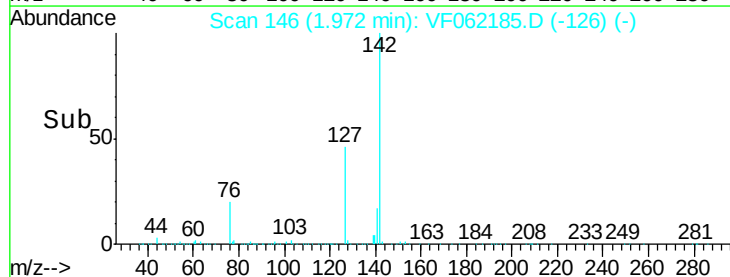
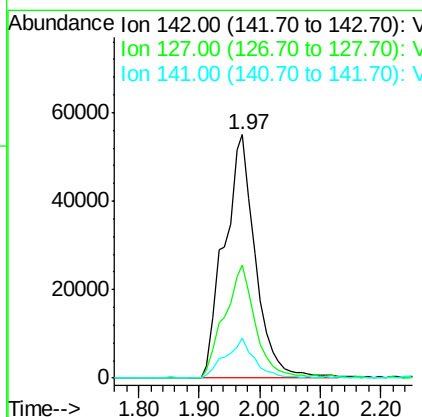
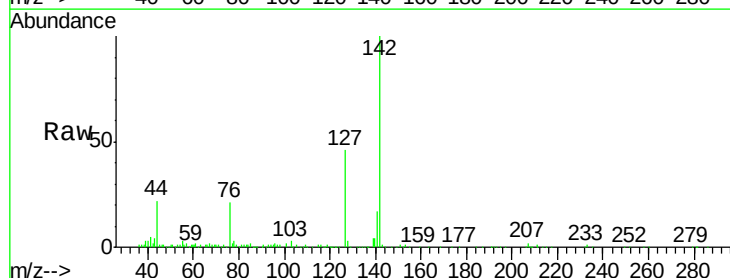
RT: 1.97 min Scan# 146

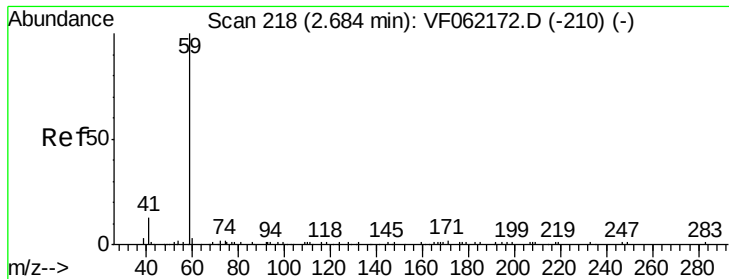
Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	142	Resp:	196980
Ion Ratio	Lower	Upper	
142	100		
127	46.4	37.8	56.6
141	16.6	12.1	18.1





#11

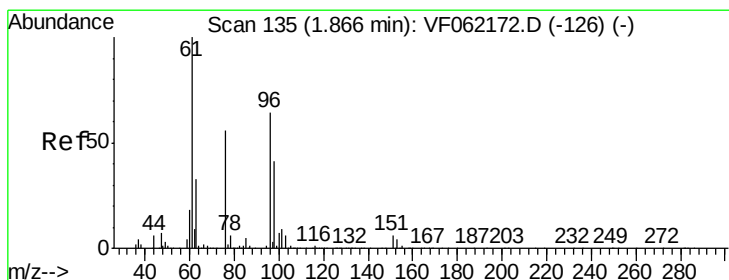
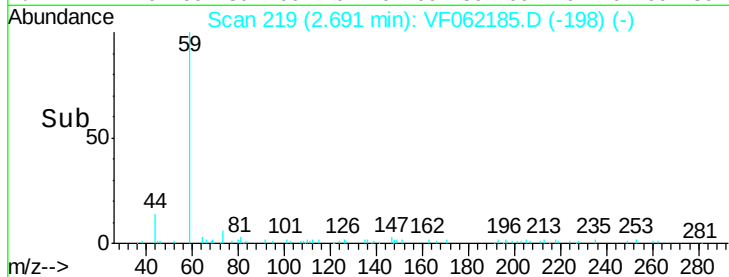
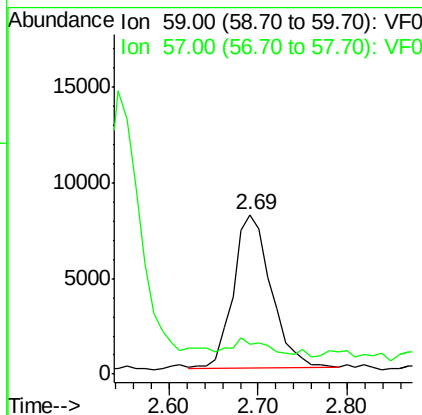
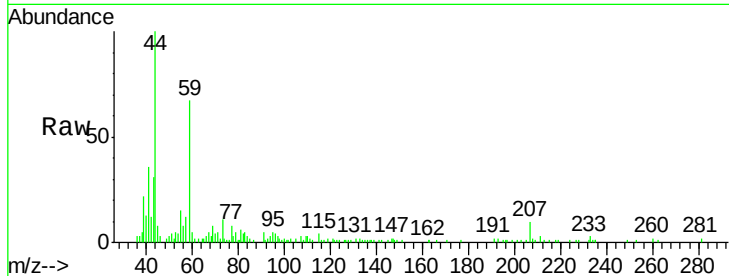
Tert butyl alcohol
Concen: 118.318 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion: 59 Resp: 23672
Ion Ratio Lower Upper
59 100
57 18.7 14.2 21.4

Manual Integrations
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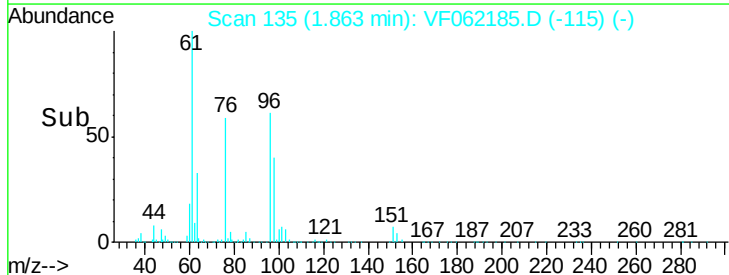
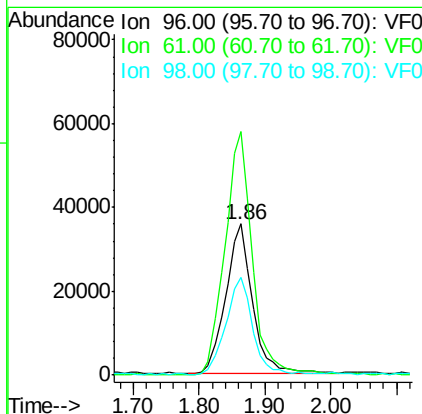
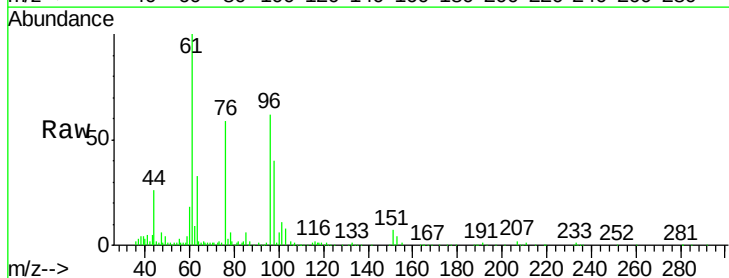
MMDadoda
4/17/2019 11:49:31 AM

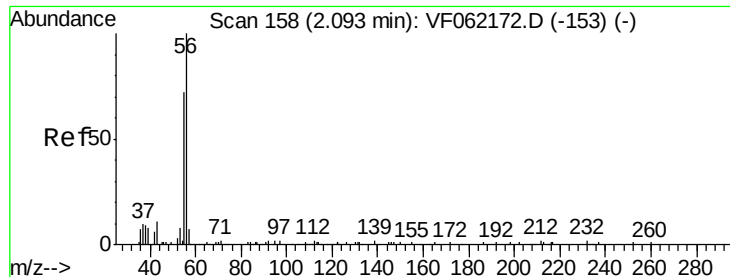


#12

1,1-Dichloroethene
Concen: 22.788 ug/l
RT: 1.86 min Scan# 135
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion: 96 Resp: 100248
Ion Ratio Lower Upper
96 100
61 160.8 124.6 187.0
98 64.1 51.5 77.3





#13

Acrolein

Concen: 111.269 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 56 Resp: 17536

Ion Ratio Lower Upper

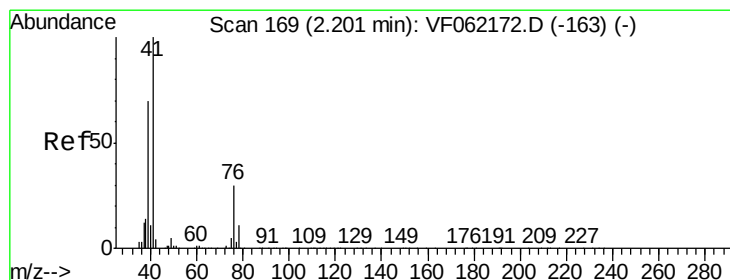
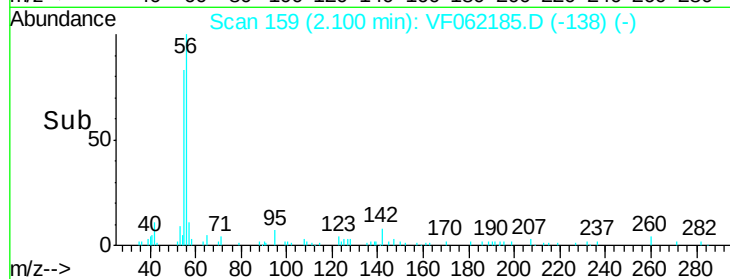
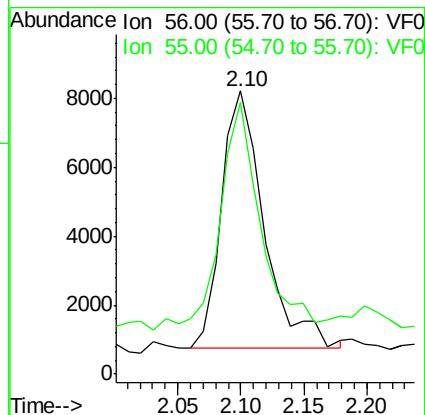
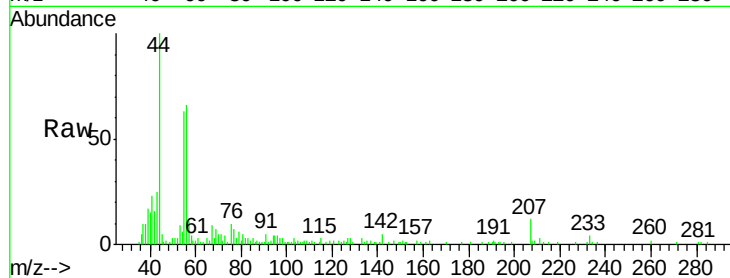
56 100

55 96.0 62.9 94.3#

Manual Integrations
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#14

Allyl chloride

Concen: 26.095 ug/l

RT: 2.20 min Scan# 169

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

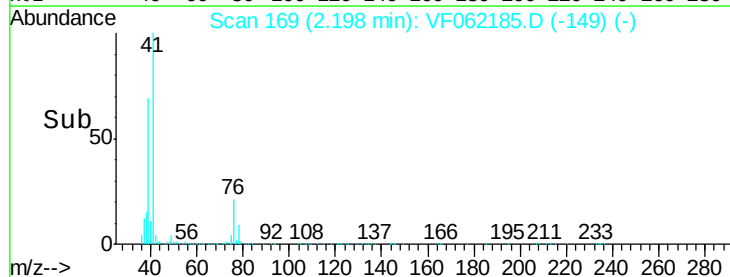
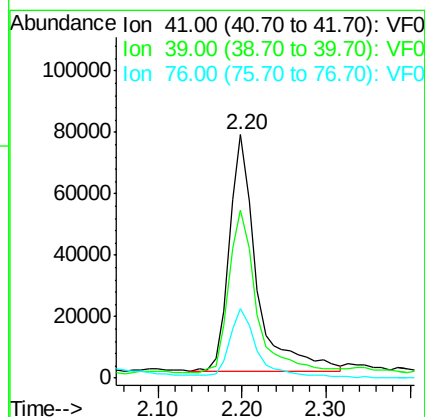
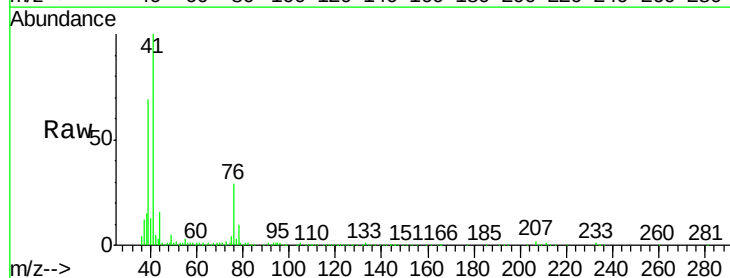
Tgt Ion: 41 Resp: 172850

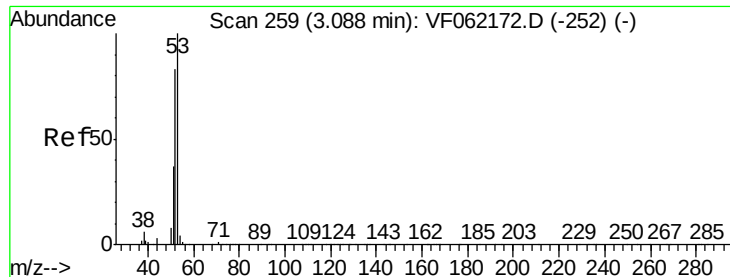
Ion Ratio Lower Upper

41 100

39 69.2 56.1 84.1

76 28.7 24.9 37.3





#15

Acrylonitrile

Concen: 109.410 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

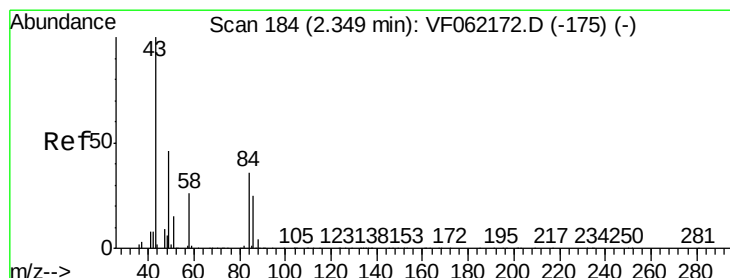
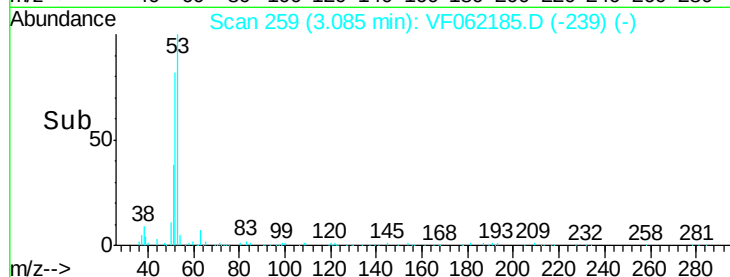
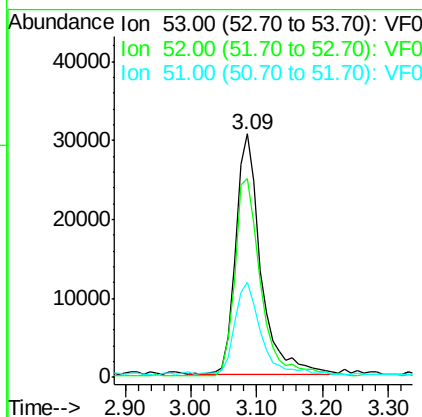
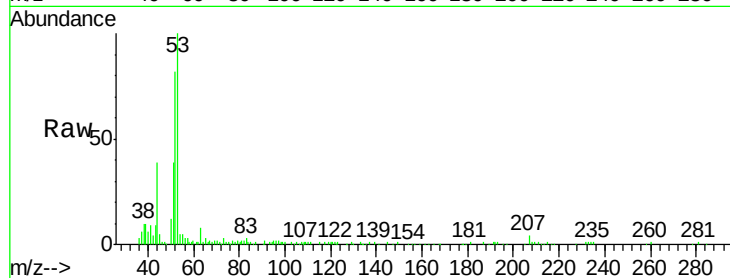
ClientSampleId :

VF0416SBS01

Tot Ion:	53	Resp:	81336
Ion Ratio	Lower	Upper	
53	100		
52	81.5	66.6	99.8
51	39.0	30.1	45.1

Manual Integrations
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#16

Acetone

Concen: 105.529 ug/l

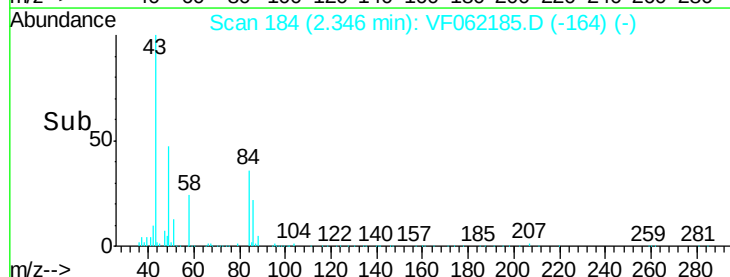
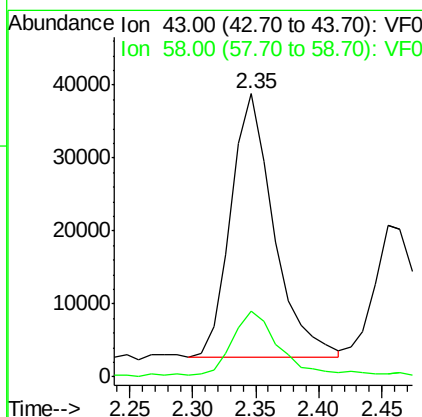
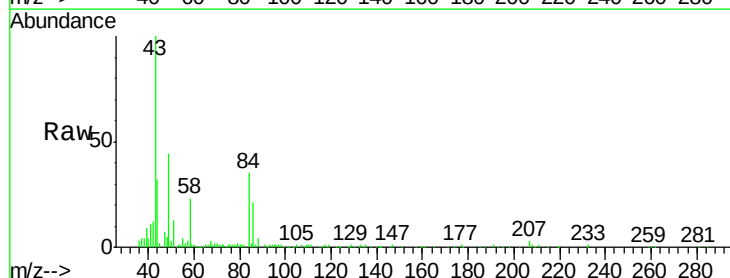
RT: 2.35 min Scan# 184

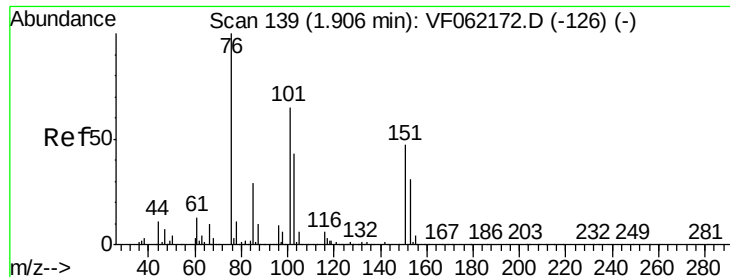
Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	43	Resp:	85881
Ion Ratio	Lower	Upper	
43	100		
58	23.2	20.2	30.2





#17

Carbon Disulfide

Concen: 23.696 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 76 Resp: 295285

Ion Ratio Lower Upper

76 100

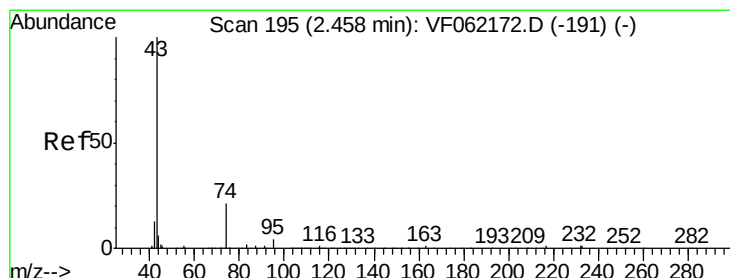
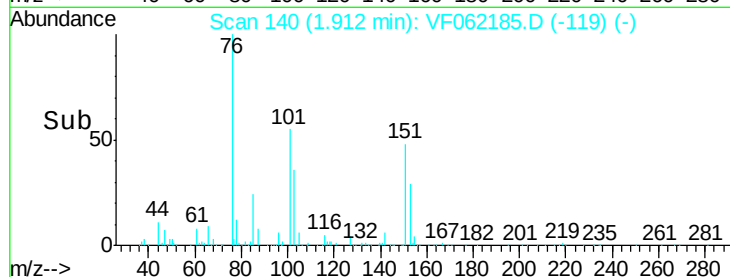
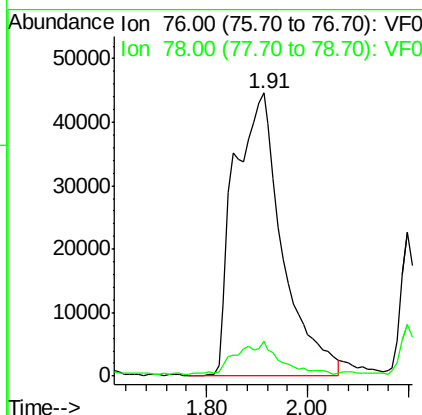
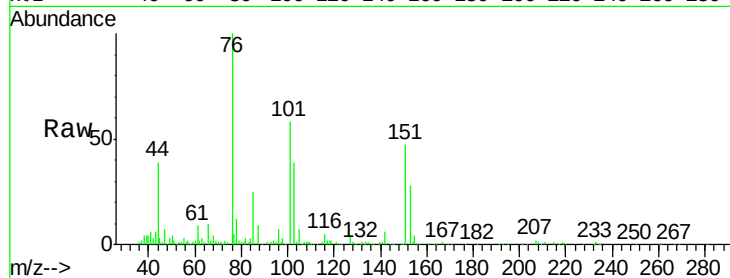
78 12.2 9.1 13.7

Manual Integrations

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#18

Methyl Acetate

Concen: 22.001 ug/l

RT: 2.45 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF062185.D

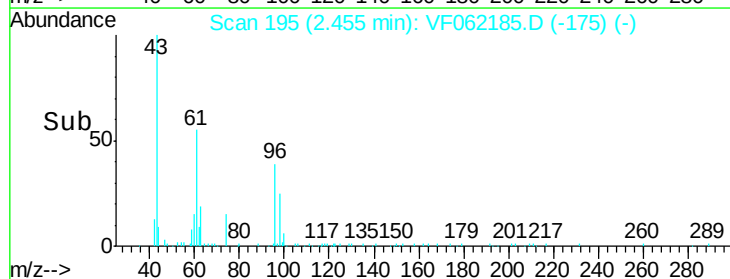
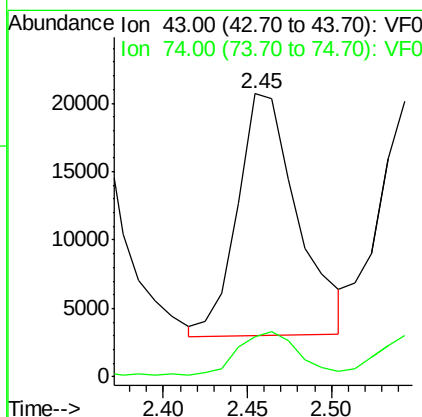
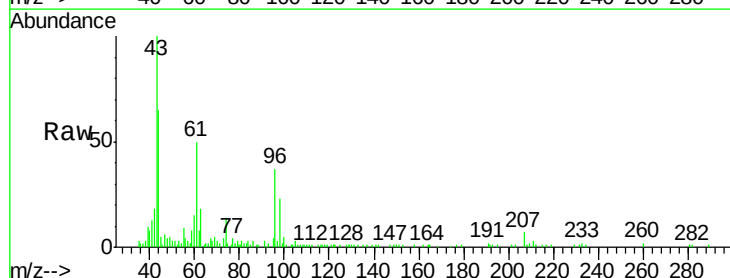
Acq: 16 Apr 2019 19:39

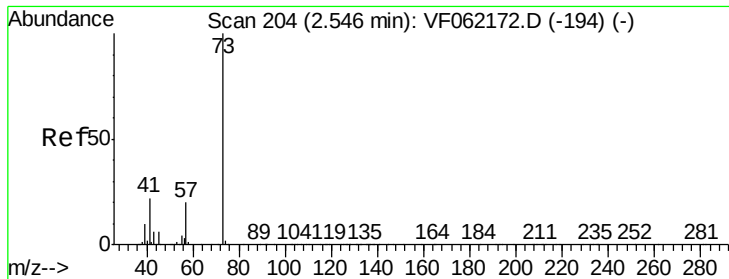
Tgt Ion: 43 Resp: 44210

Ion Ratio Lower Upper

43 100

74 14.4 14.2 21.4





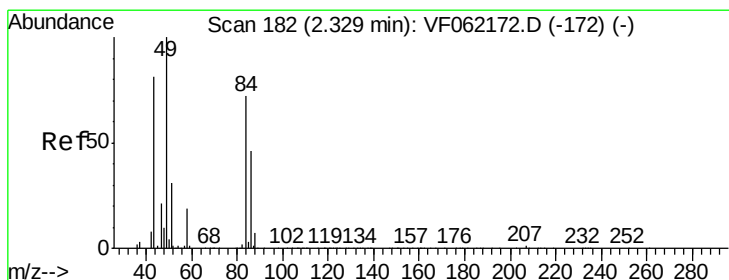
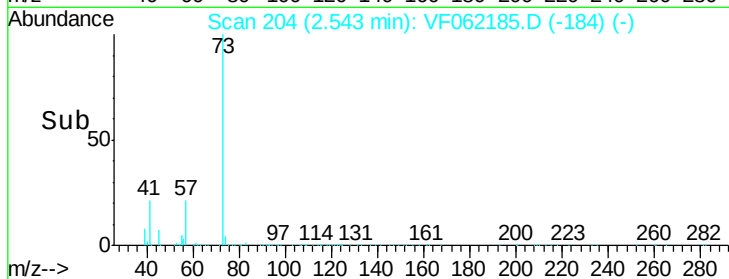
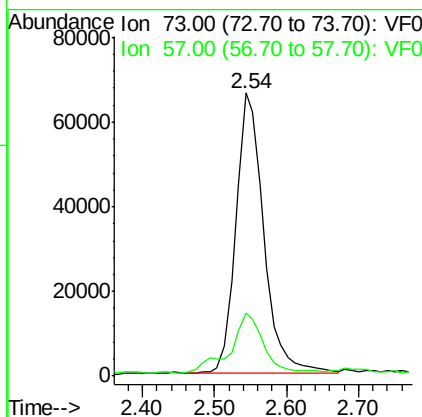
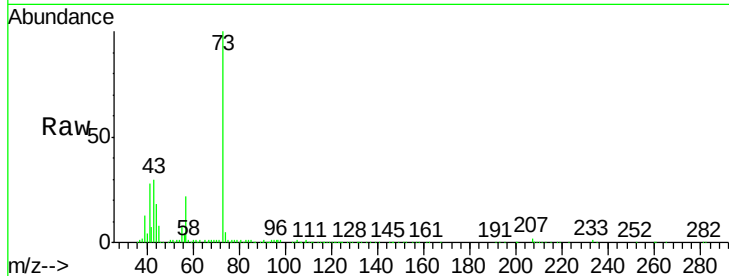
#19
Methyl tert-butyl Ether
Concen: 24.277 ug/l
RT: 2.54 min Scan# 204
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion: 73 Resp: 177639
Ion Ratio Lower Upper
73 100
57 22.2 16.8 25.2

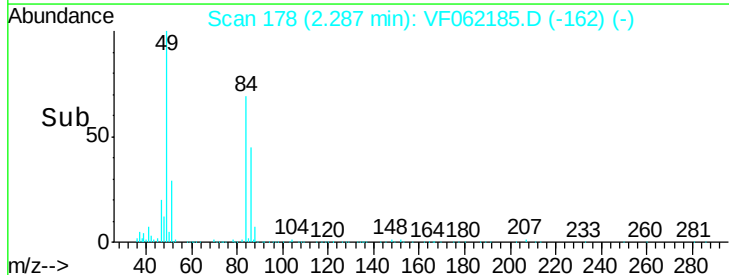
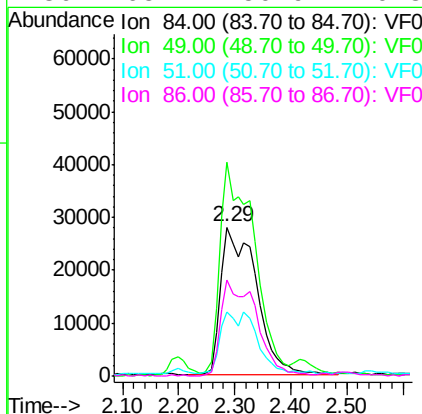
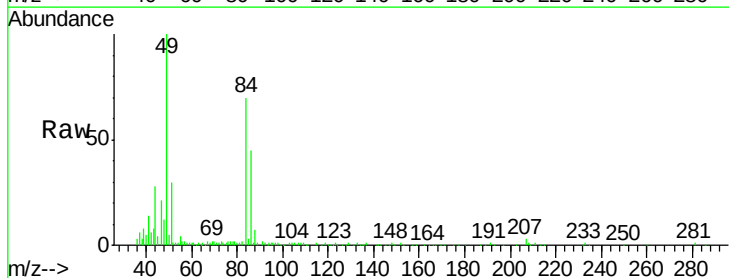
Manual Integrations
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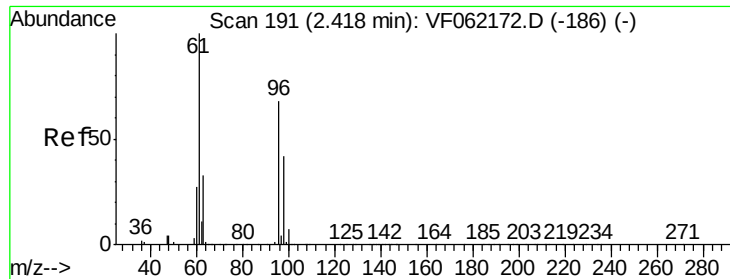
MMDadoda
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#20
Methylene Chloride
Concen: 29.545 ug/l
RT: 2.29 min Scan# 178
Delta R.T. -0.04 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion: 84 Resp: 123918
Ion Ratio Lower Upper
84 100
49 143.8 111.5 167.3
51 43.5 34.9 52.3
86 65.1 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 23.318 ug/l

RT: 2.42 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

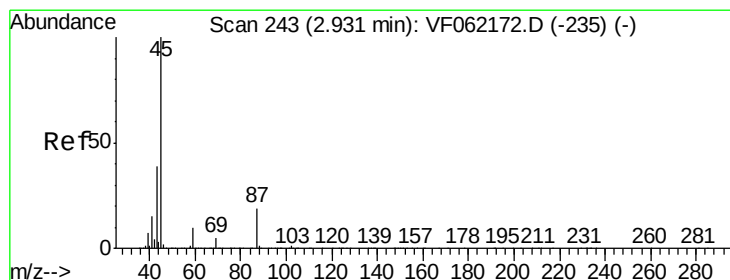
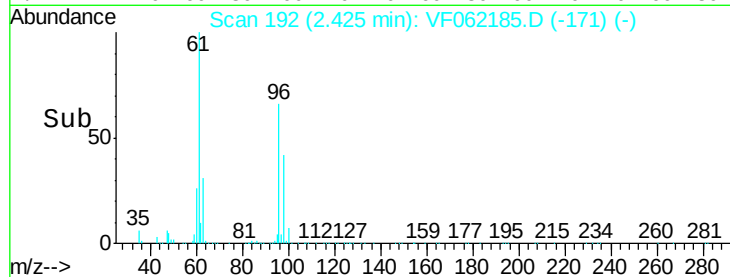
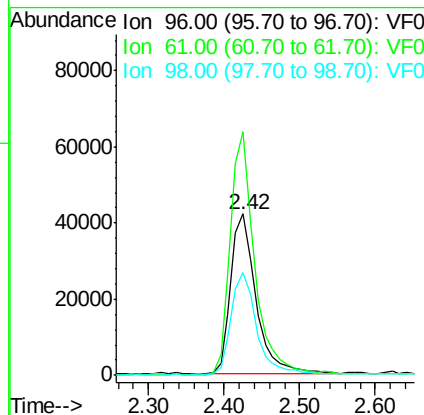
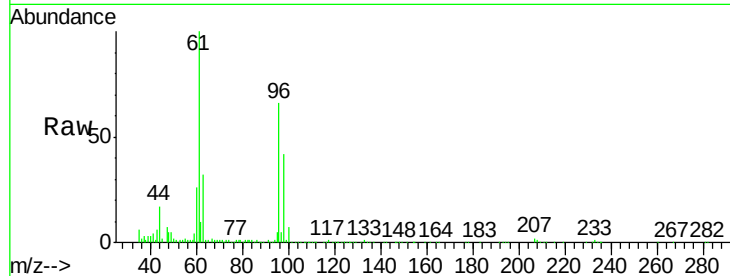
ClientSampleId :

VF0416SBS01

Tot Ion:	96	Resp:	98144
Ion	Ratio	Lower	Upper
96	100		
61	150.7	117.4	176.2
98	64.0	49.8	74.8

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#22

Diisopropyl ether

Concen: 24.978 ug/l

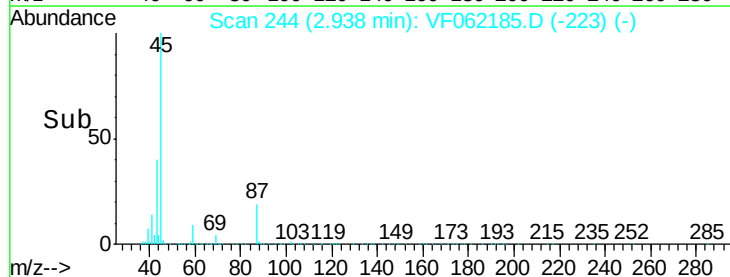
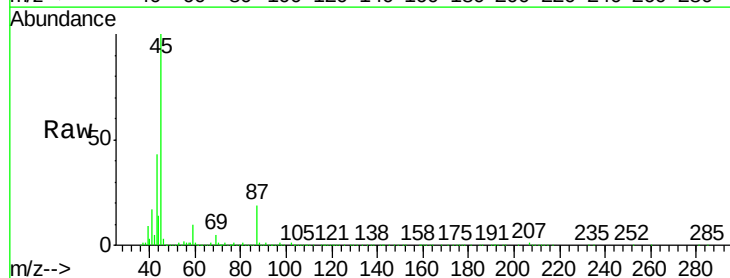
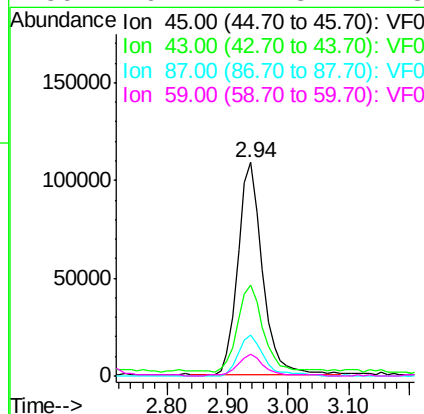
RT: 2.94 min Scan# 244

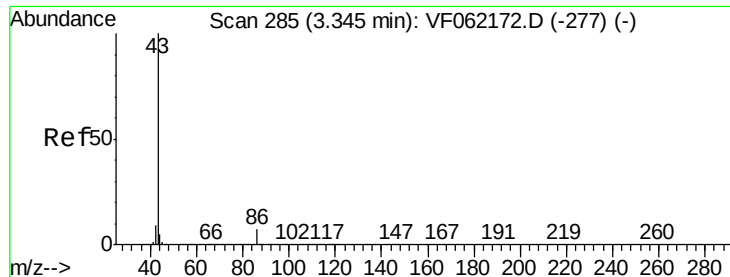
Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	45	Resp:	307542
Ion	Ratio	Lower	Upper
45	100		
43	42.6	32.5	48.7
87	19.1	14.9	22.3
59	10.1	7.8	11.8





#23

Vinyl Acetate

Concen: 113.237 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 695471

Ion Ratio Lower Upper

43 100

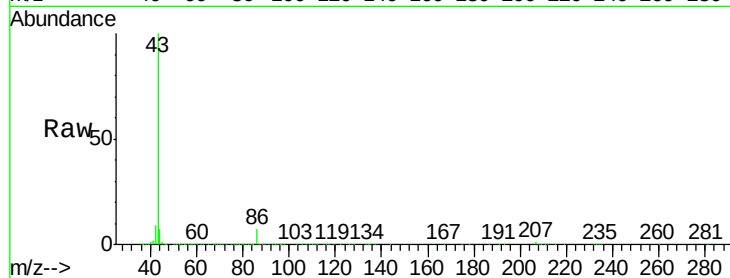
86 7.2 5.9 8.9

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

300000

250000

200000

150000

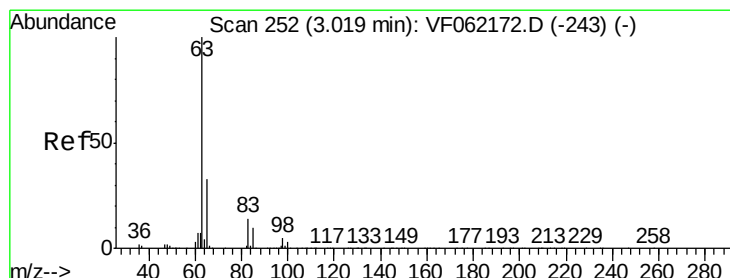
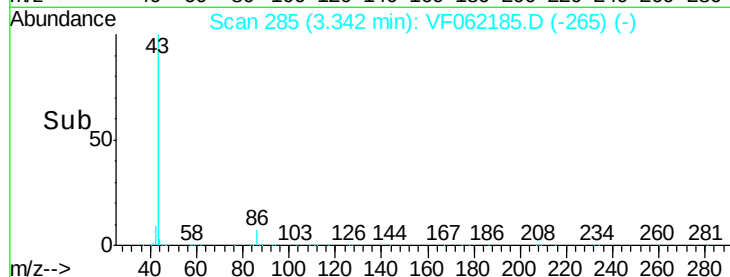
100000

50000

0

3.20 3.30 3.40 3.50

Time-->



#24

1,1-Dichloroethane

Concen: 24.864 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

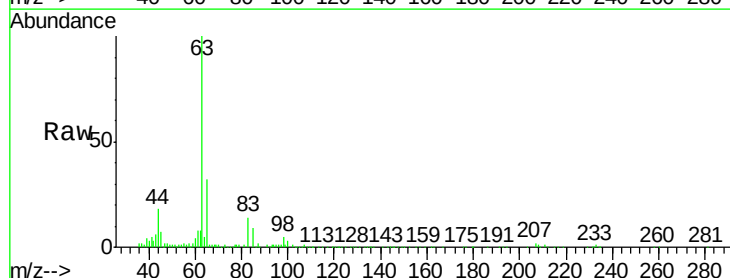
Tgt Ion: 63 Resp: 170484

Ion Ratio Lower Upper

63 100

98 5.4 2.6 8.0

100 3.0 1.7 5.1



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

80000

60000

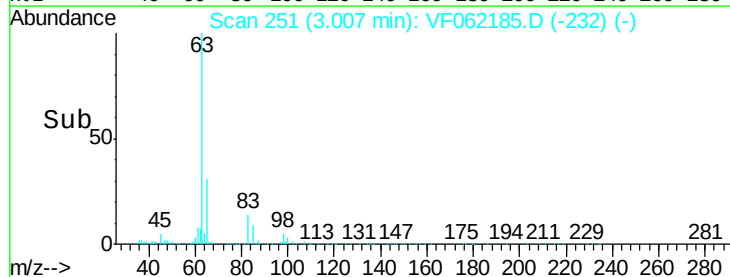
40000

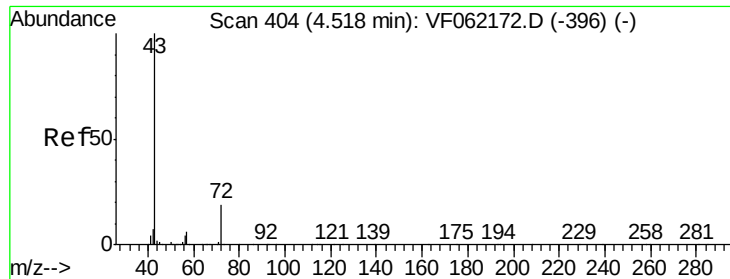
20000

0

2.90 3.00 3.10 3.20

Time-->





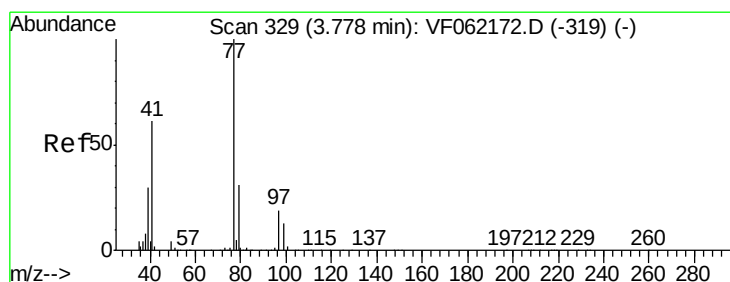
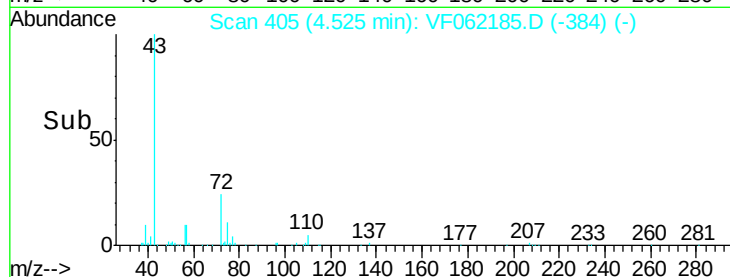
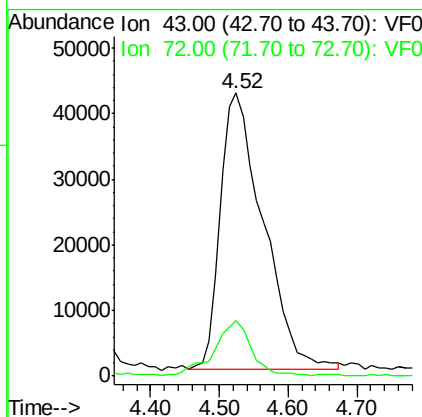
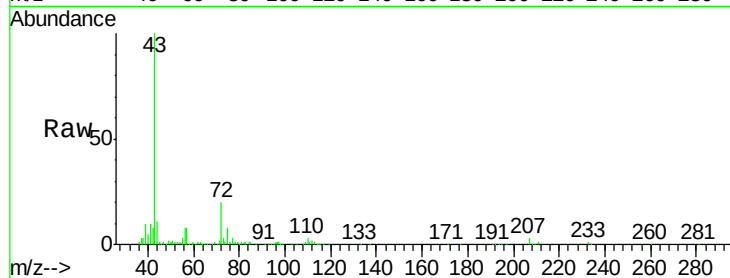
#25
2-Butanone
Concen: 104.247 ug/l
RT: 4.52 min Scan# 405
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
72	19.7	15.4	23.2

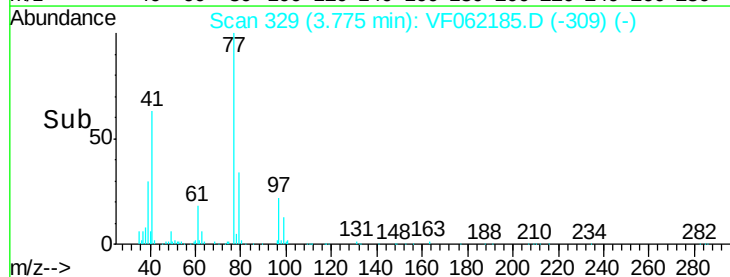
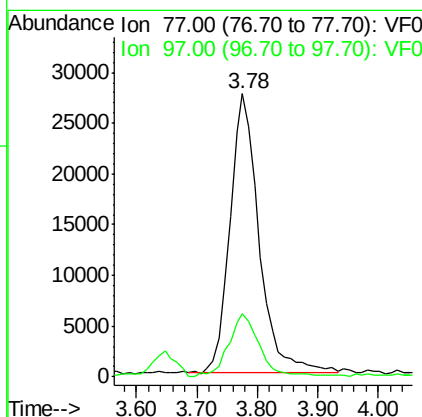
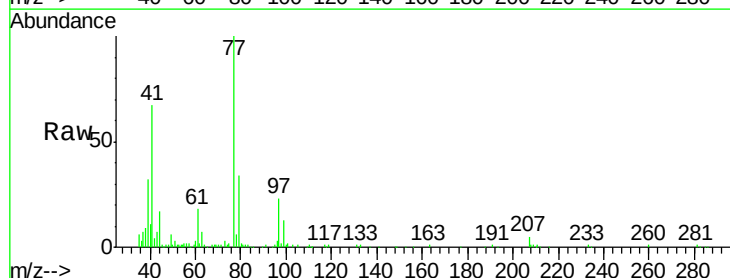
Manual Integrations
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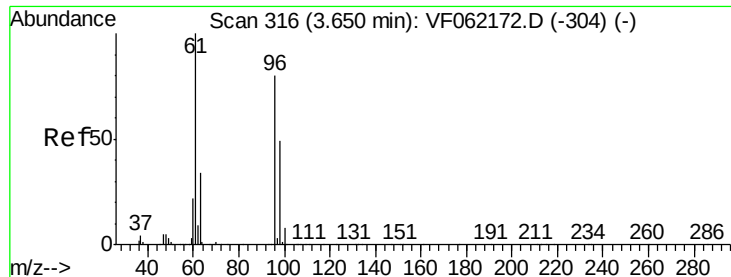
MMDadoda
4/17/2019 11:49:31 AM



#26
2,2-Dichloropropane
Concen: 25.191 ug/l
RT: 3.78 min Scan# 329
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
77	100		
97	22.5	10.3	30.9





#27

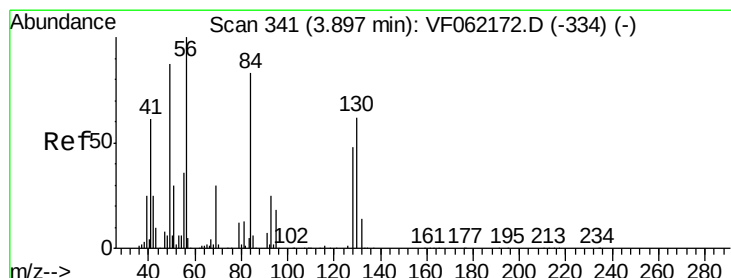
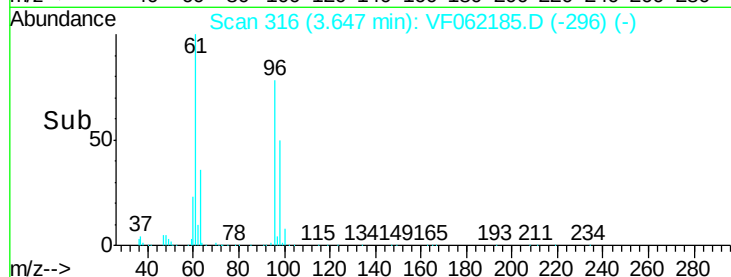
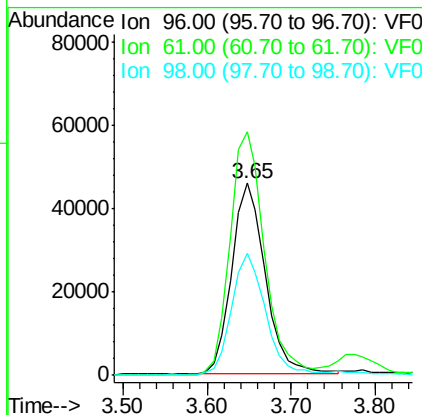
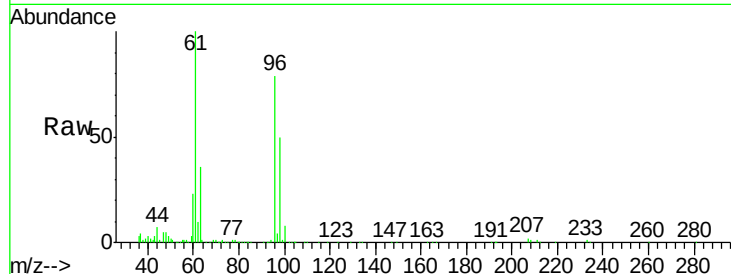
cis-1,2-Dichloroethene
Concen: 22.769 ug/l
RT: 3.65 min Scan# 316
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	127209		
61	126.9		0.0	248.2
98	63.8		0.0	122.4

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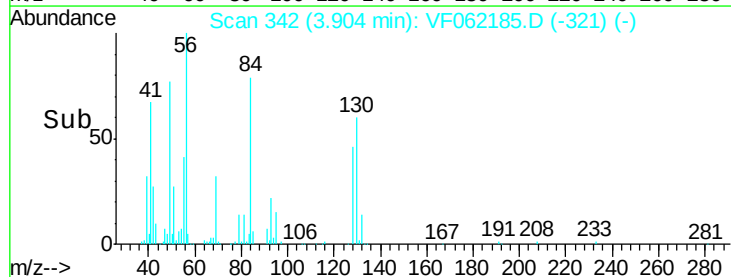
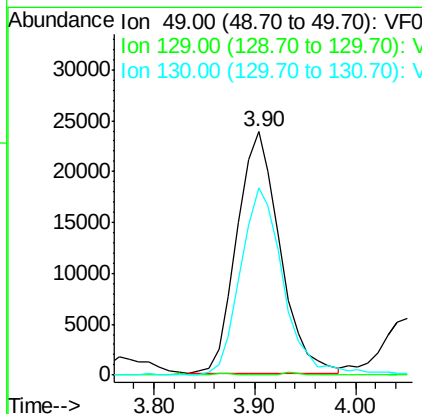
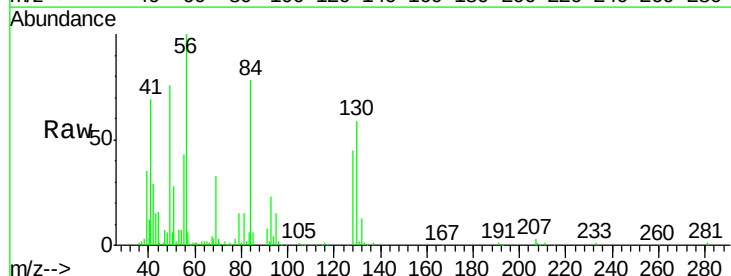
MMDadoda
4/17/2019 11:49:31 AM

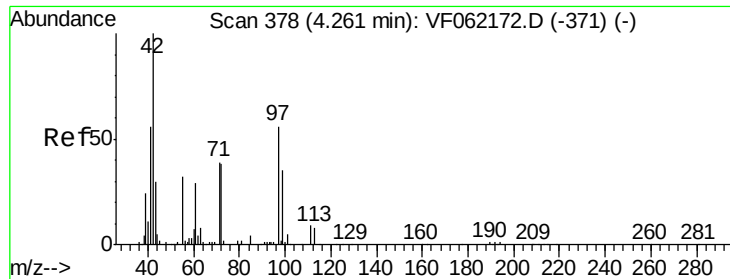


#28

Bromochloromethane
Concen: 21.425 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	70345		
129	0.0		0.0	0.0
130	77.2		56.5	84.7





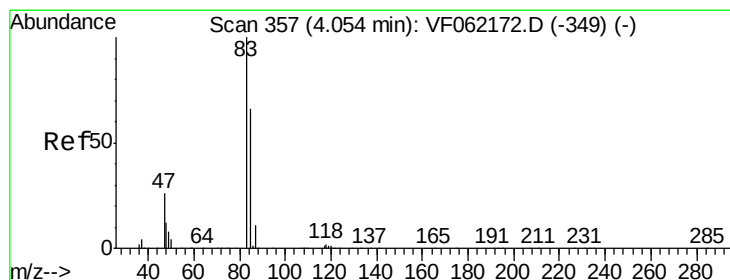
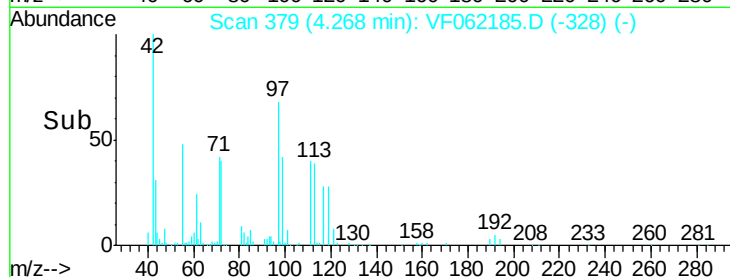
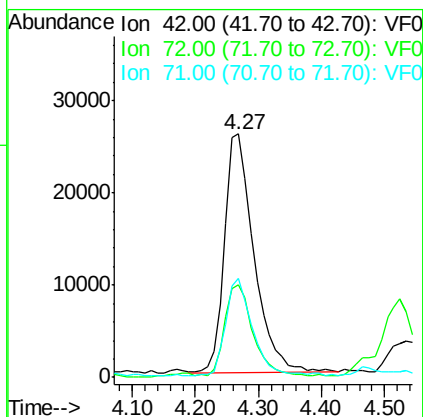
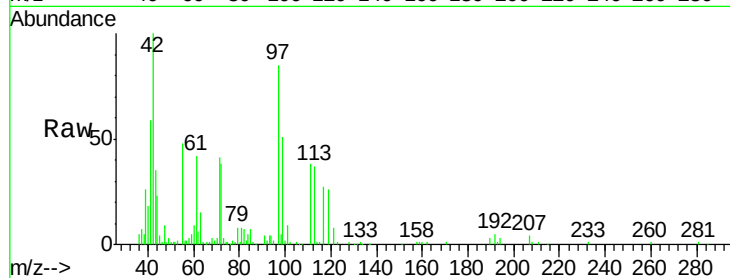
#29
Tetrahydrofuran
Concen: 108.532 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.5	28.7	43.1
71	37.1	30.8	46.2

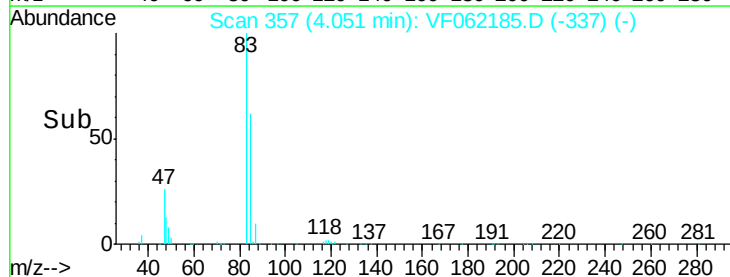
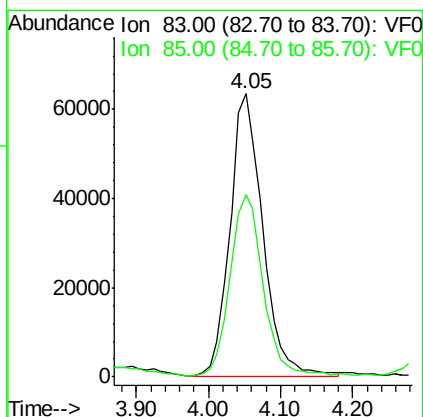
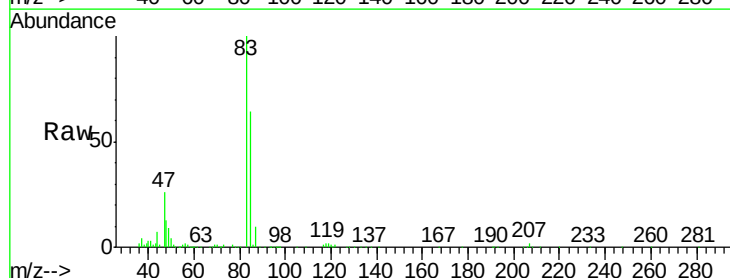
Manual Integrations
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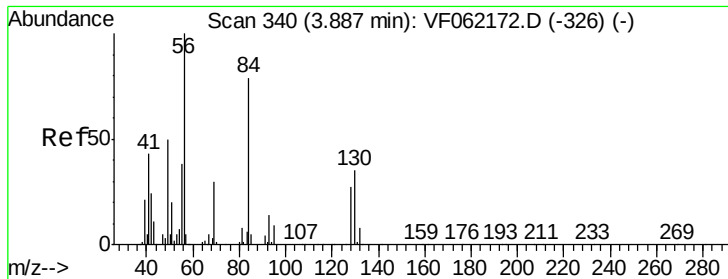
MMDadoda
4/17/2019 11:49:31 AM



#30
Chloroform
Concen: 23.513 ug/l
RT: 4.05 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.5	80.3





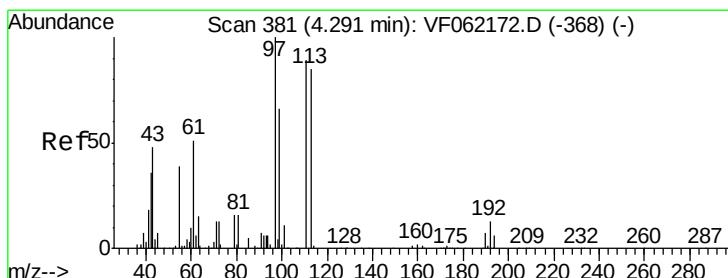
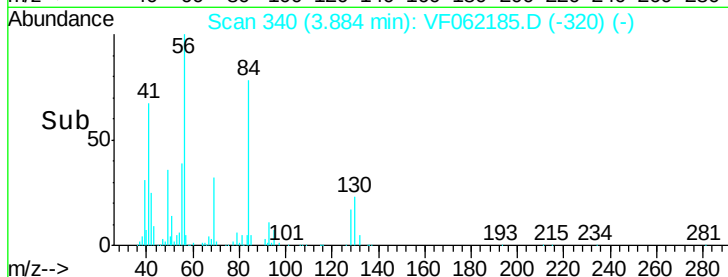
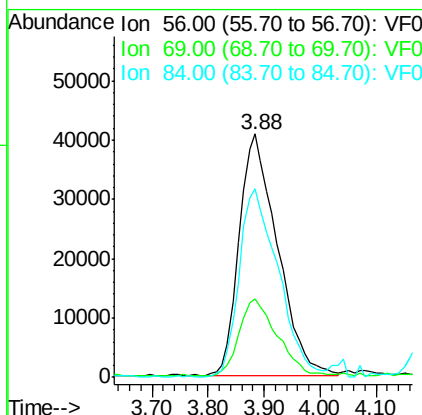
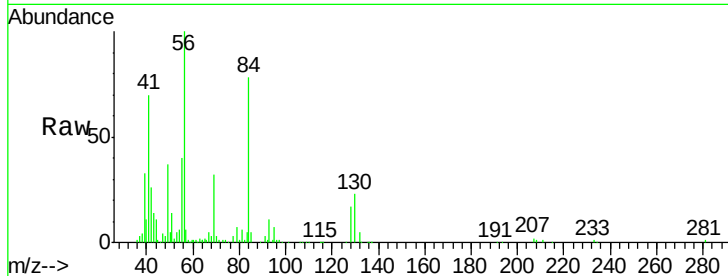
#31
Cyclohexane
Concen: 21.837 ug/l
RT: 3.88 min Scan# 340
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.4	36.6
84	77.7	63.4	95.2

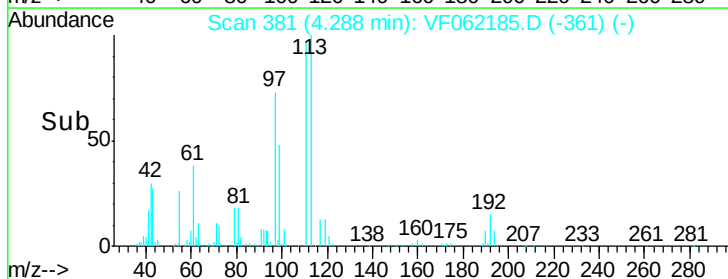
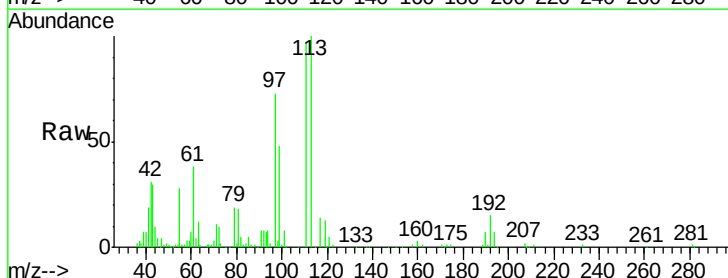
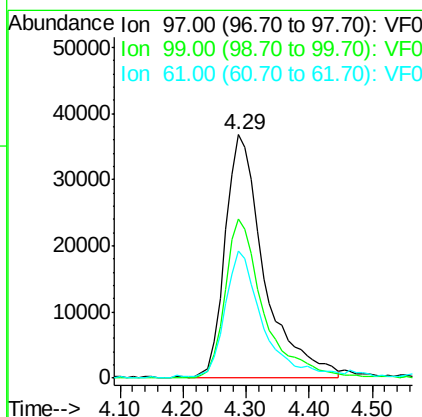
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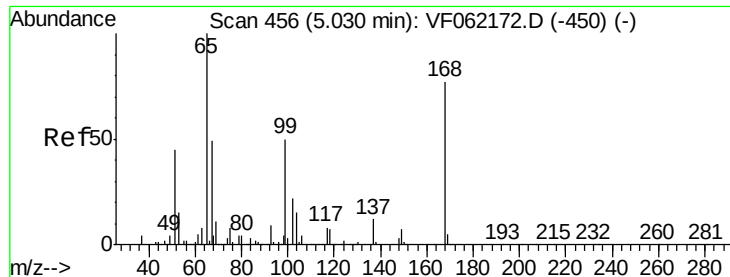
MMDadoda
4/17/2019 11:49:31 AM



#32
1,1,1-Trichloroethane
Concen: 26.952 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.3	78.5
61	52.1	40.9	61.3





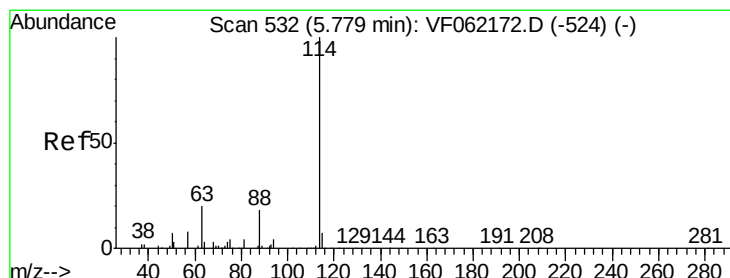
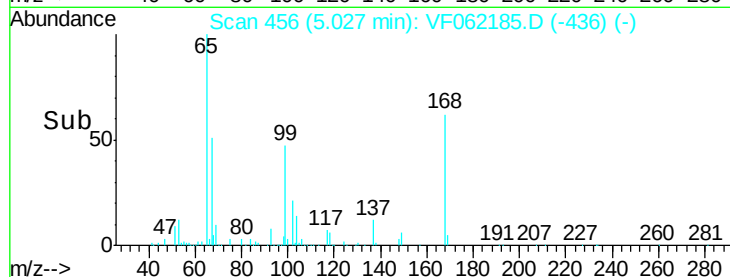
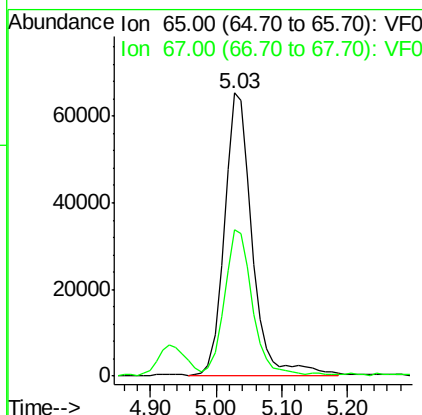
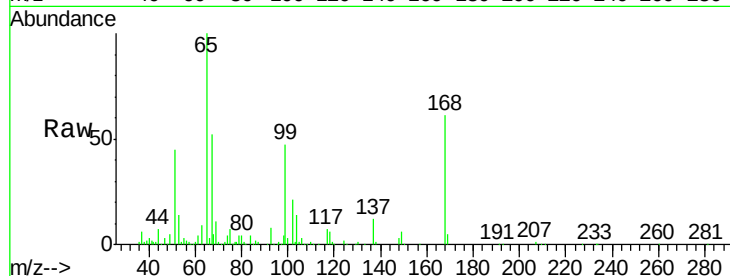
#33
 1,2-Dichloroethane-d4
 Concen: 52.751 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. -0.00 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	190397		
67	51.6	0.0	107.8	

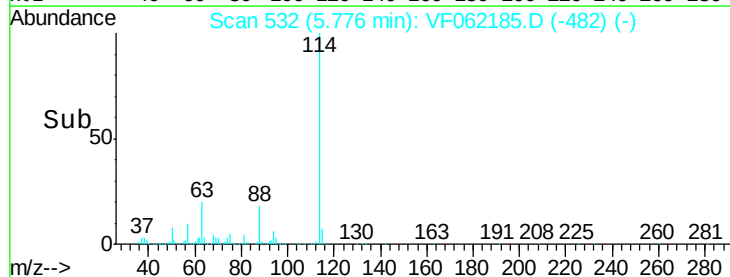
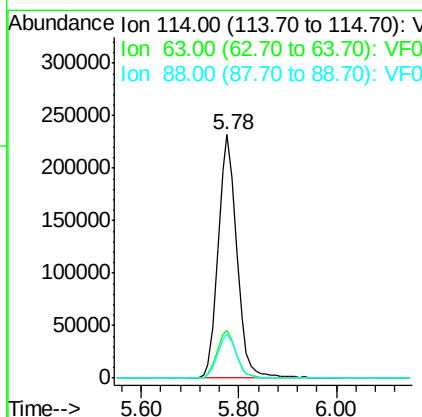
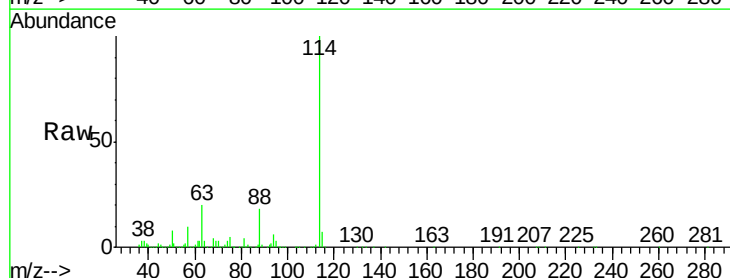
Manual Integrations
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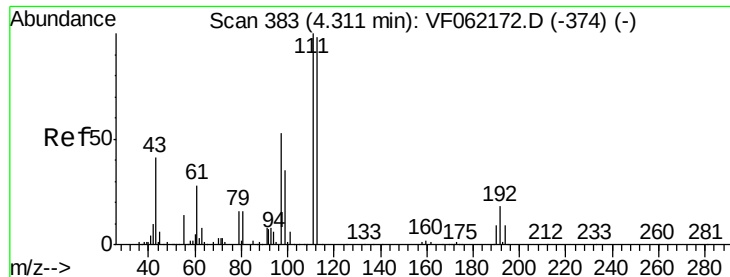
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. -0.00 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	620129		
63	19.6	0.0	40.0	
88	18.3	0.0	36.6	





#35

Dibromofluoromethane

Concen: 51.054 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

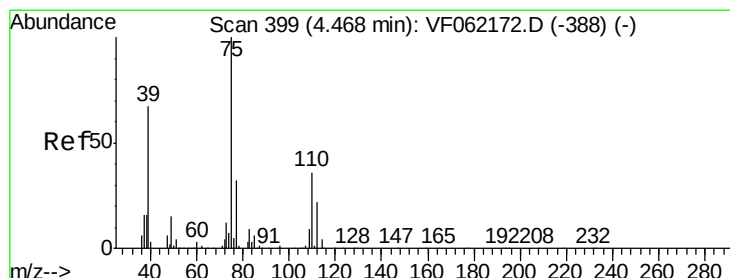
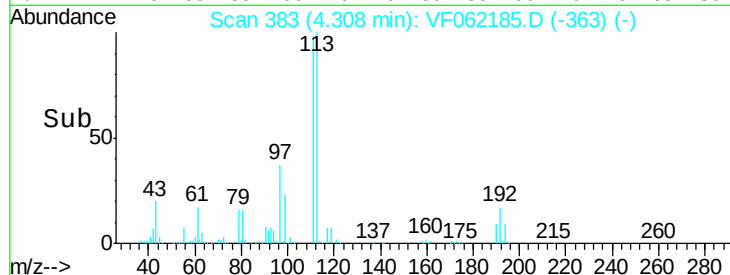
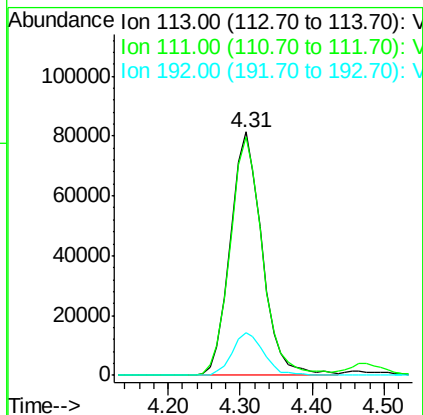
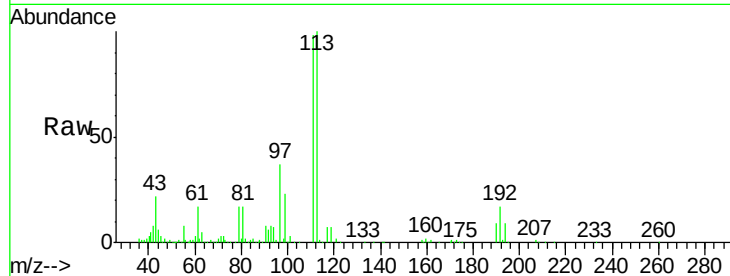
ClientSampleId :

VF0416SBS01

Tot Ion:	113	Resp:	249742
Ion Ratio	Lower	Upper	
113	100		
111	98.0	81.6	122.4
192	17.3	15.0	22.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 22.622 ug/l

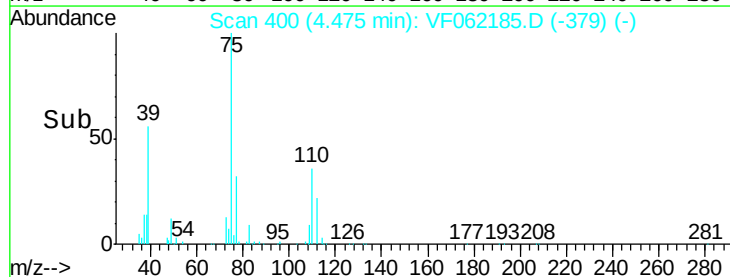
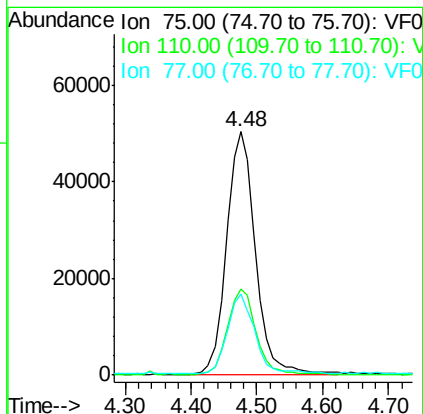
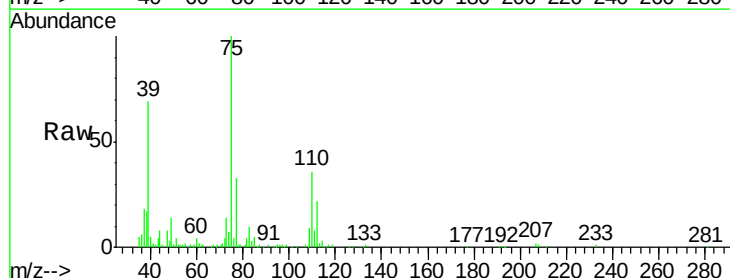
RT: 4.48 min Scan# 400

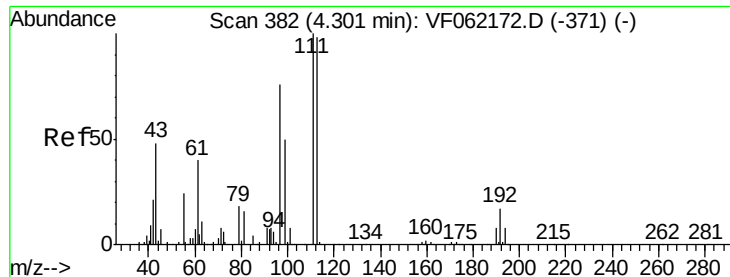
Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	75	Resp:	155867
Ion Ratio	Lower	Upper	
75	100		
110	35.6	17.9	53.8
77	33.2	25.6	38.4





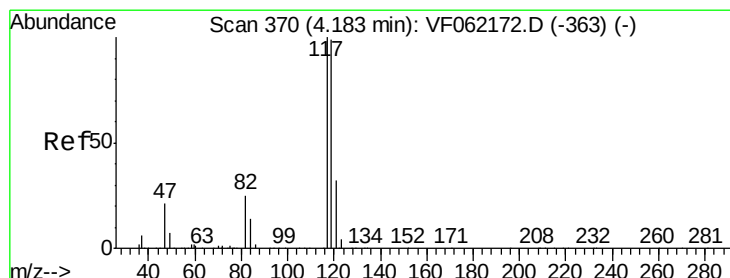
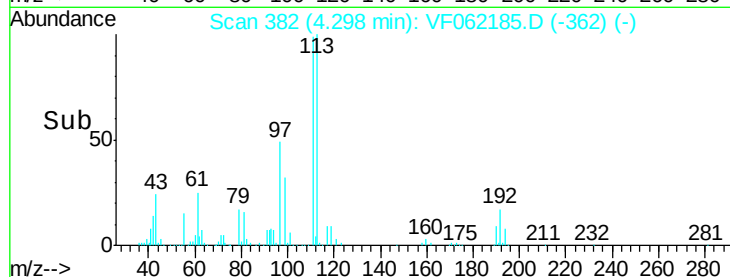
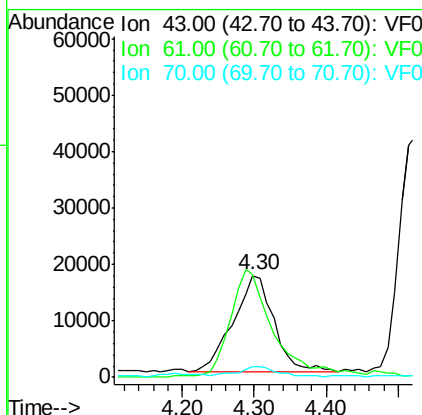
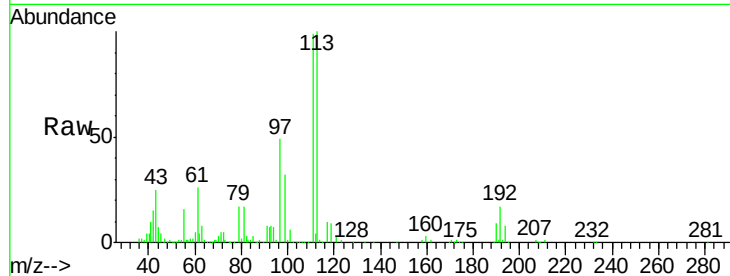
#37
Ethyl Acetate
Concen: 21.380 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	100.9	64.9	97.3#
70	10.6	7.8	11.8

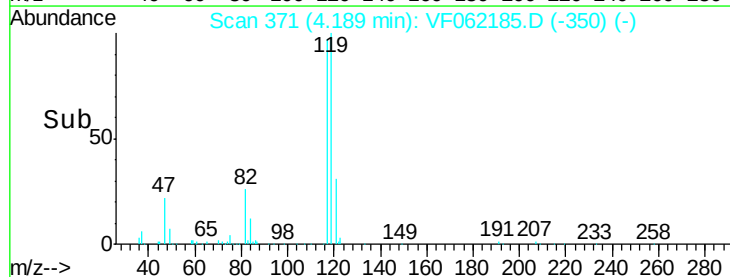
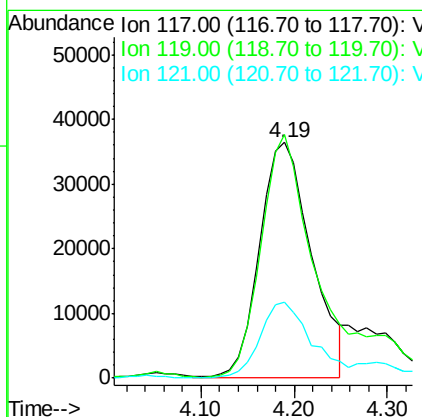
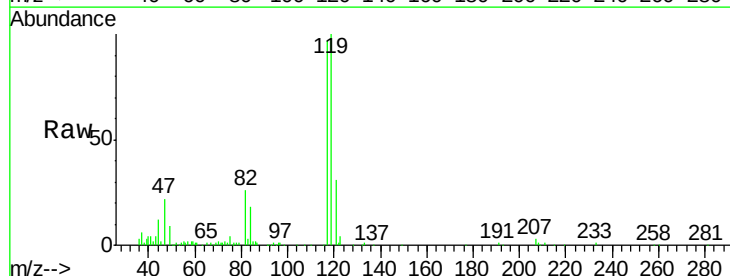
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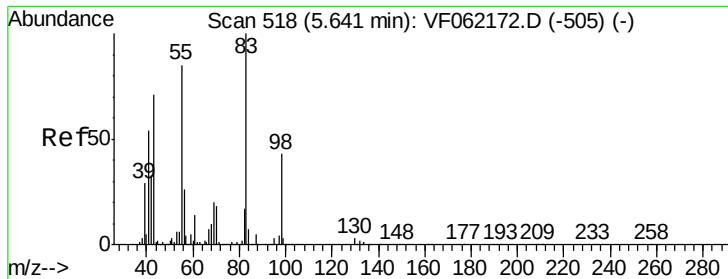
MMDadoda
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#38
Carbon Tetrachloride
Concen: 23.826 ug/l m
RT: 4.19 min Scan# 371
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	103.4	78.9	118.3
121	32.2	25.3	37.9





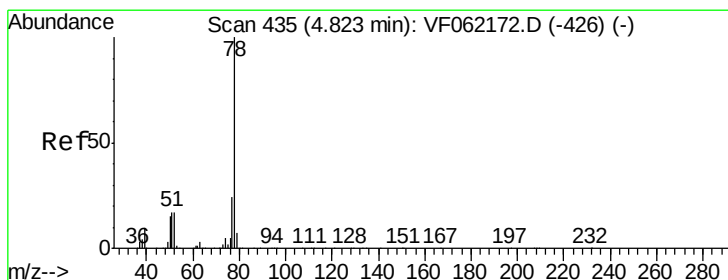
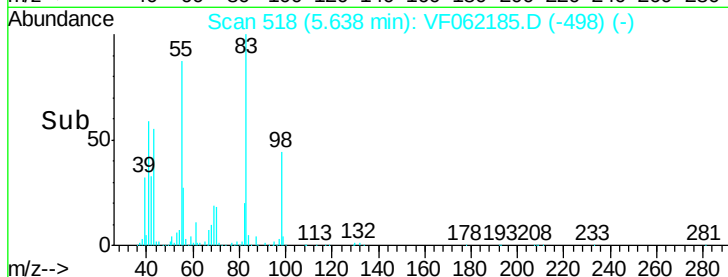
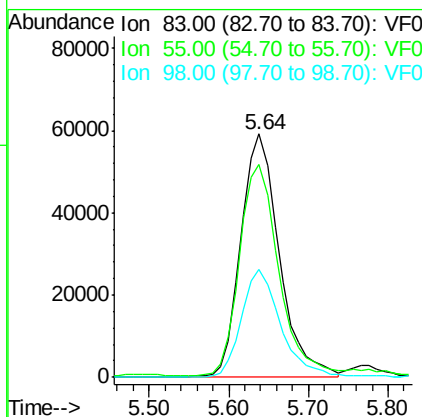
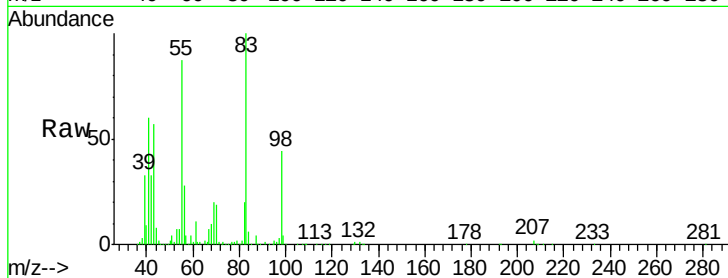
#39
Methylvlcyclohexane
Concen: 22.769 ug/l
RT: 5.64 min Scan# 518
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	196597		
55	87.4	68.2	102.2	
98	44.3	34.4	51.6	

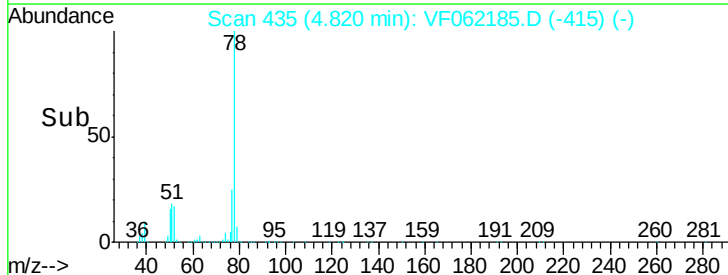
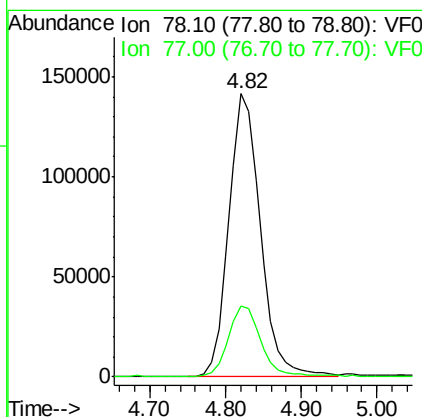
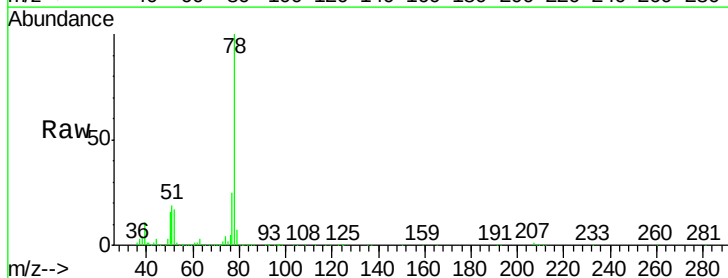
Manual Integrations
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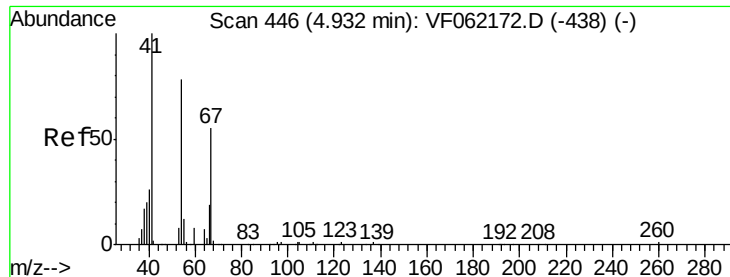
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#40
Benzene
Concen: 22.425 ug/l
RT: 4.82 min Scan# 435
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	408137		
77	25.0	19.1	28.7	





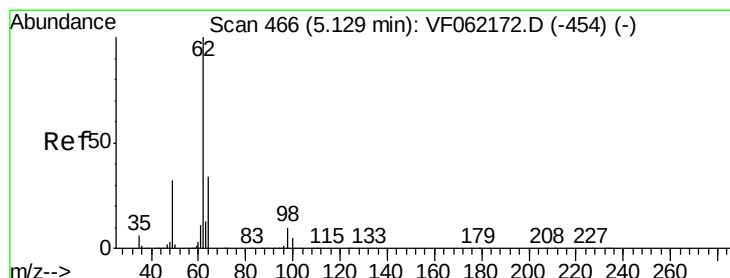
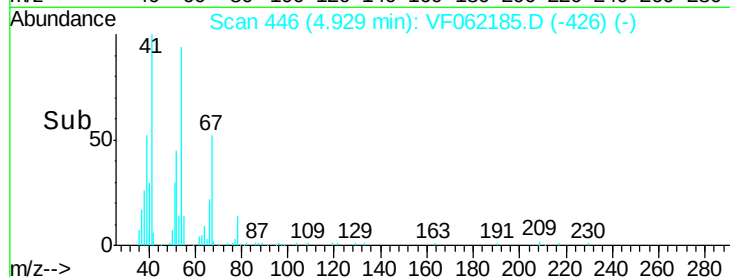
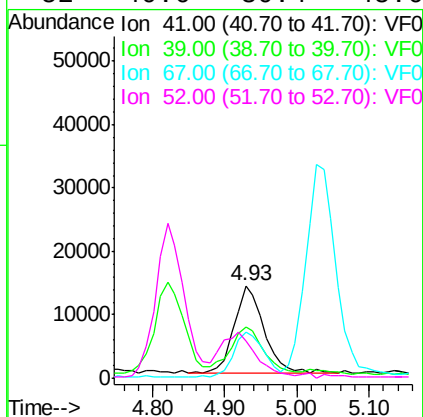
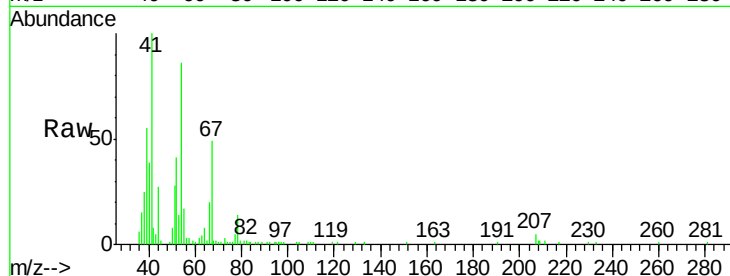
#41
Methacrylonitrile
Concen: 21.305 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.0	43.5	65.3	
67	49.5	42.9	64.3	
52	40.6	30.4	45.6	

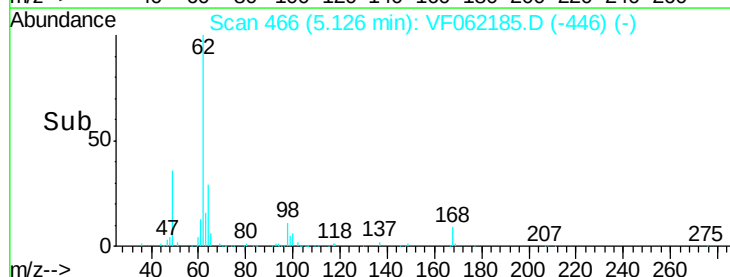
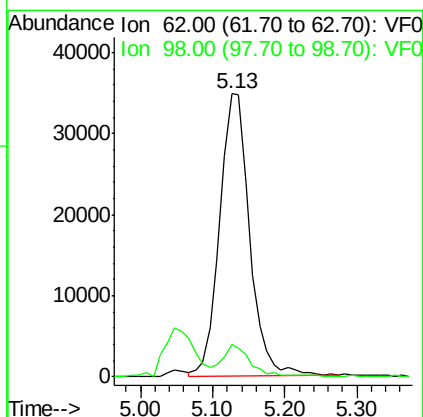
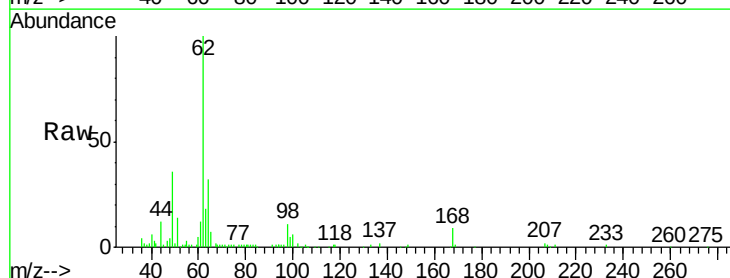
Manual Integrations
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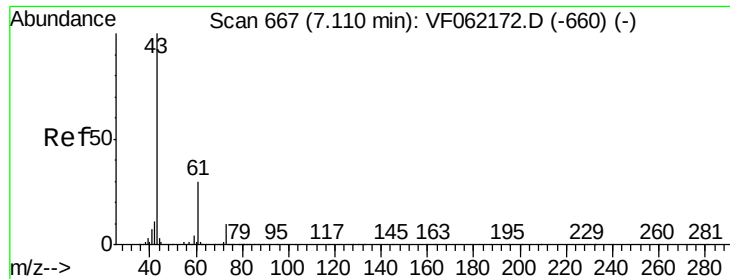
MMDadoda
4/17/2019 11:49:31 AM



#42
1,2-Dichloroethane
Concen: 21.694 ug/l
RT: 5.13 min Scan# 466
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	11.3	0.0	22.0	





#43

Isopropyl Acetate

Concen: 20.653 ug/l

RT: 7.12 min Scan# 668

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

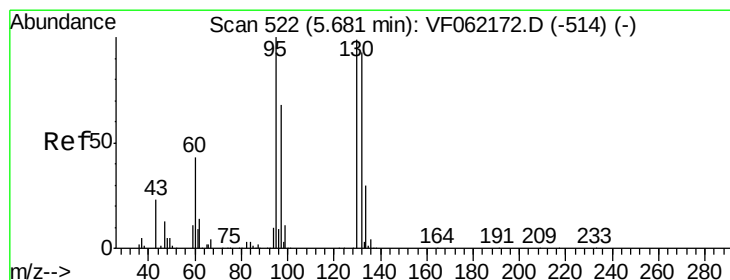
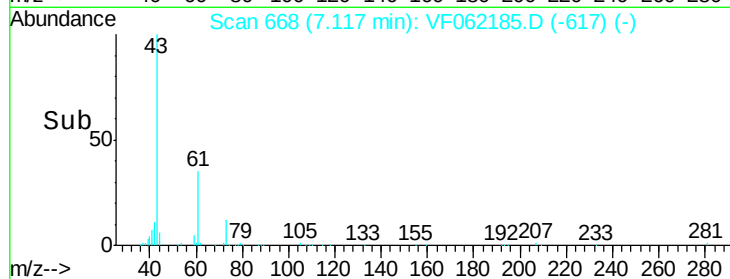
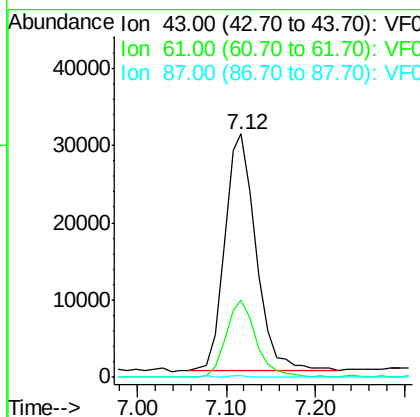
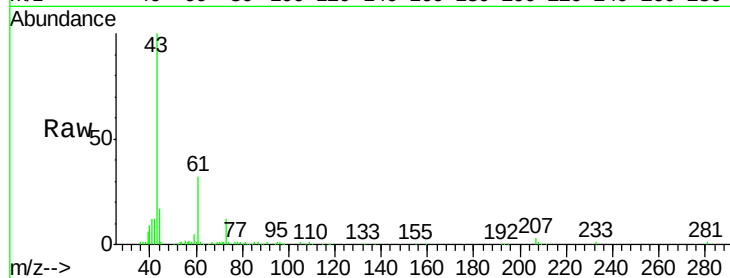
ClientSampleId :

VF0416SBS01

Tot Ion:	43	Resp:	75756
Ion	Ratio	Lower	Upper
43	100		
61	31.9	23.7	35.5
87	0.6	0.3	0.5#

Manual Integrations
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4/17/2019 11:49:31 AM



#44

Trichloroethene

Concen: 22.127 ug/l

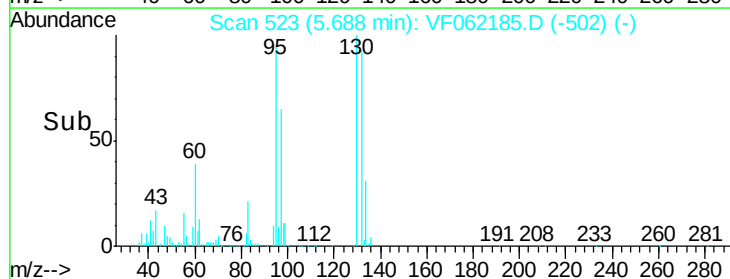
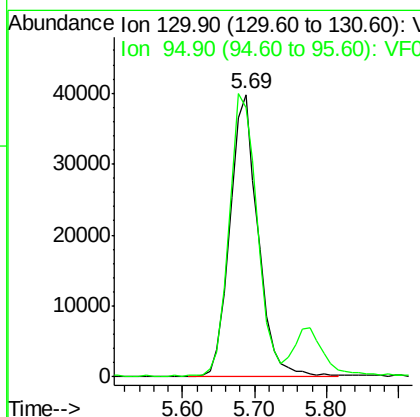
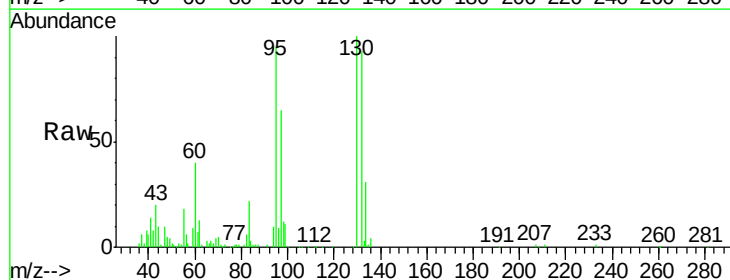
RT: 5.69 min Scan# 523

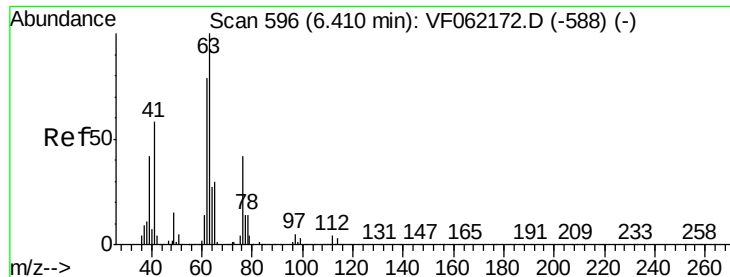
Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	130	Resp:	107788
Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	202.2





#45

1,2-Dichloropropane

Concen: 21.837 ug/l

RT: 6.41 min Scan# 596

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 63 Resp: 97502

Ion Ratio Lower Upper

63 100

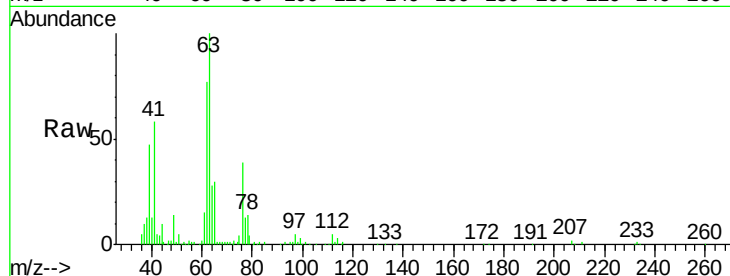
65 30.2 23.7 35.5

Manual Integrations

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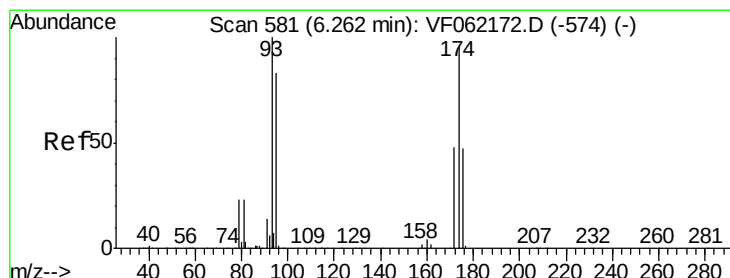
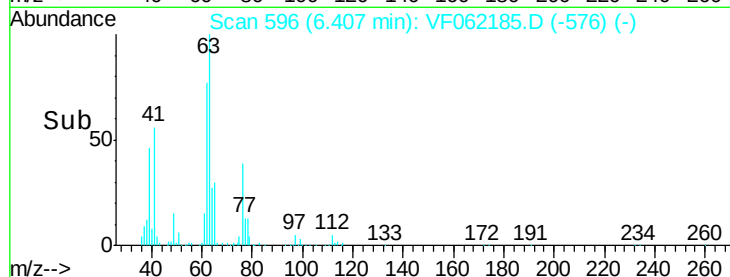
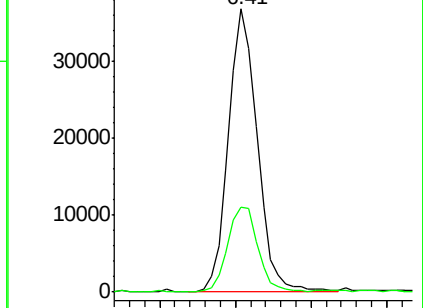
MMDadoda

4/17/2019 11:49:31 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 21.711 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

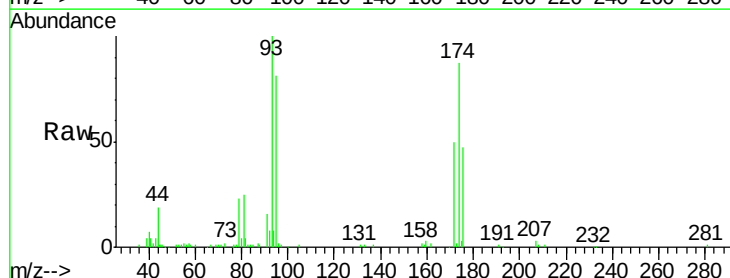
Tgt Ion: 93 Resp: 58455

Ion Ratio Lower Upper

93 100

95 81.1 67.0 100.6

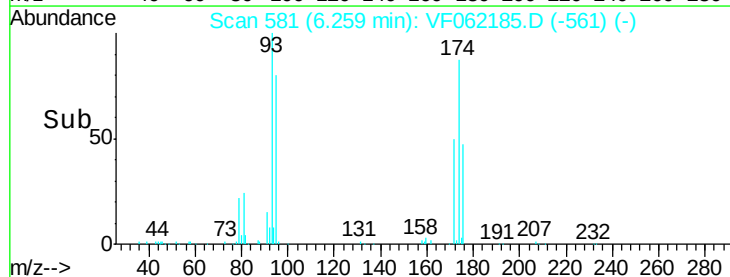
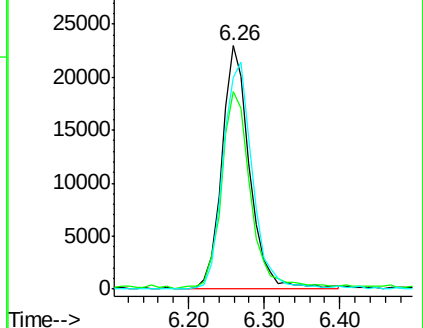
174 87.0 76.3 114.5

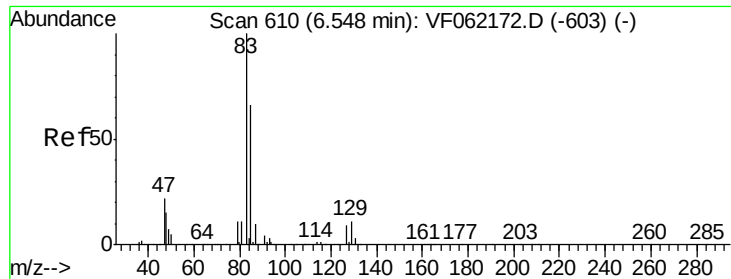


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 21.912 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

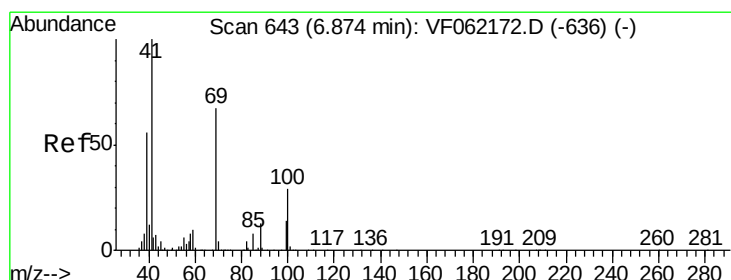
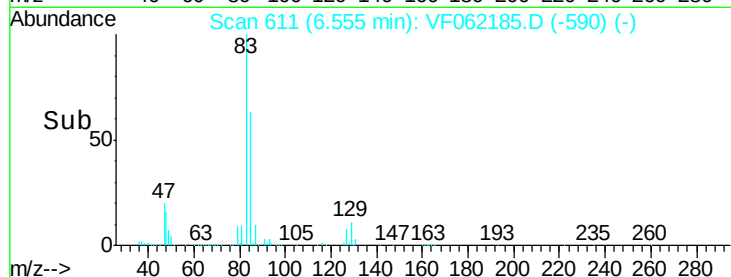
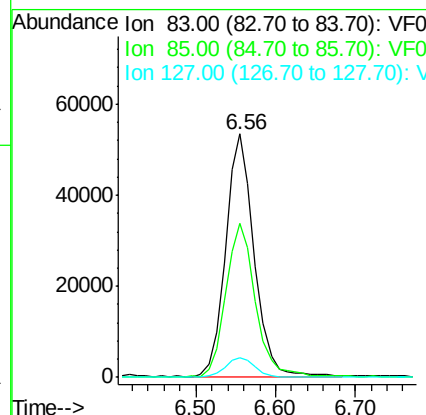
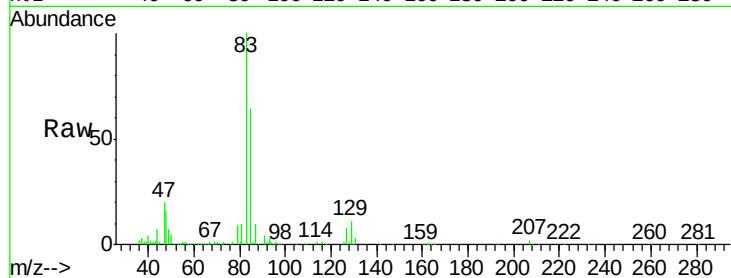
ClientSampleId :

VF0416SBS01

Tot Ion:	83	Resp:	133653
Ion Ratio		Lower	Upper
83	100		
85	63.5	52.6	79.0
127	8.0	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 22.283 ug/l

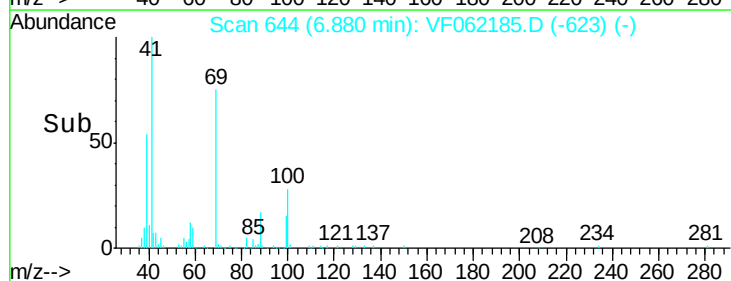
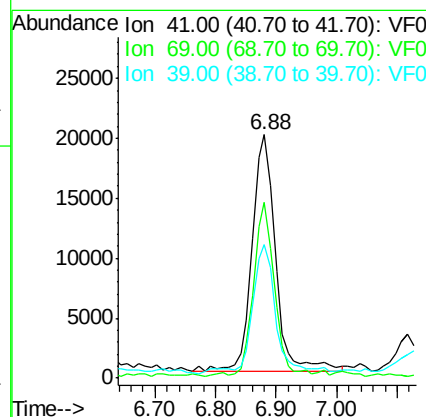
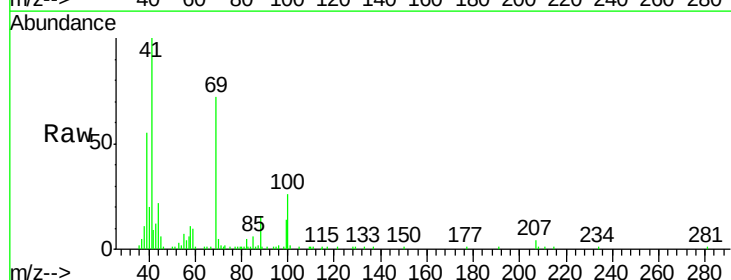
RT: 6.88 min Scan# 644

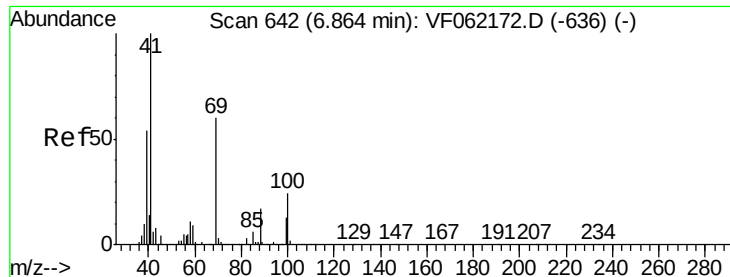
Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	41	Resp:	53516
Ion Ratio		Lower	Upper
41	100		
69	72.2	52.8	79.2
39	54.6	45.0	67.4





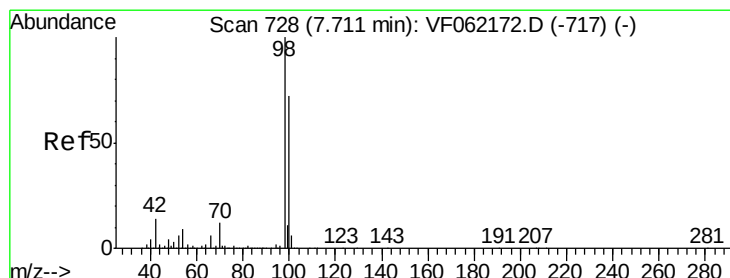
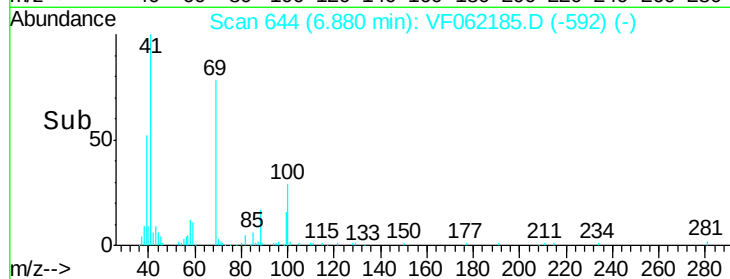
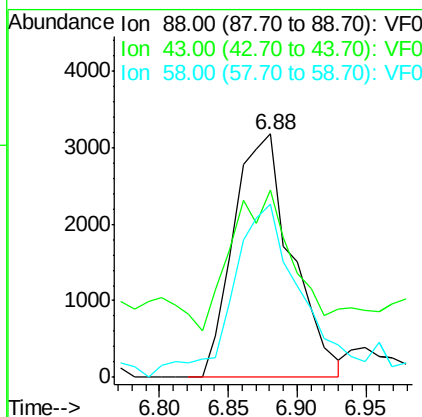
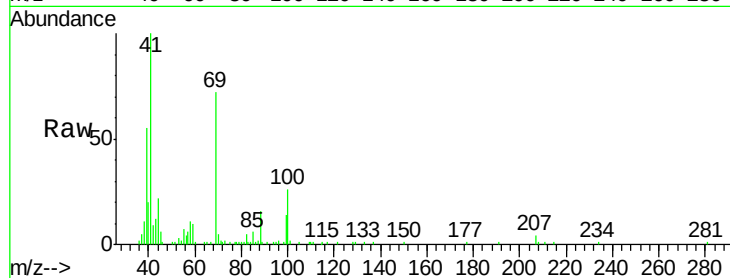
#49
1,4-Dioxane
Concen: 498.584 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.02 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	77.0	49.5	74.3#
58	71.2	52.6	79.0

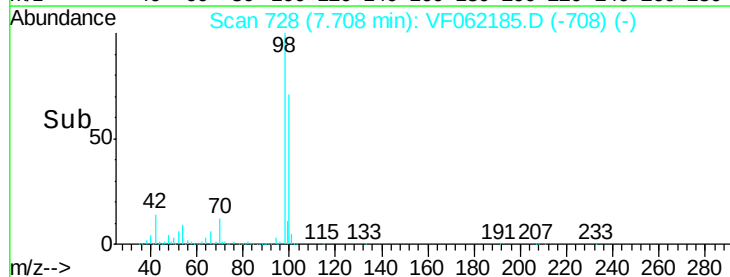
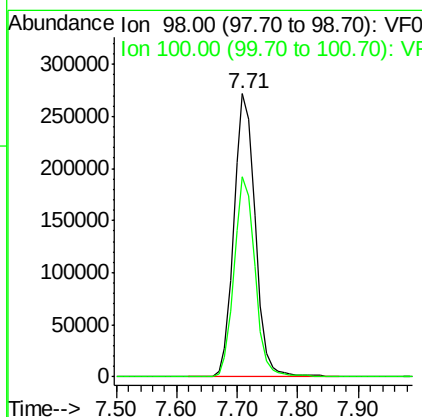
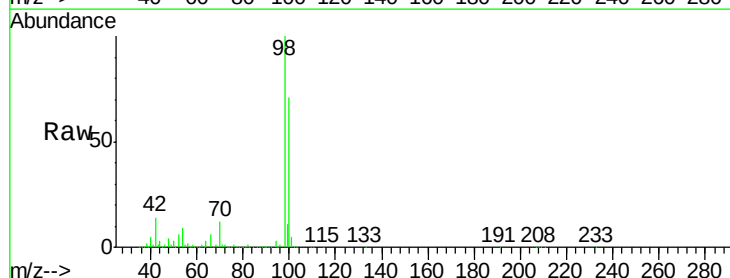
Manual Integrations
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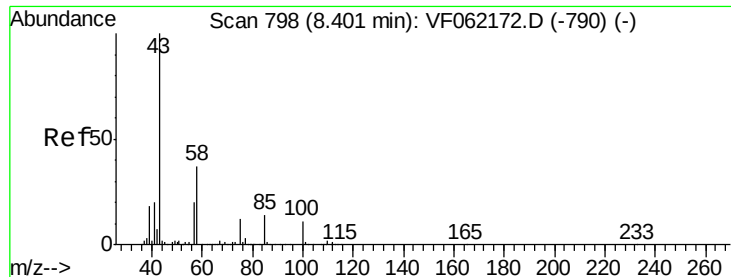
MMDadoda
4/17/2019 11:49:31 AM



#50
Toluene-d8
Concen: 46.702 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.6	57.4	86.0





#51

4-Methyl-2-Pentanone

Concen: 99.738 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 281916

Ion Ratio Lower Upper

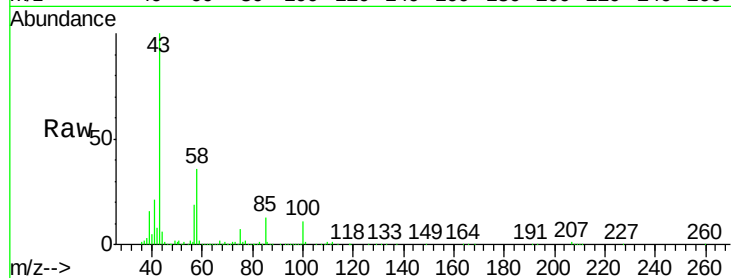
43 100

58 36.0 29.7 44.5

Manual Integrations
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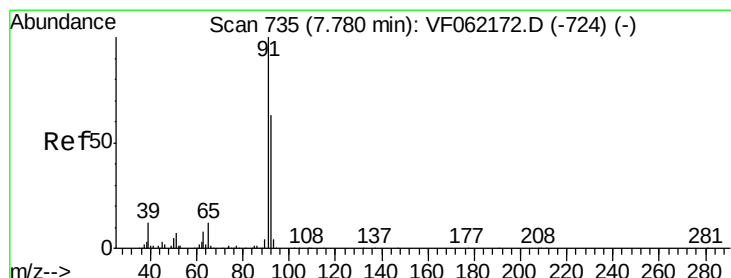
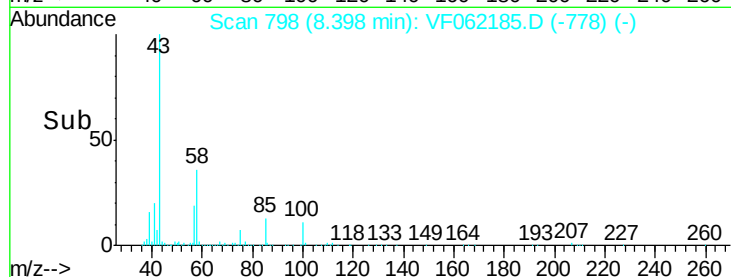
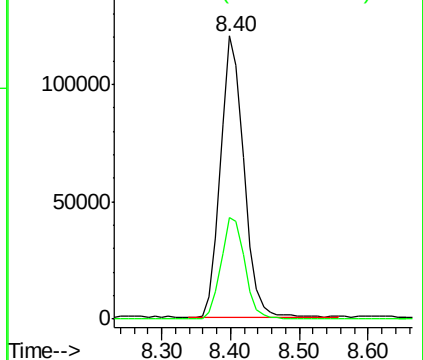
MMDadoda

4/17/2019 11:49:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.686 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF062185.D

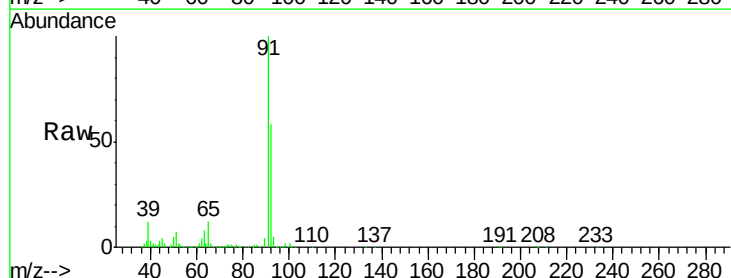
Acq: 16 Apr 2019 19:39

Tgt Ion: 92 Resp: 221171

Ion Ratio Lower Upper

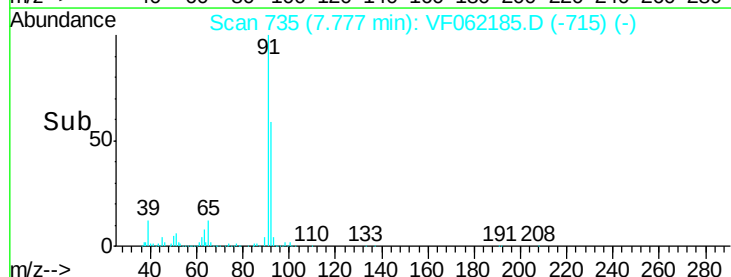
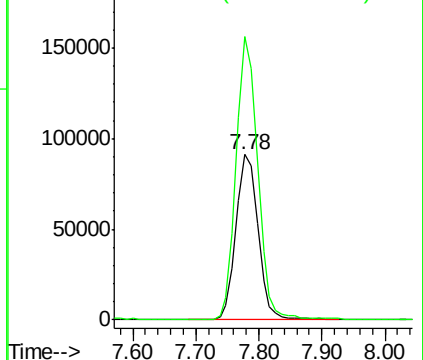
92 100

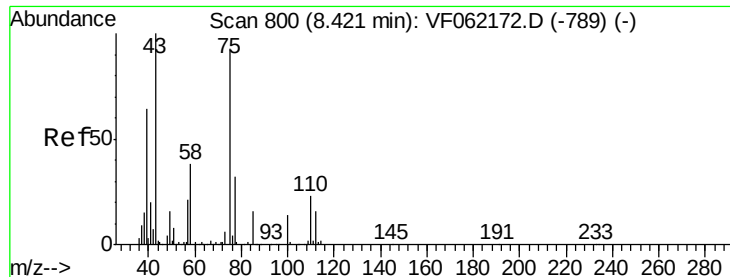
91 171.3 126.9 190.3



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: 19.955 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 75 Resp: 105432

Ion Ratio Lower Upper

75 100

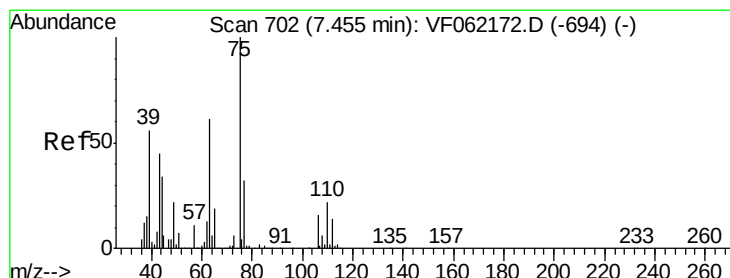
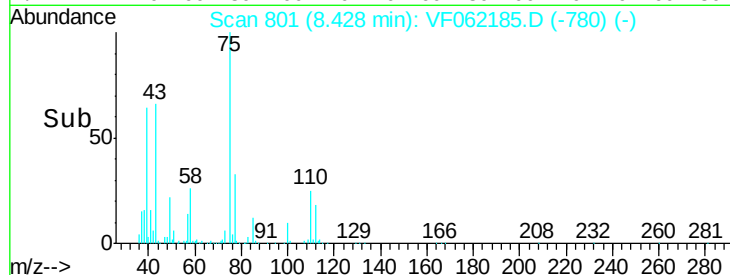
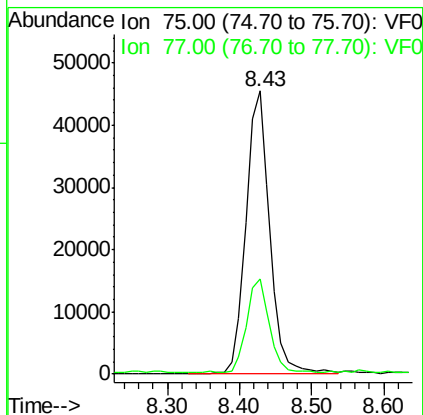
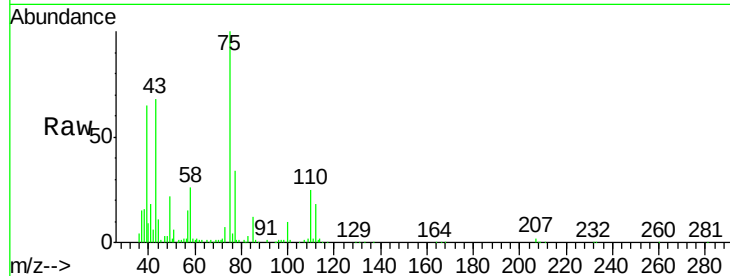
77 33.6 27.8 41.6

Manual Integrations

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4/17/2019 11:49:31 AM



#54

cis-1,3-Dichloropropene

Concen: 21.111 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

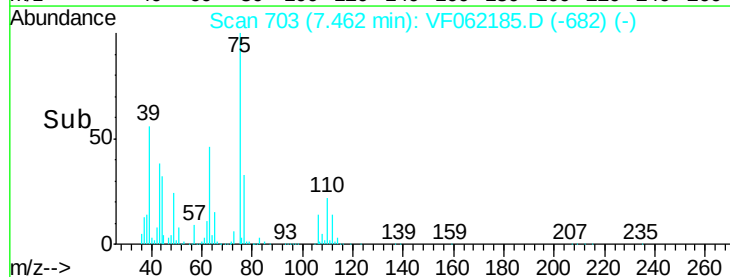
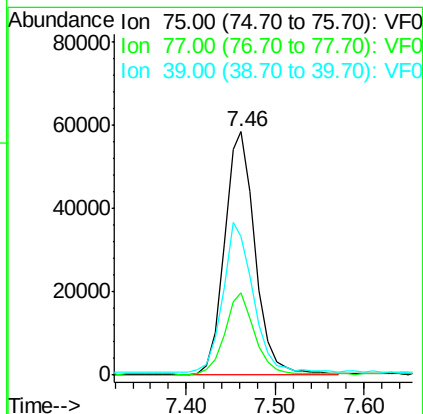
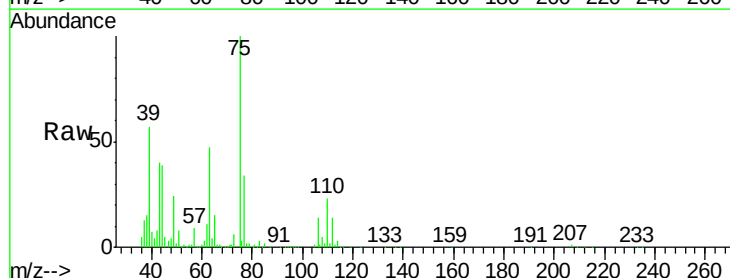
Tgt Ion: 75 Resp: 141829

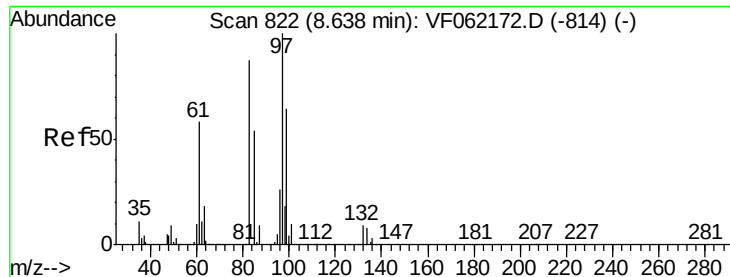
Ion Ratio Lower Upper

75 100

77 33.6 26.0 39.0

39 56.8 45.2 67.8





#55

1,1,2-Trichloroethane

Concen: 20.061 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

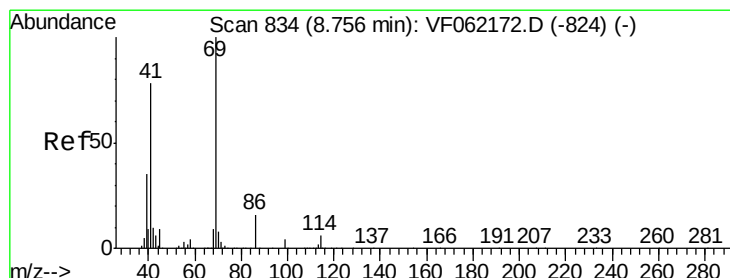
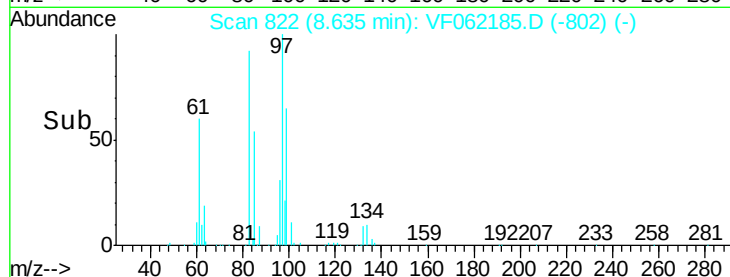
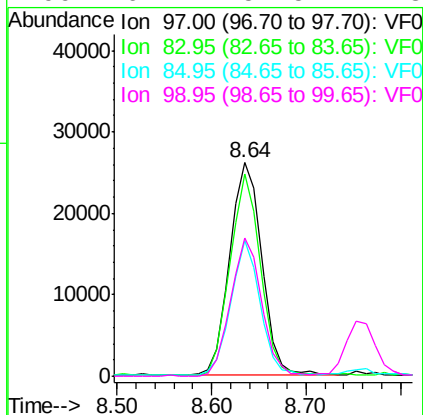
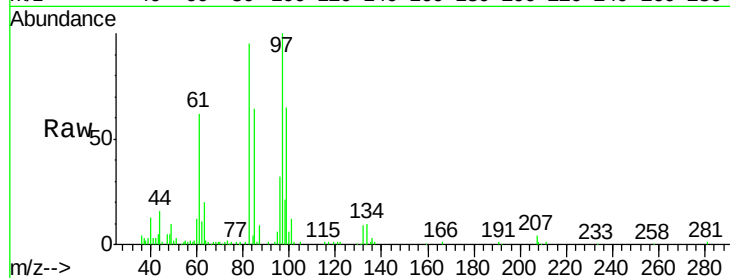
ClientSampleId :

VF0416SBS01

Tot Ion:	97	Resp:	61431
Ion	Ratio	Lower	Upper
97	100		
83	94.8	69.6	104.4
85	63.6	43.5	65.3
99	64.7	51.5	77.3

Manual Integrations
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4/17/2019 11:49:31 AM



#56

Ethyl methacrylate

Concen: 20.806 ug/l

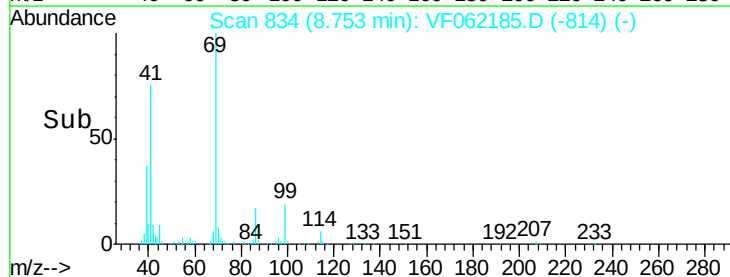
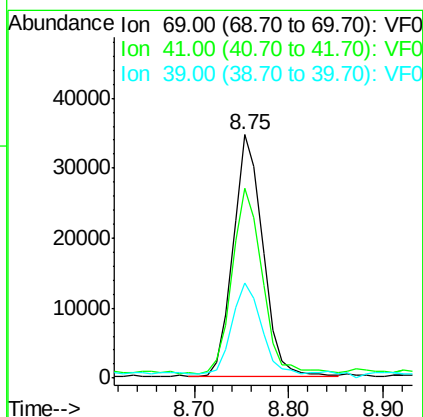
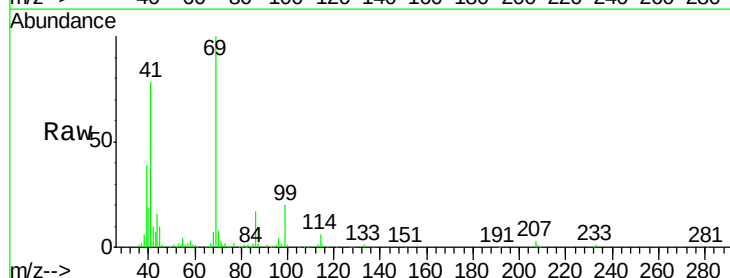
RT: 8.75 min Scan# 834

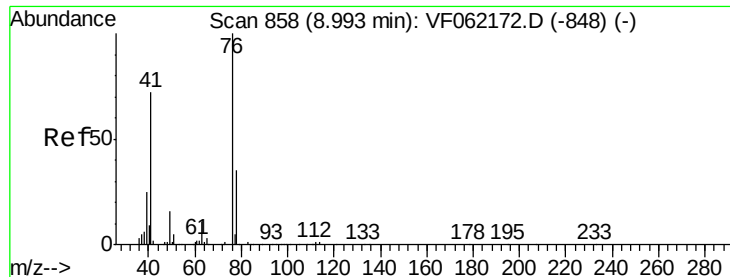
Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	69	Resp:	75759
Ion	Ratio	Lower	Upper
69	100		
41	77.9	63.4	95.0
39	39.3	29.0	43.6





#57

1,3-Dichloropropane

Concen: 20.066 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tot Ion: 76 Resp: 101016

Ion Ratio Lower Upper

76 100

78 31.0 28.2 42.2

Instrument :

MSVOA_F

ClientSampleId :

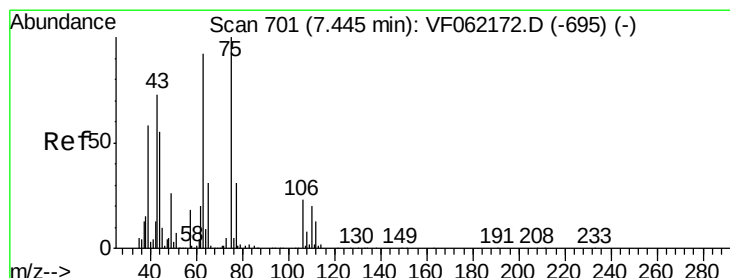
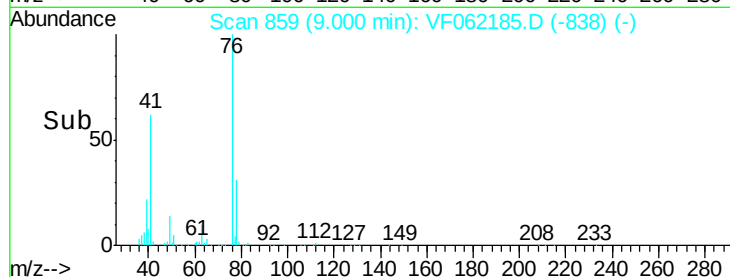
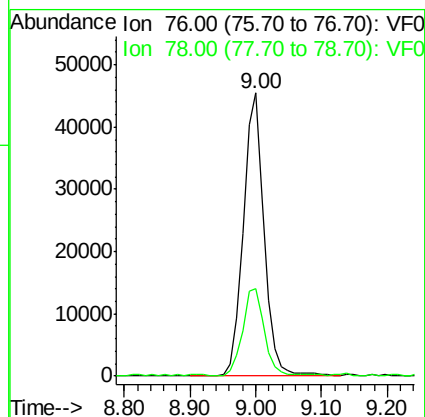
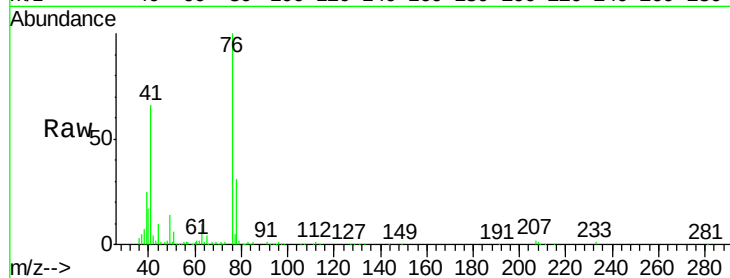
VF0416SBS01

Manual Integrations

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4/17/2019 11:49:31 AM



#58

2-Chloroethyl Vinyl ether

Concen: 94.437 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF062185.D

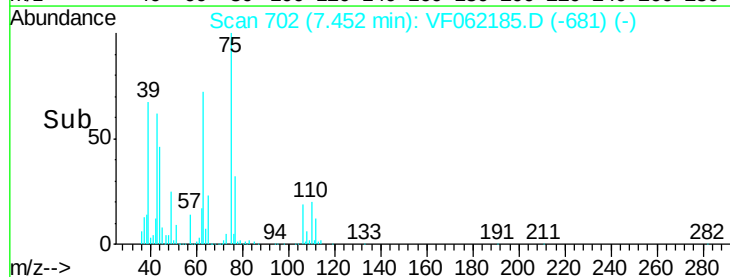
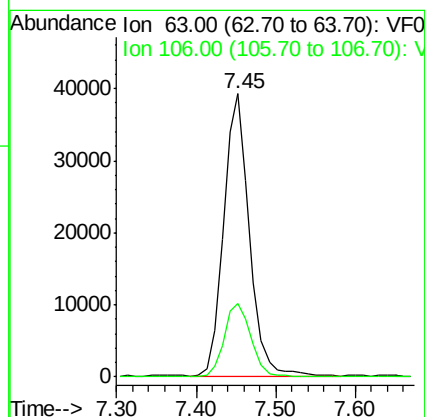
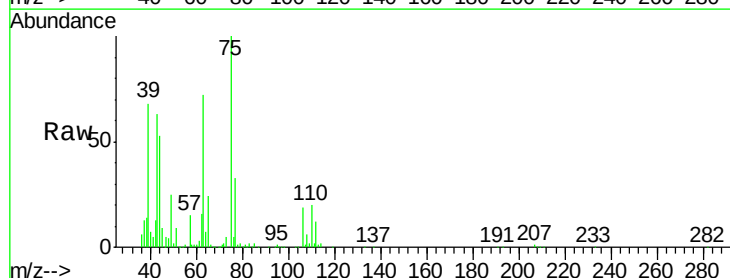
Acq: 16 Apr 2019 19:39

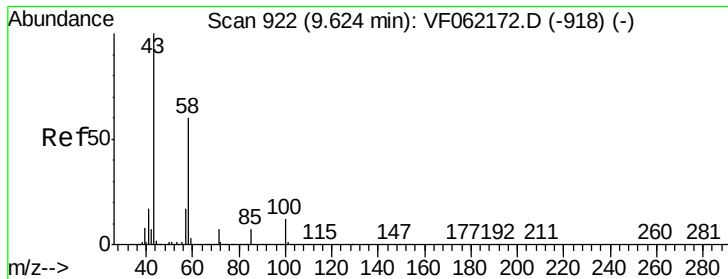
Tgt Ion: 63 Resp: 88599

Ion Ratio Lower Upper

63 100

106 26.1 20.2 30.4





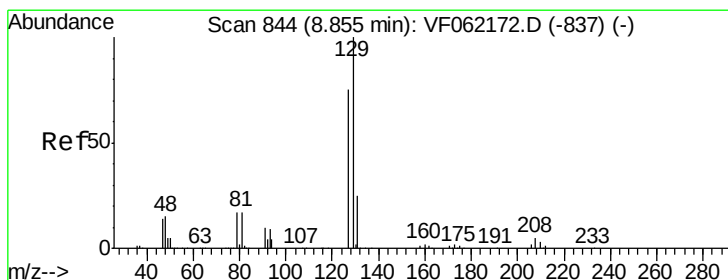
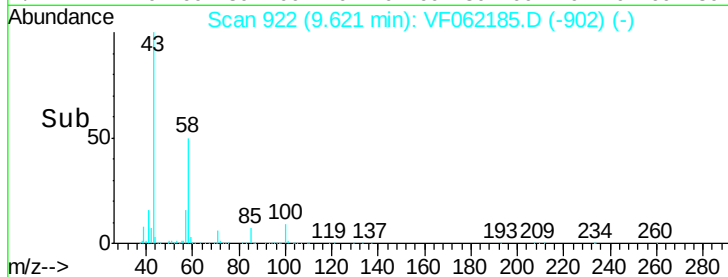
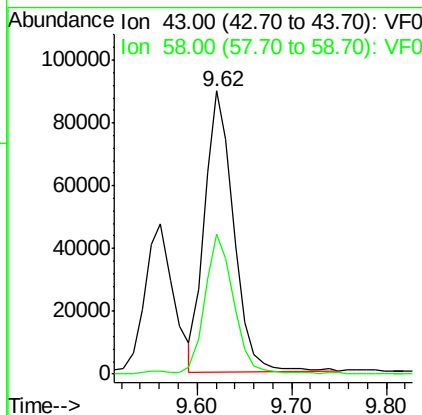
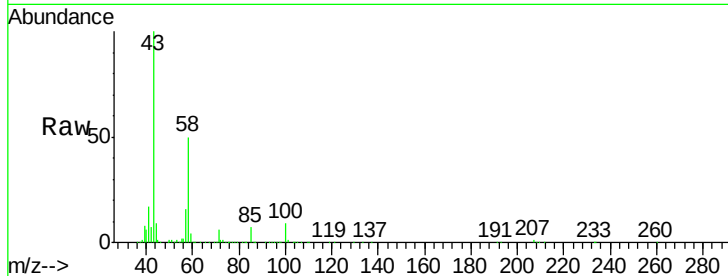
#59
2-Hexanone
Concen: 106.931 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.6	26.8	80.4

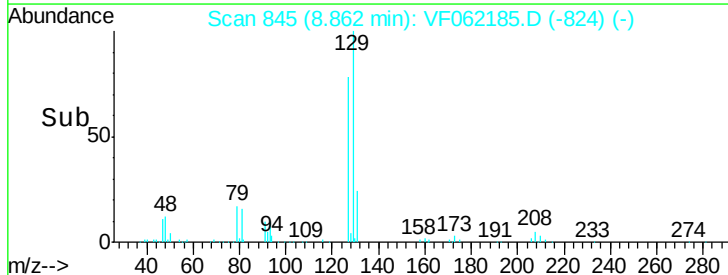
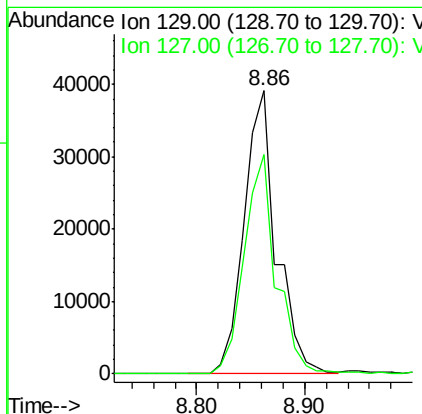
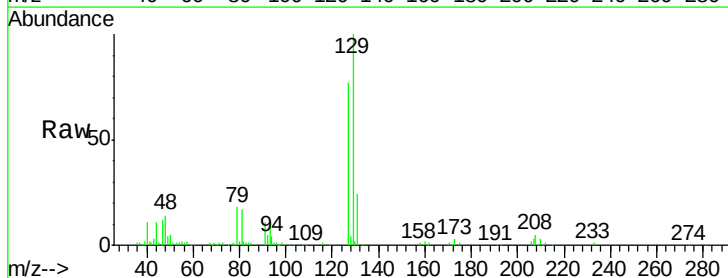
Manual Integrations
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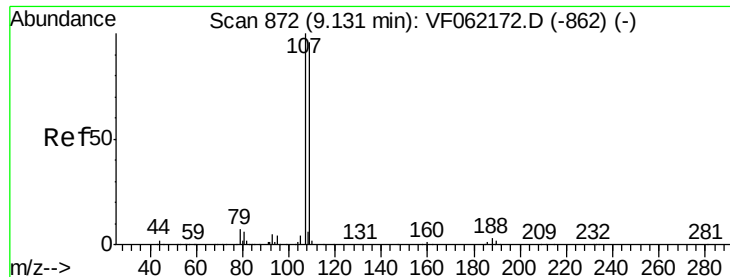
MMDadoda
4/17/2019 11:49:31 AM



#60
Dibromochloromethane
Concen: 19.313 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.4	37.7	113.1





#61

1,2-Dibromoethane

Concen: 21.174 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:107 Resp: 69368

Ion Ratio Lower Upper

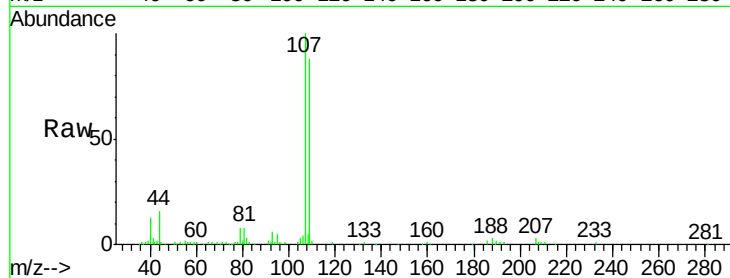
107 100

109 88.4 76.8 115.2

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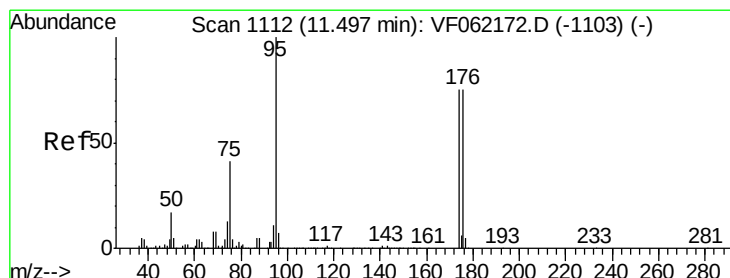
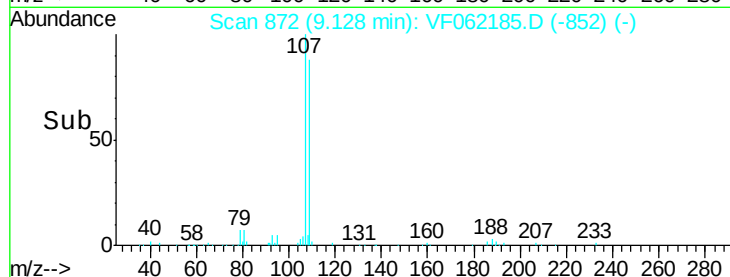
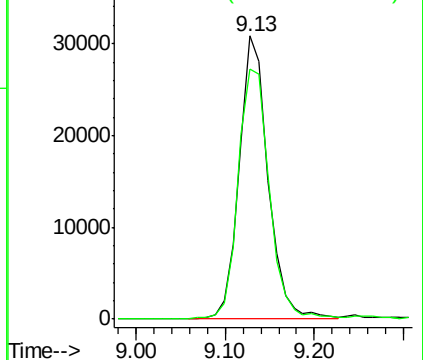
MMDadoda

4/17/2019 11:49:31 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 49.511 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

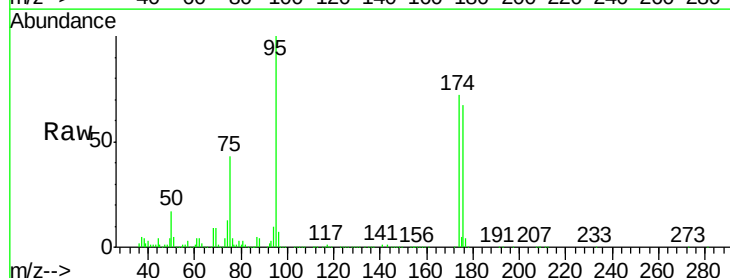
Tgt Ion: 95 Resp: 279495

Ion Ratio Lower Upper

95 100

174 71.9 0.0 150.2

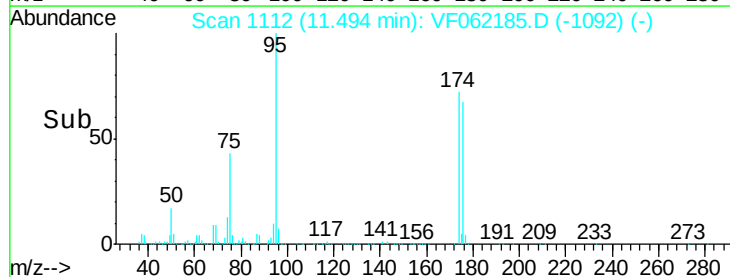
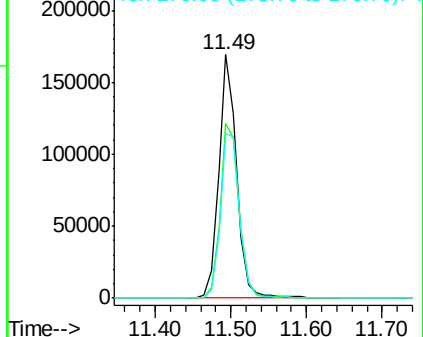
176 67.3 0.0 149.4

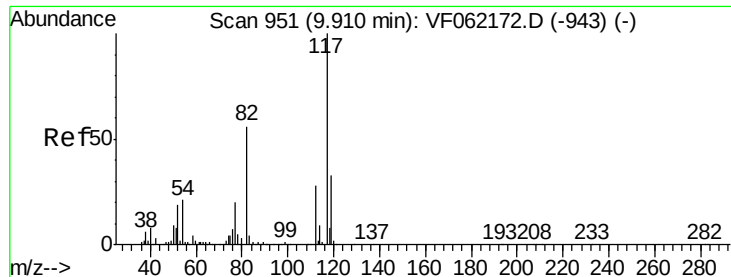


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

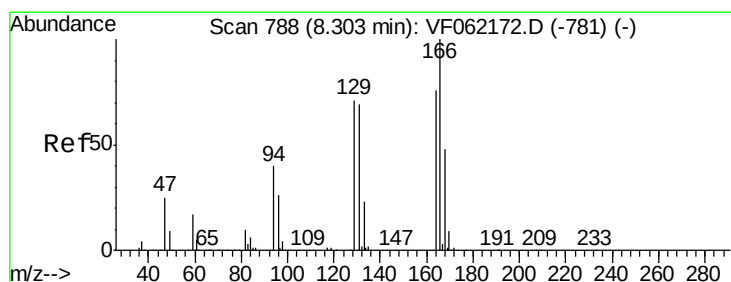
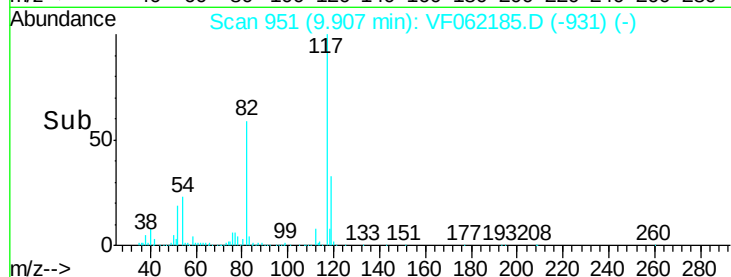
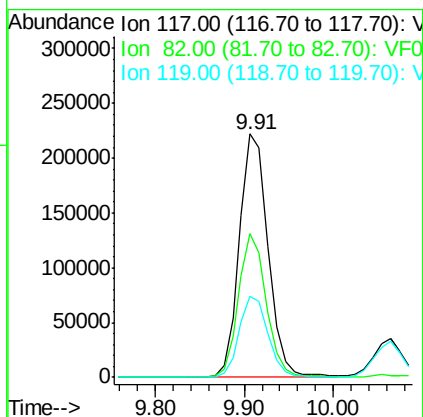
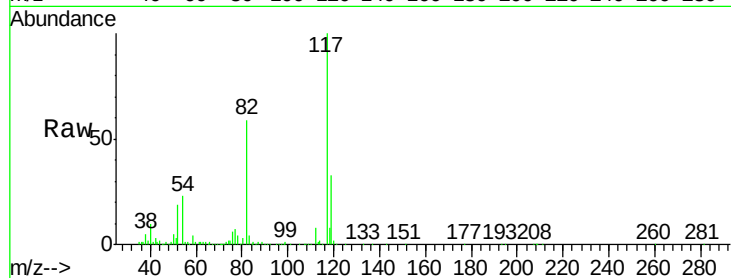
ClientSampleId :

VF0416SBS01

Tot Ion:	117	Resp:	498443
Ion Ratio	Lower	Upper	
117	100		
82	59.0	45.2	67.8
119	33.3	26.6	39.8

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#64

Tetrachloroethene

Concen: 22.018 ug/l

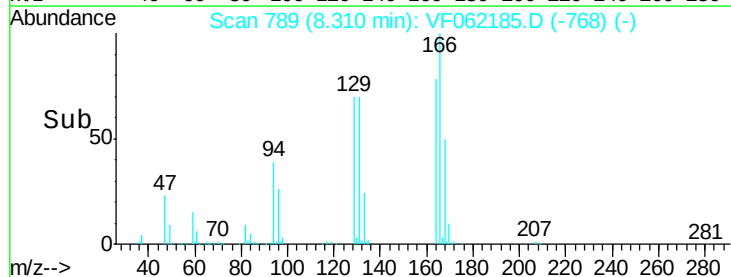
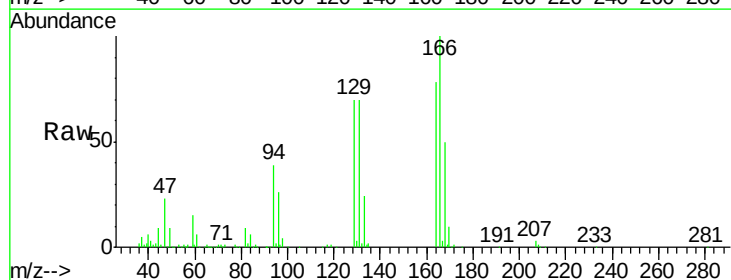
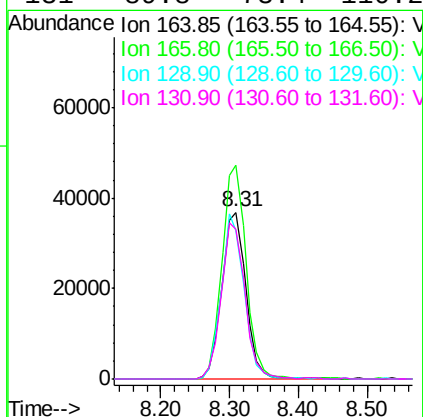
RT: 8.31 min Scan# 789

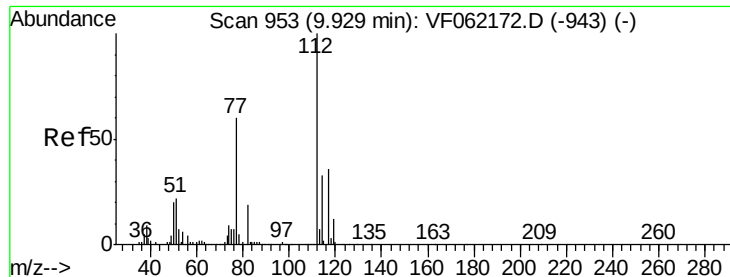
Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	164	Resp:	89636
Ion Ratio	Lower	Upper	
164	100		
166	128.2	105.9	158.9
129	89.5	75.3	112.9
131	89.8	73.4	110.2





#65

Chlorobenzene

Concen: 21.976 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:112 Resp: 227866

Ion Ratio Lower Upper

112 100

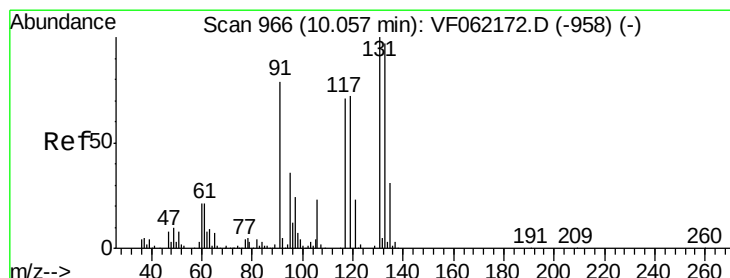
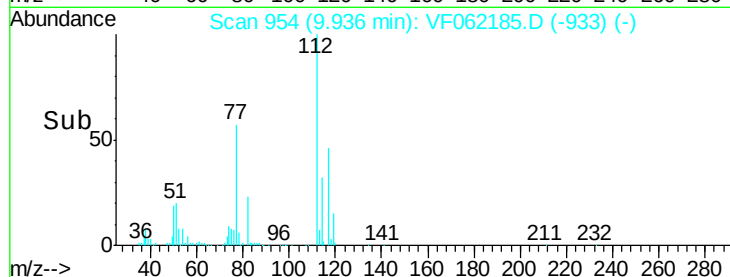
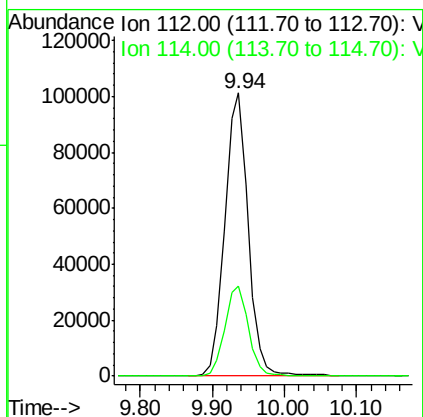
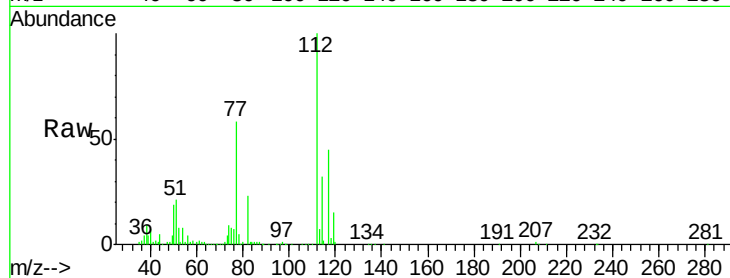
114 31.7 26.6 39.8

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 23.966 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

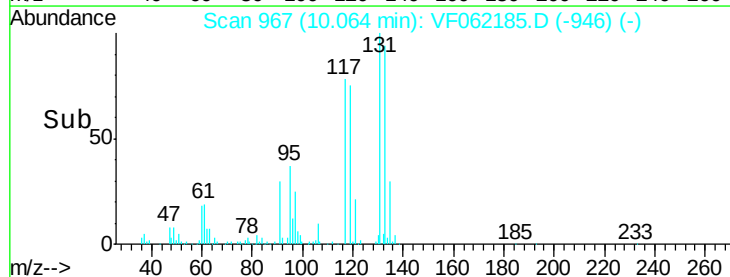
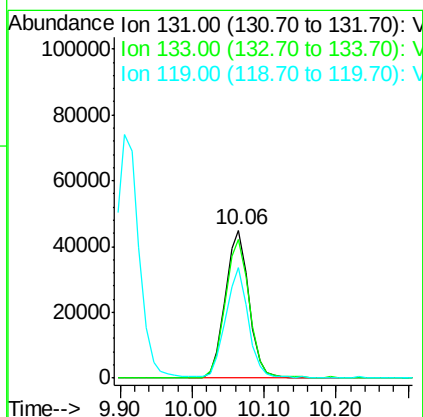
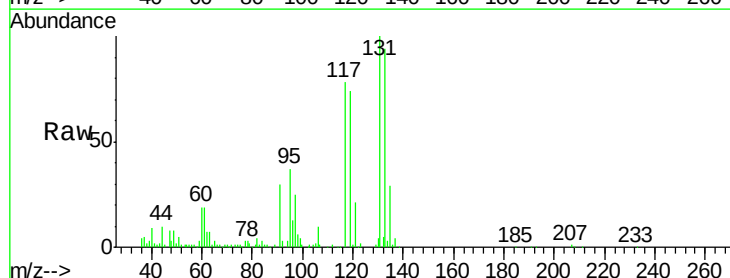
Tgt Ion:131 Resp: 102593

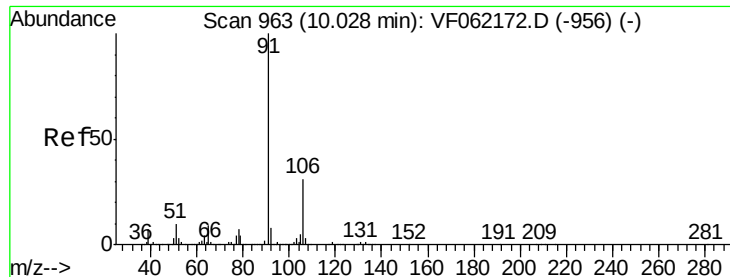
Ion Ratio Lower Upper

131 100

133 94.2 48.4 145.2

119 74.4 36.3 108.9





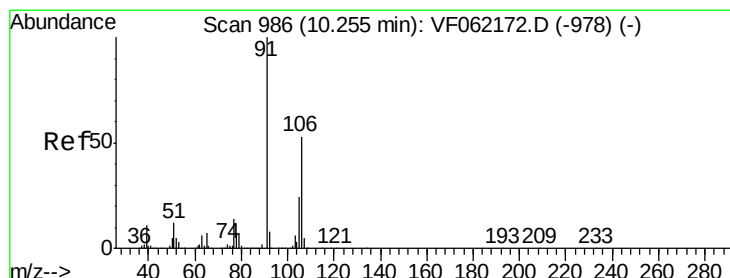
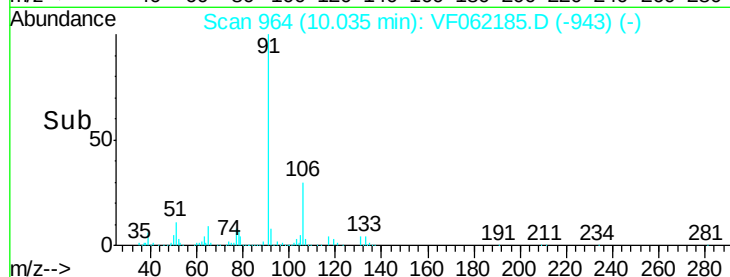
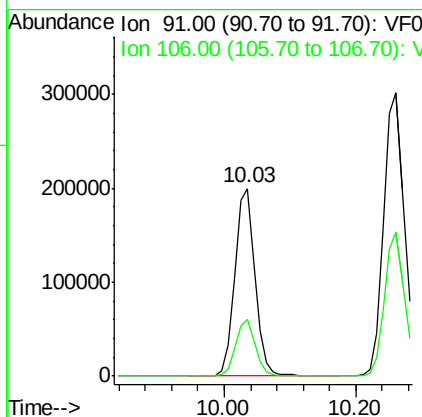
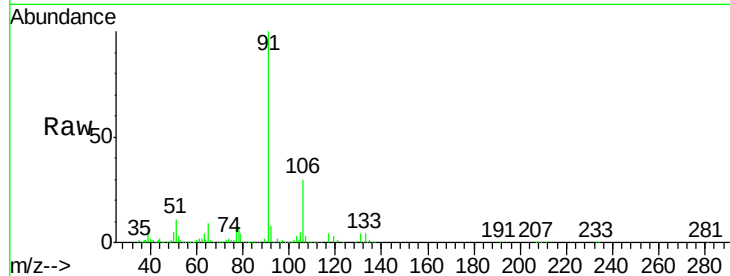
#67
Ethyl Benzene
Concen: 22.540 ug/l
RT: 10.03 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion: 91 Resp: 433236
Ion Ratio Lower Upper
91 100
106 29.9 24.7 37.1

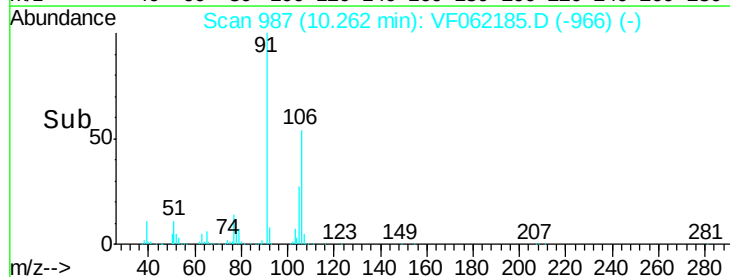
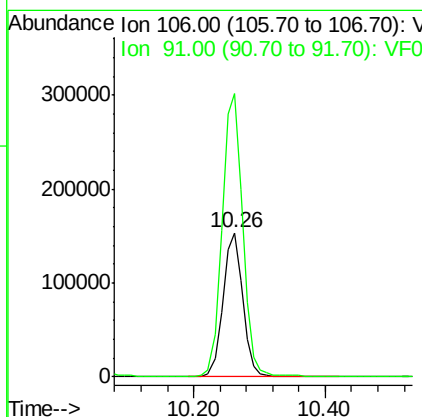
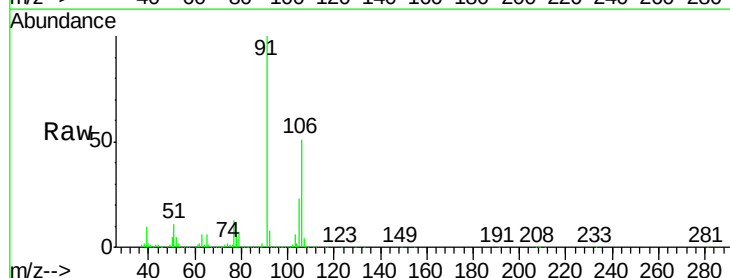
Manual Integrations
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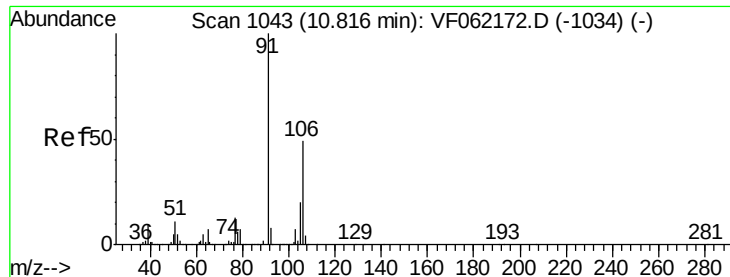
MMDadoda
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#68
m/p-Xylenes
Concen: 45.641 ug/l
RT: 10.26 min Scan# 987
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion: 106 Resp: 322931
Ion Ratio Lower Upper
106 100
91 196.6 151.7 227.5





#69

o-Xylene

Concen: 23.041 ug/l

RT: 10.81 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:106 Resp: 176508

Ion Ratio Lower Upper

106 100

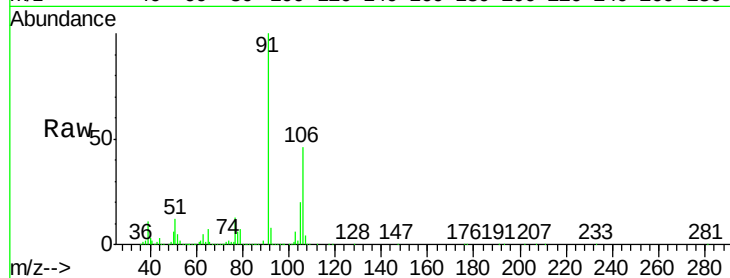
91 218.1 101.9 305.7

Manual Integrations

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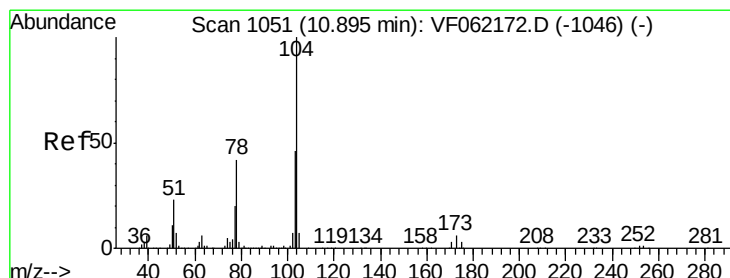
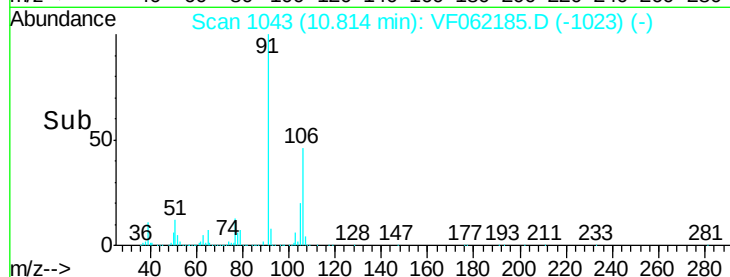
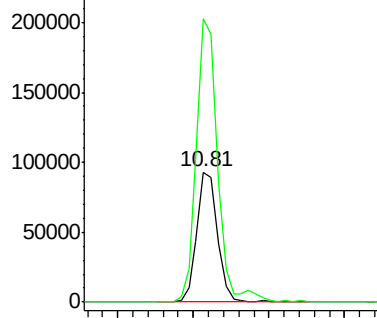
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#70

Styrene

Concen: 22.716 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

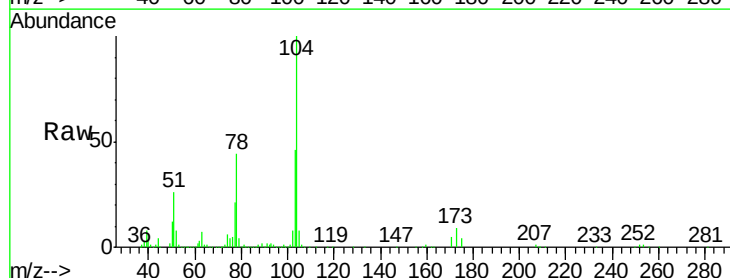
Tgt Ion:104 Resp: 253067

Ion Ratio Lower Upper

104 100

78 43.8 33.7 50.5

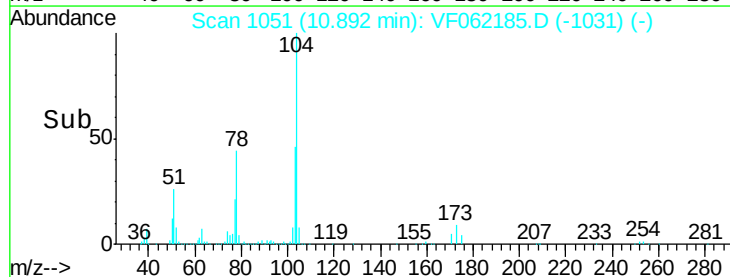
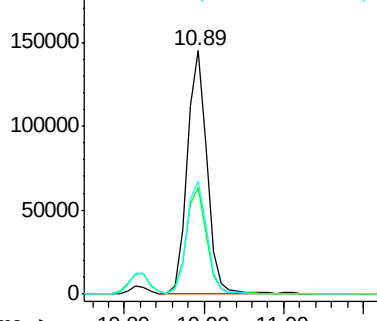
103 46.5 37.2 55.8

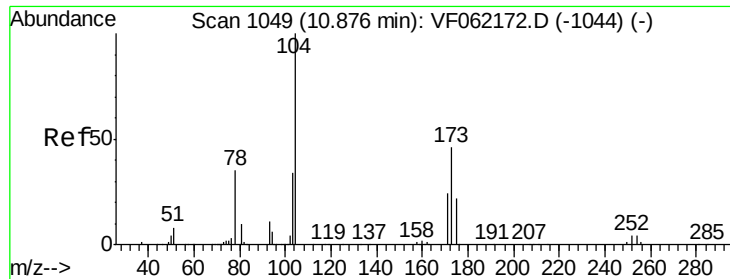


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 23.770 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:173 Resp: 53288

Ion Ratio Lower Upper

173 100

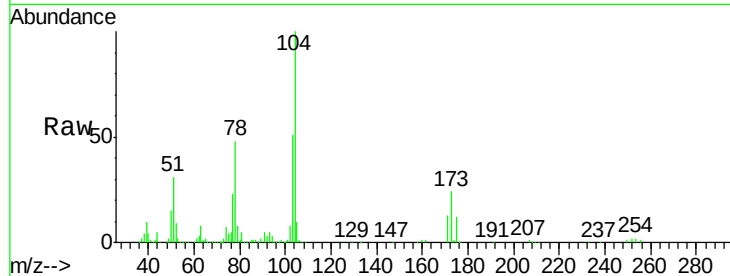
175 50.5 24.3 72.8

254 0.0 6.6 9.8

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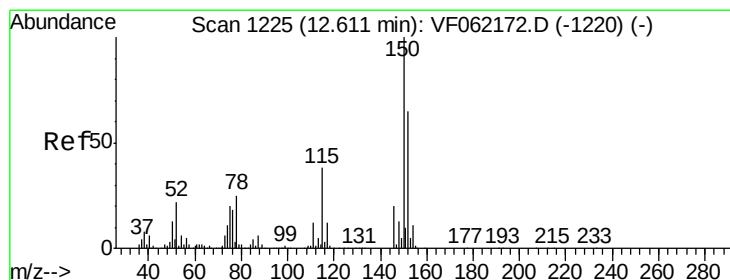
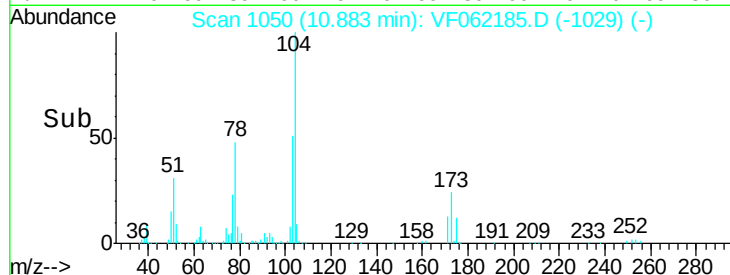
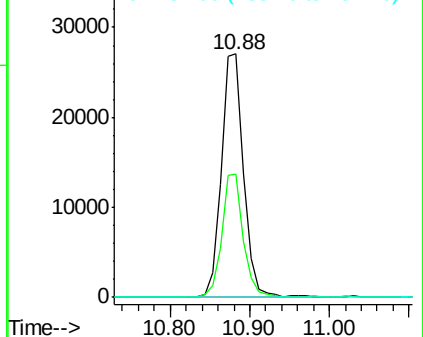
4/17/2019 11:49:31 AM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

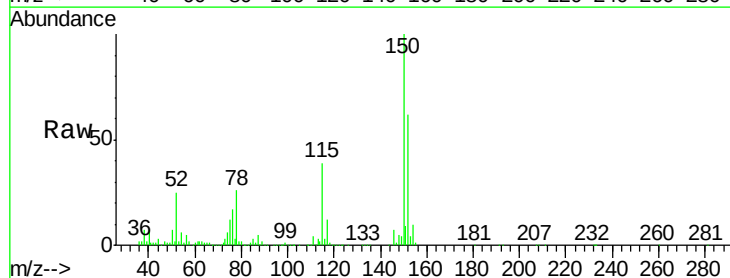
Tgt Ion:152 Resp: 271967

Ion Ratio Lower Upper

152 100

115 62.4 29.0 87.1

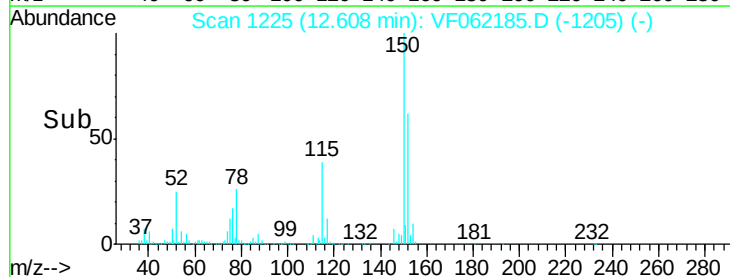
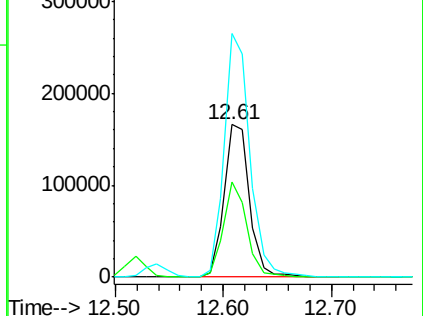
150 160.1 0.0 309.2

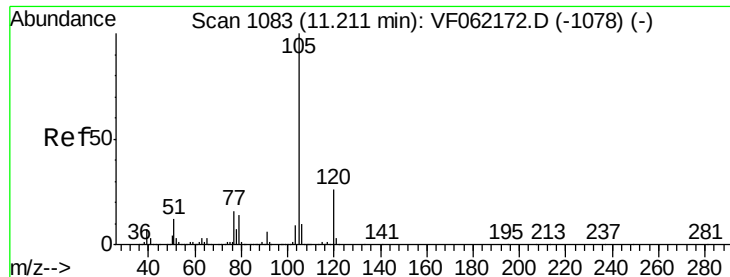


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.614 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:105 Resp: 506407

Ion Ratio Lower Upper

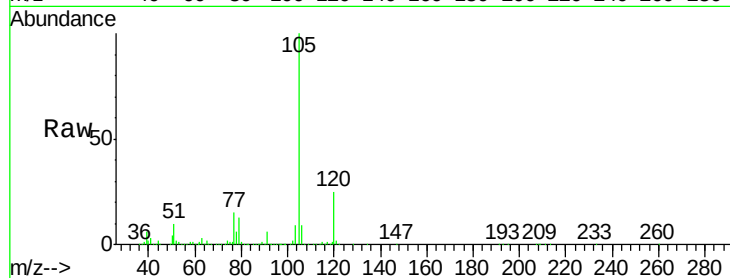
105 100

120 25.3 13.0 38.9

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.22

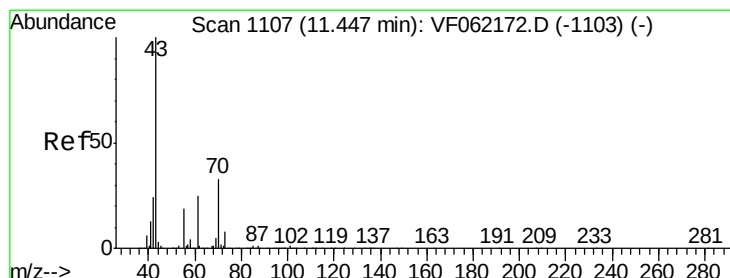
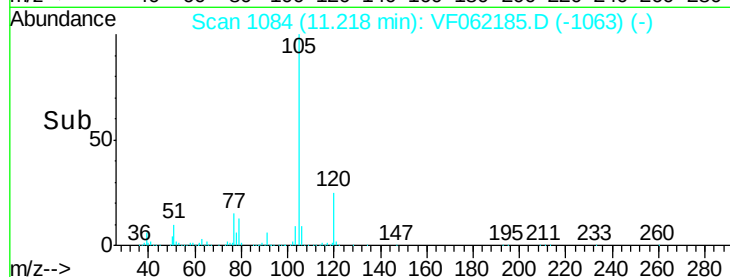
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 20.740 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion: 43 Resp: 124517

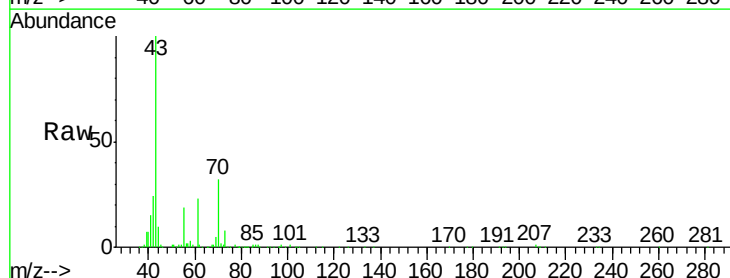
Ion Ratio Lower Upper

43 100

70 32.4 26.6 39.8

55 19.4 15.0 22.6

61 22.9 20.0 30.0



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

11.44

80000

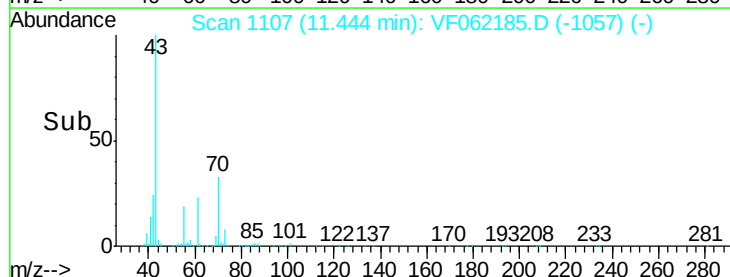
60000

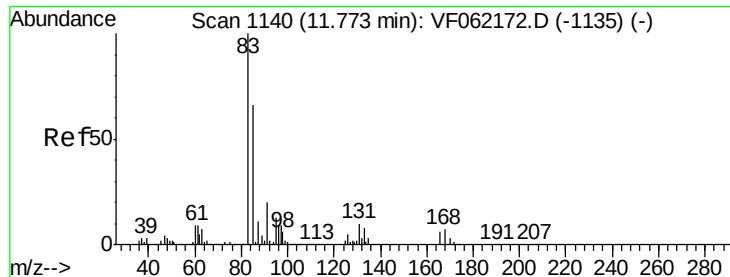
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.447 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

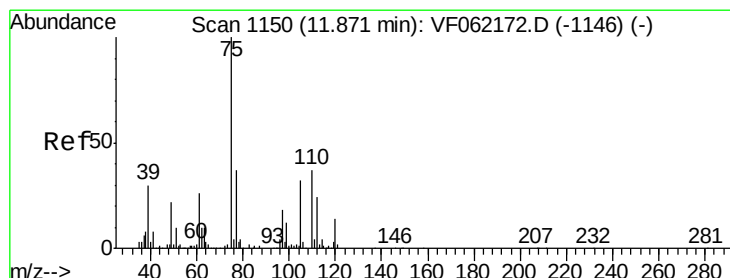
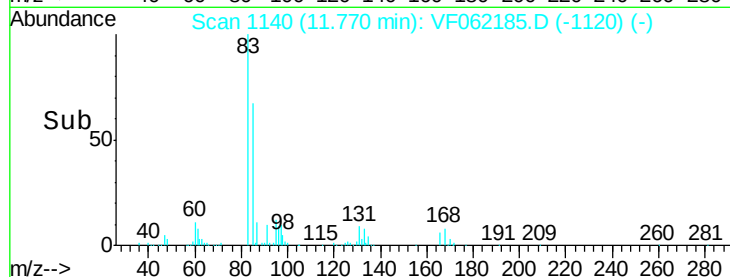
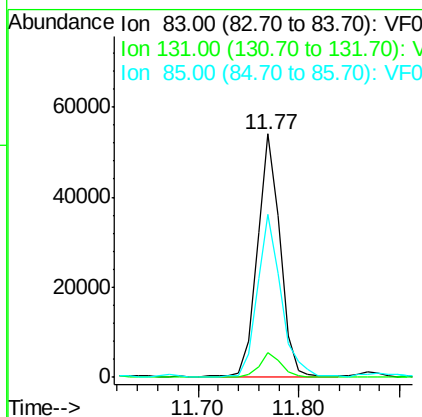
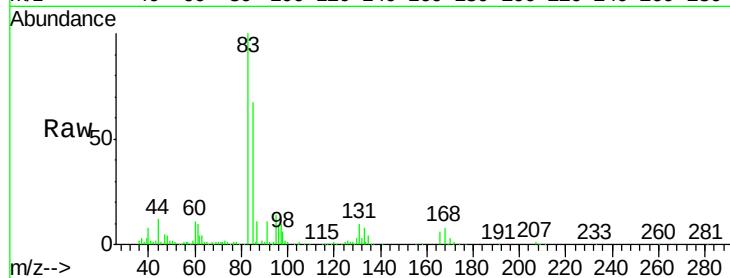
ClientSampleId :

VF0416SBS01

Tot Ion:	83	Resp:	85339
Ion Ratio	Lower	Upper	
83	100		
131	10.0	4.8	14.4
85	66.8	33.2	99.6

Manual Integrations
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4/17/2019 11:49:31 AM



#76

1,2,3-Trichloropropane

Concen: 20.287 ug/l

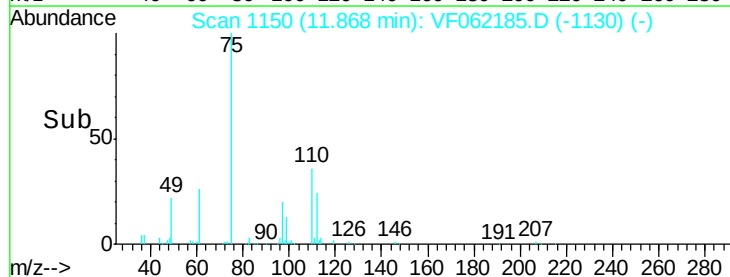
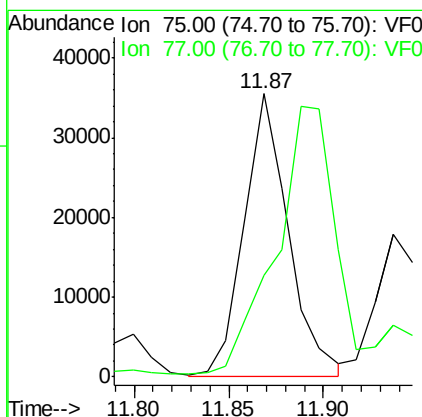
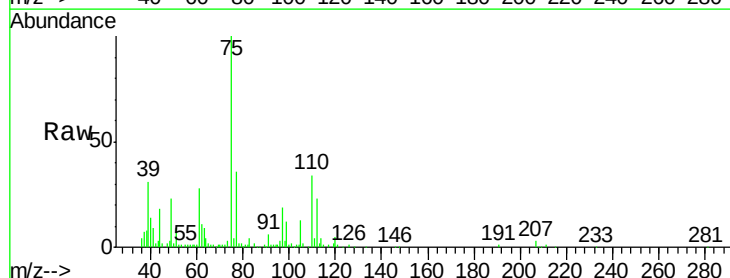
RT: 11.87 min Scan# 1150

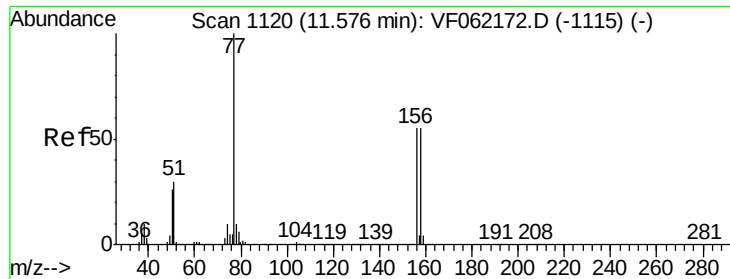
Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	75	Resp:	57422
Ion Ratio	Lower	Upper	
75	100		
77	35.7	18.7	56.1





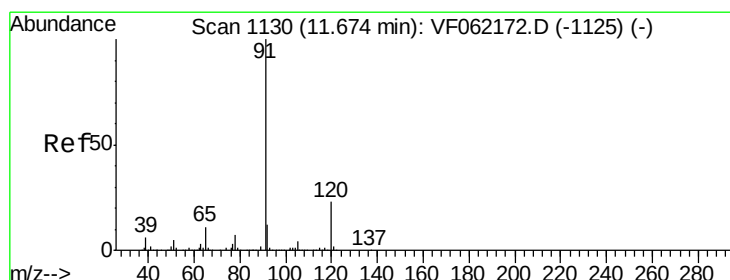
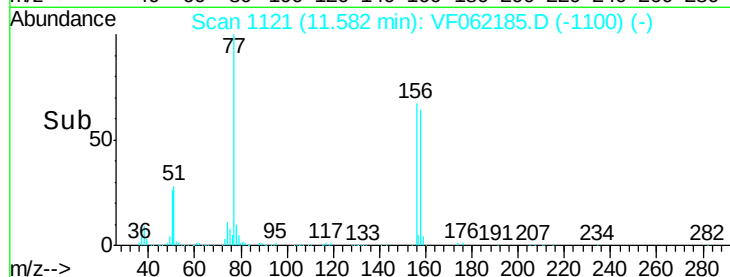
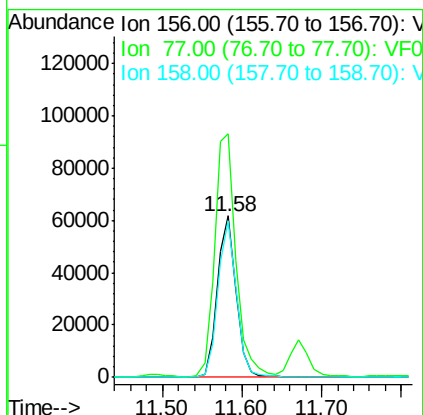
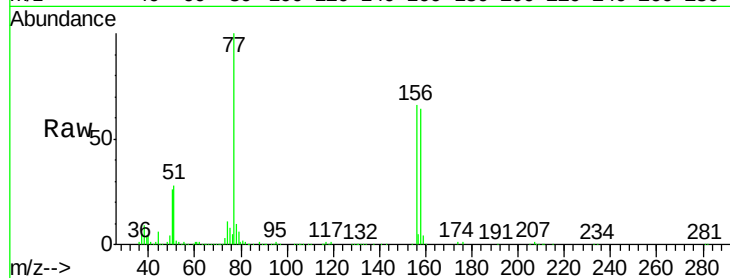
#77
Bromobenzene
Concen: 21.191 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	150.7	91.1	273.4
158	96.7	50.1	150.4

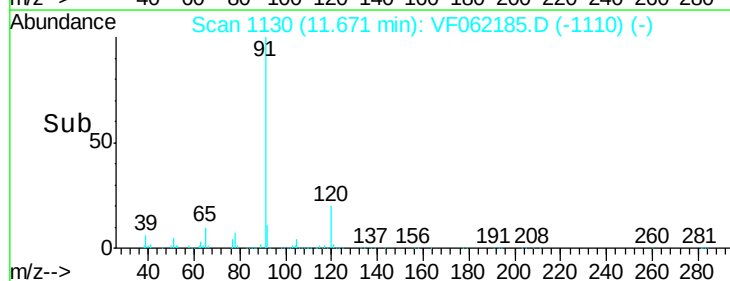
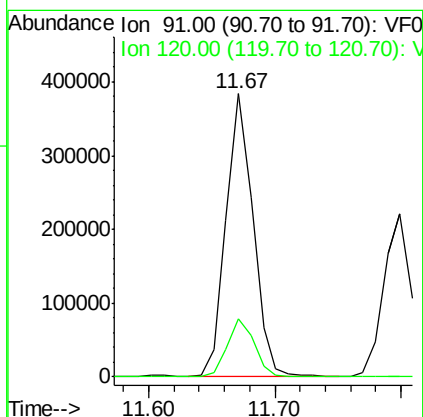
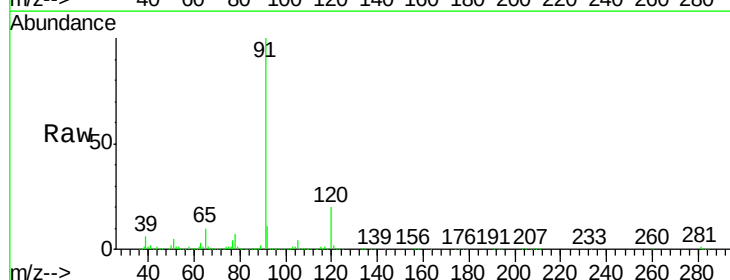
Manual Integrations
APPROVED

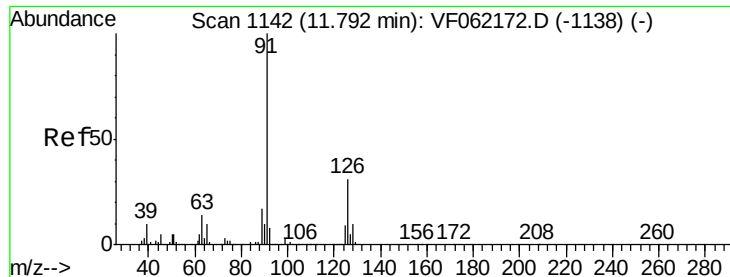
MMDadoda
4/17/2019 11:49:31 AM



#78
n-propylbenzene
Concen: 21.364 ug/l
RT: 11.67 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.4	11.6	34.7





#79

2-Chlorotoluene

Concen: 21.407 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 91 Resp: 336052

Ion Ratio Lower Upper

91 100

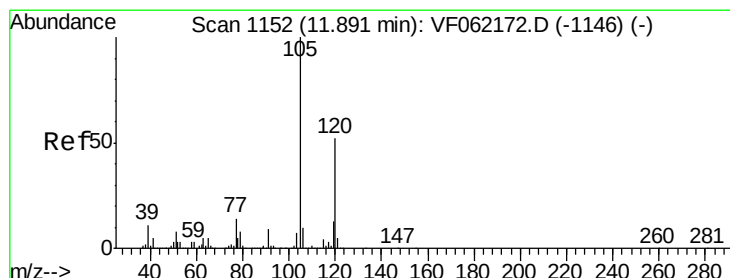
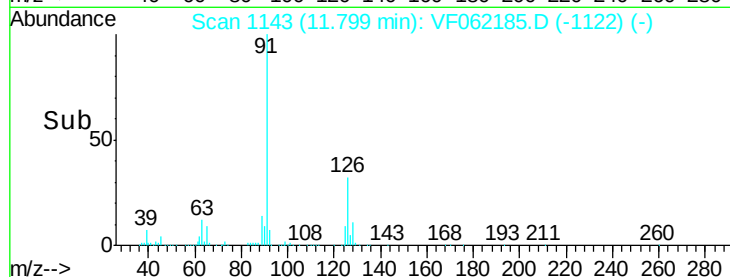
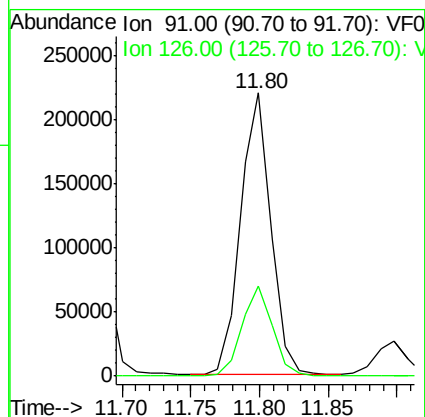
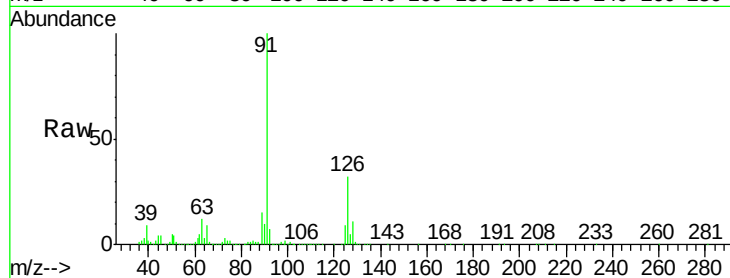
126 31.9 15.6 46.8

Manual Integrations

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MMDadoda

4/17/2019 11:49:31 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.414 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062185.D

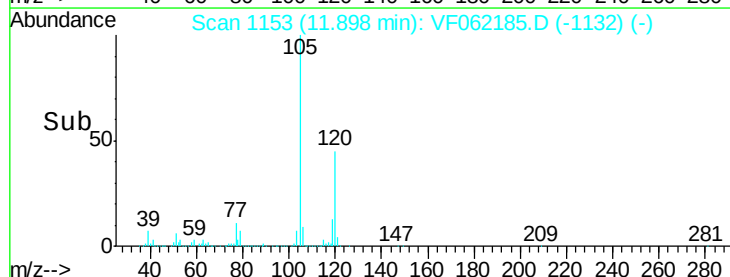
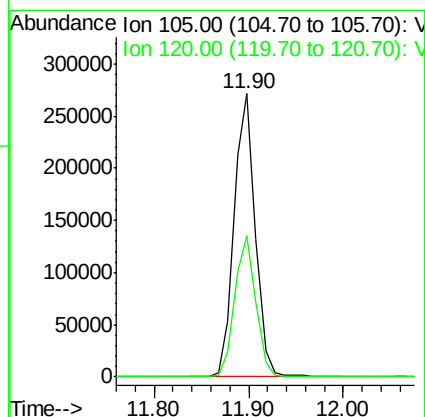
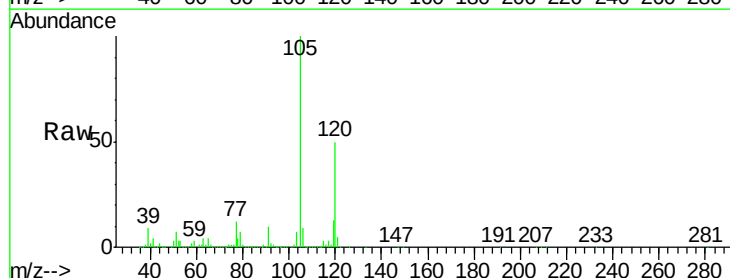
Acq: 16 Apr 2019 19:39

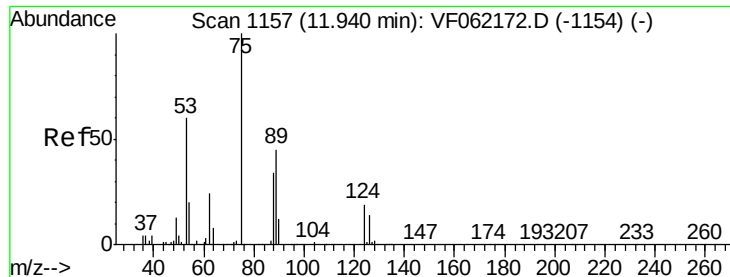
Tgt Ion: 105 Resp: 418459

Ion Ratio Lower Upper

105 100

120 50.1 25.9 77.7





#81

trans-1,4-Dichloro-2-butene

Concen: 20.976 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

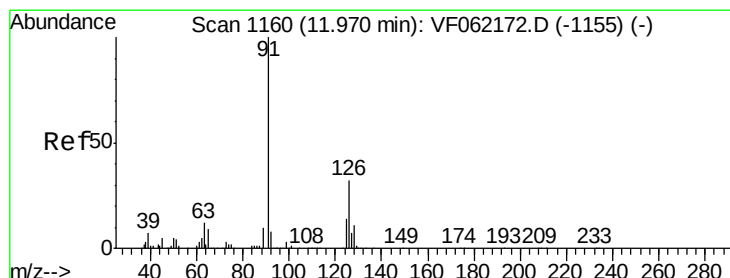
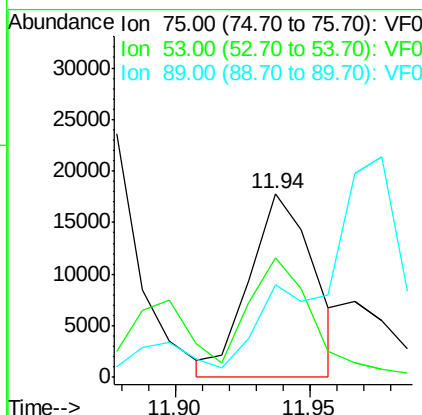
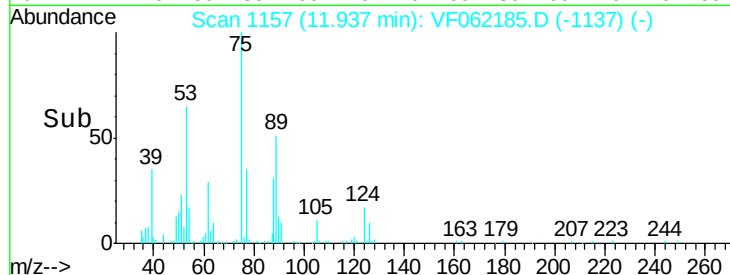
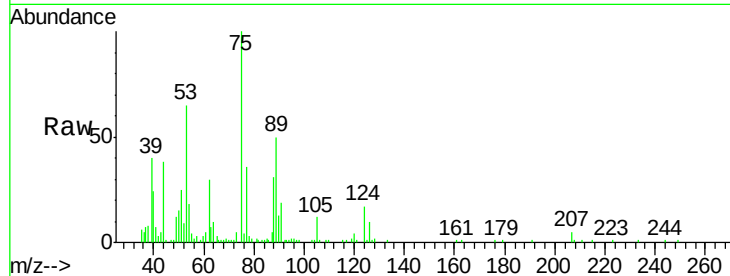
ClientSampleId :

VF0416SBS01

Tot Ion:	75	Resp:	29695
Ion	Ratio	Lower	Upper
75	100		
53	64.7	53.4	80.0
89	50.2	38.7	58.1

Manual Integrations
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4/17/2019 11:49:31 AM



#82

4-Chlorotoluene

Concen: 21.380 ug/l

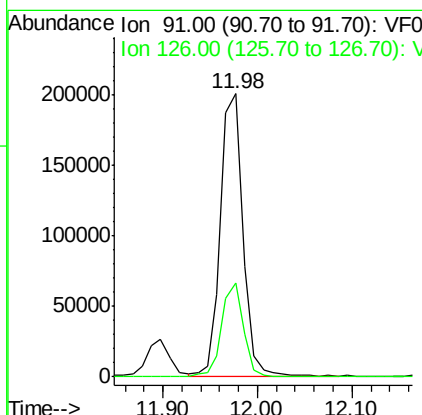
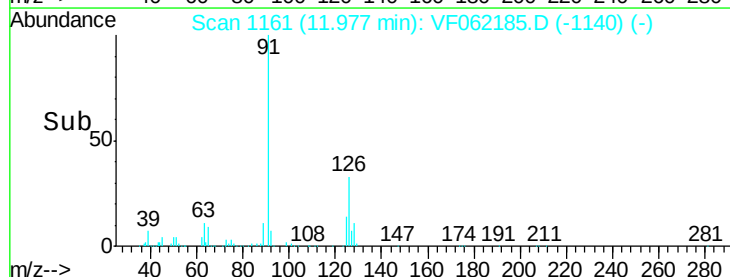
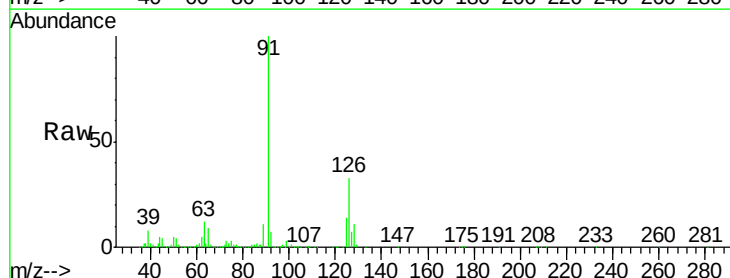
RT: 11.98 min Scan# 1161

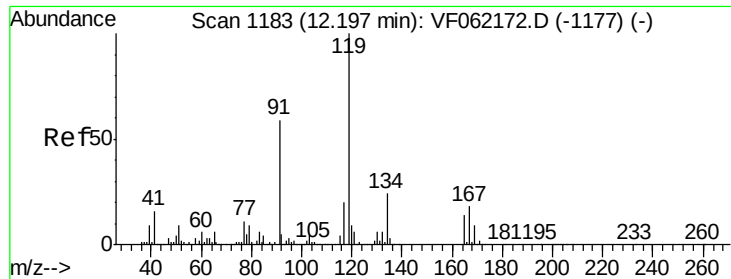
Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	91	Resp:	328916
Ion	Ratio	Lower	Upper
91	100		
126	33.1	15.9	47.7





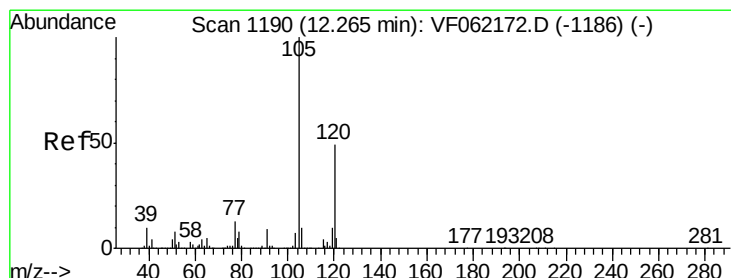
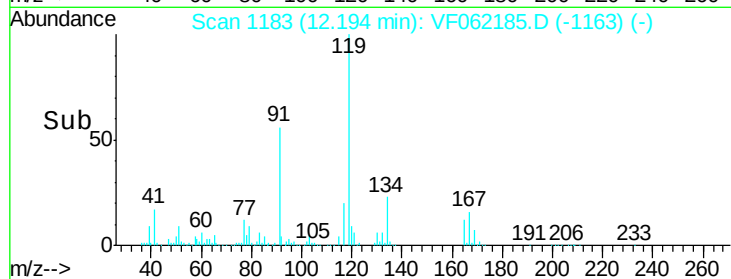
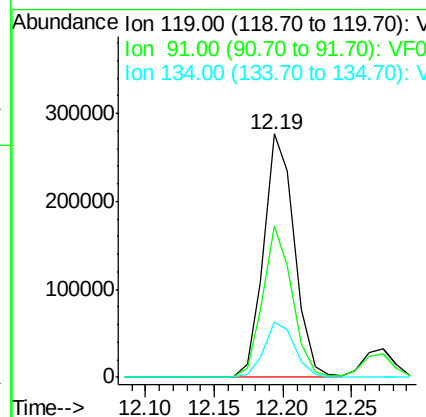
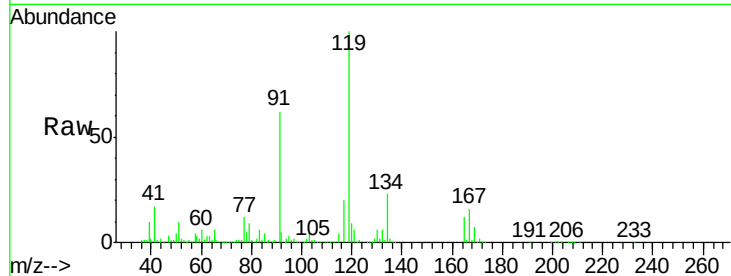
#83
 tert-Butylbenzene
 Concen: 22.243 ug/l
 RT: 12.19 min Scan# 1183
 Delta R.T. -0.00 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.9	29.5	88.5
134	22.6	12.0	36.1

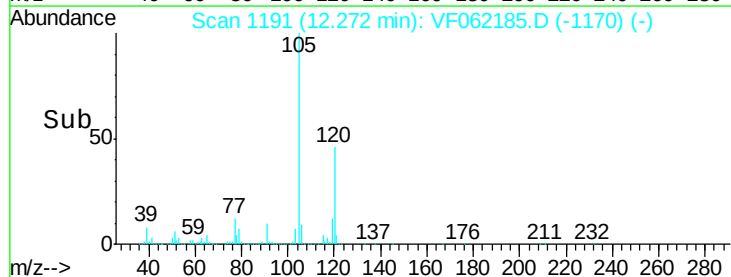
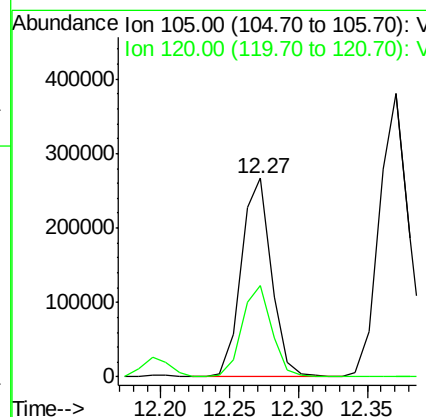
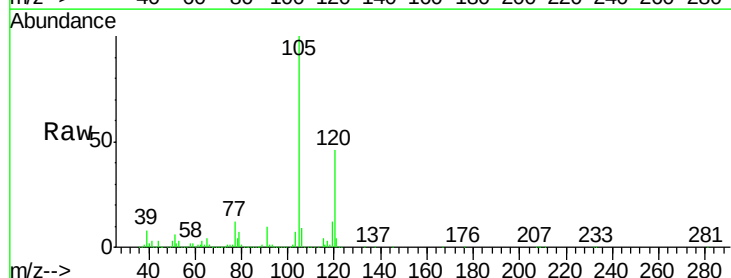
Manual Integrations
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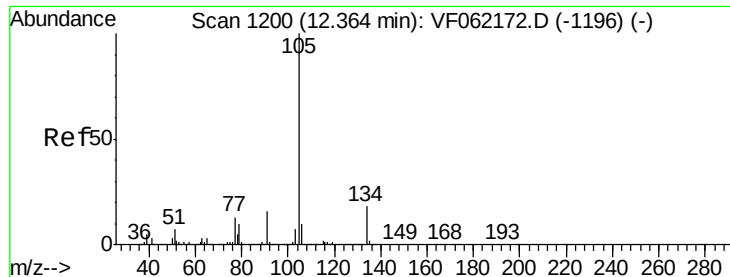
MMDadoda
 4/17/2019 11:49:31 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.456 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	24.7	74.1





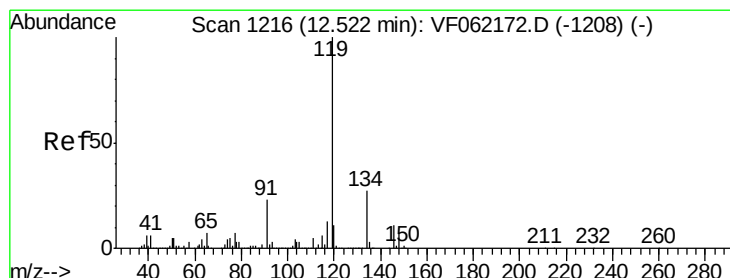
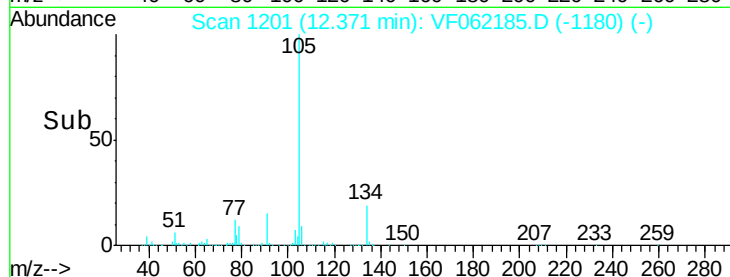
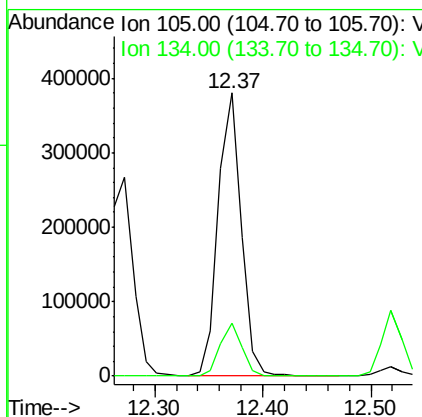
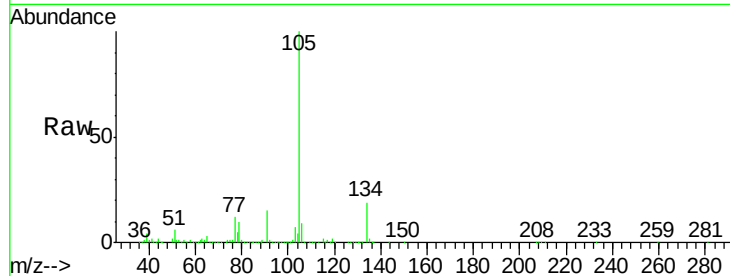
#85
 sec-Butylbenzene
 Concen: 22.140 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	564907		
134	18.8	9.0	27.0	

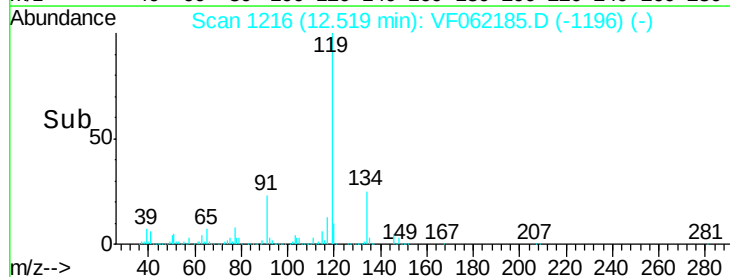
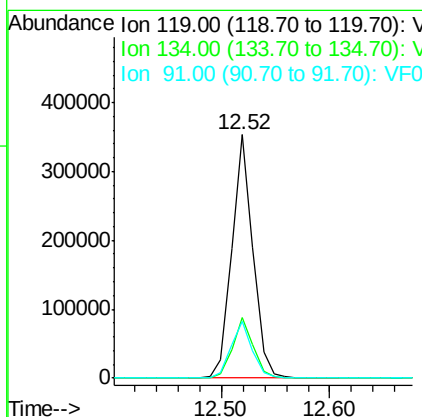
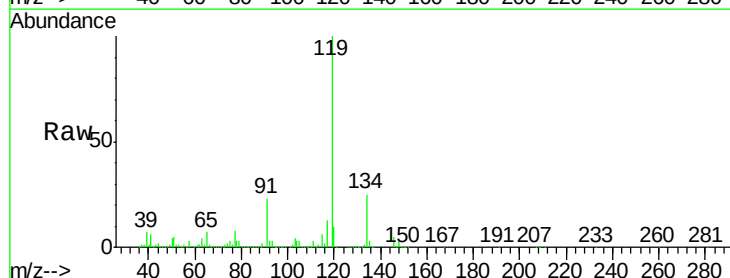
Manual Integrations
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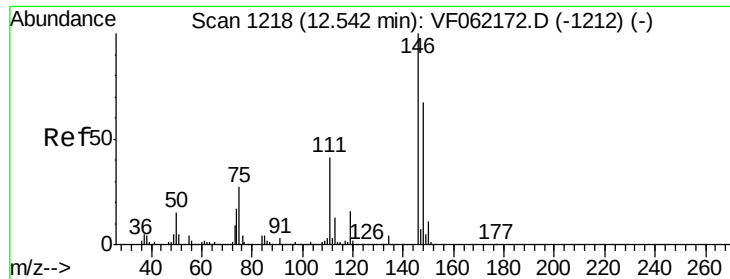
MMDadoda
 4/17/2019 11:49:31 AM



#86
 p-Isopropyltoluene
 Concen: 21.984 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	477872		
134	25.0	13.5	40.5	
91	23.4	11.5	34.5	





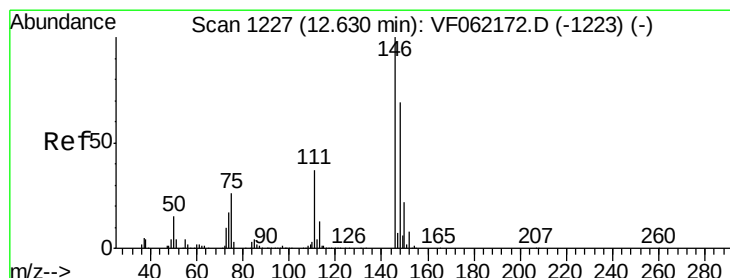
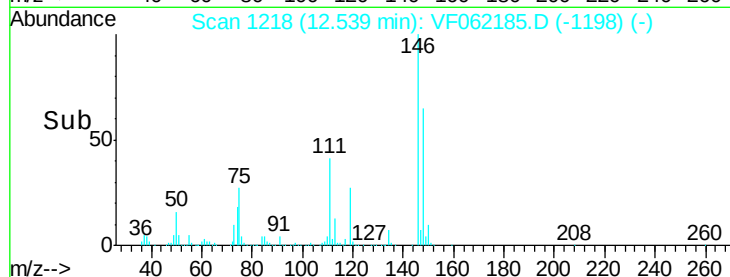
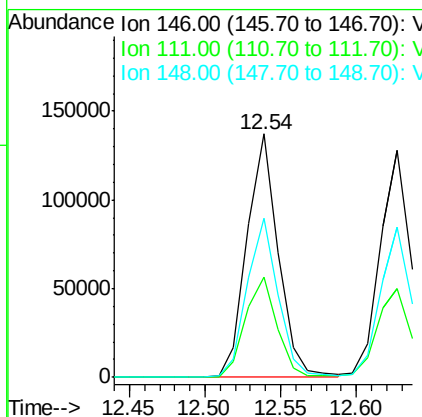
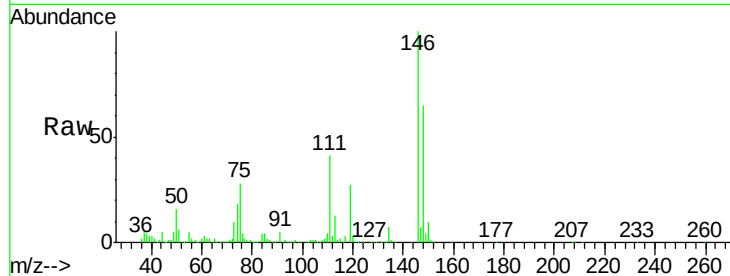
#87
 1,3-Dichlorobenzene
 Concen: 22.296 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.5	61.6
148	65.3	33.6	100.8

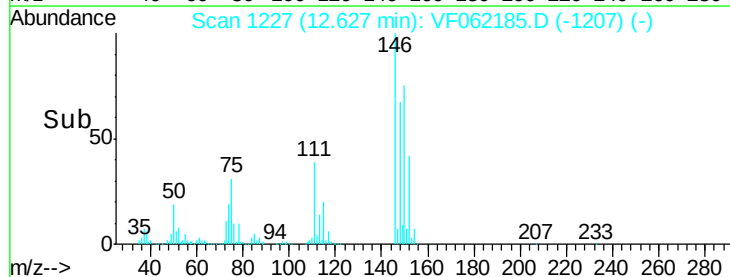
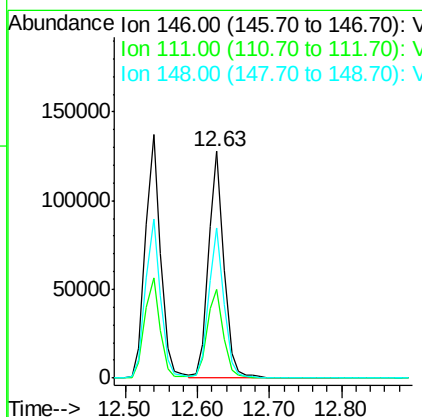
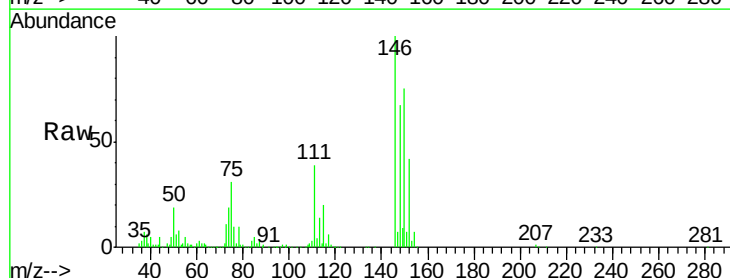
Manual Integrations
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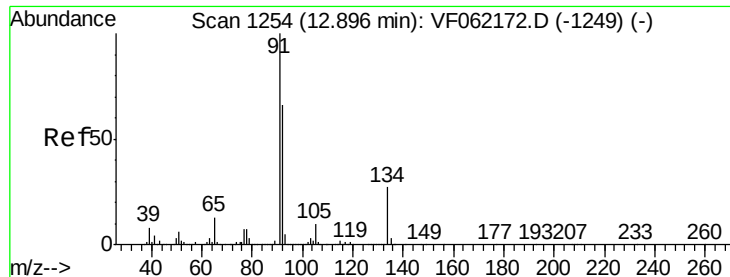
MMDadoda
 4/17/2019 11:49:31 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.771 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.00 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	18.6	55.6
148	66.5	34.3	102.8





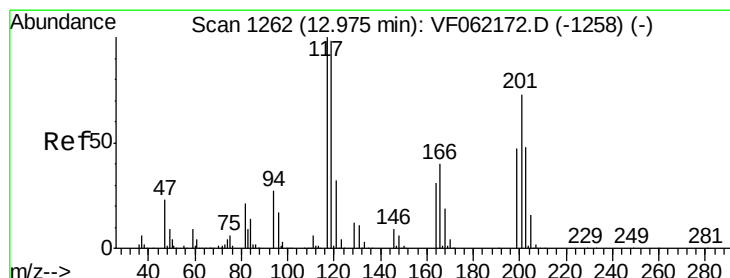
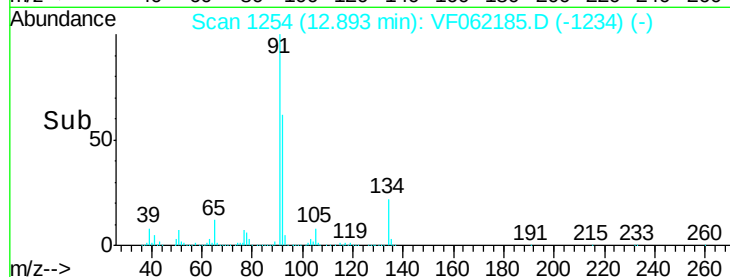
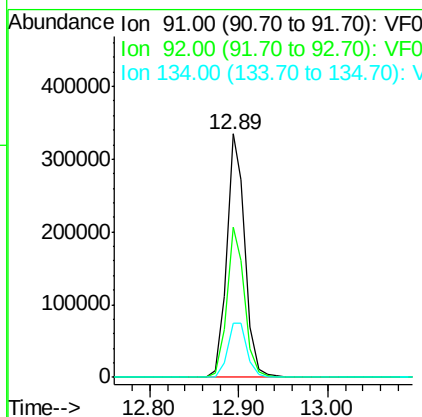
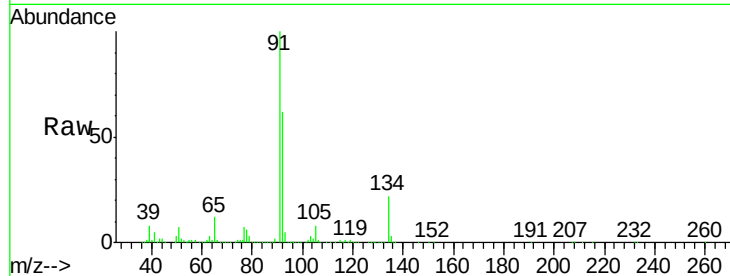
#89
n-Butylbenzene
Concen: 20.982 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.8	32.9	98.6
134	22.1	13.4	40.2

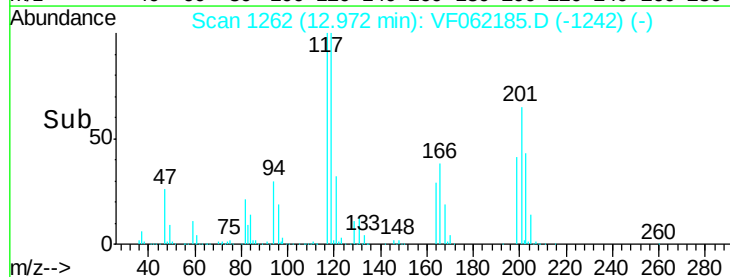
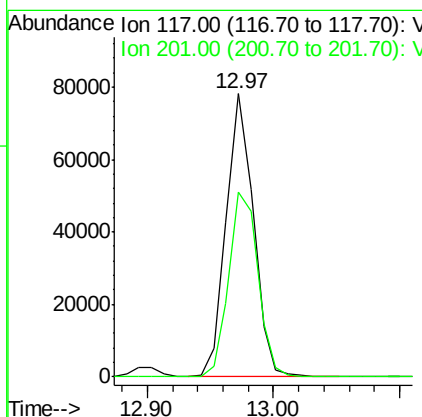
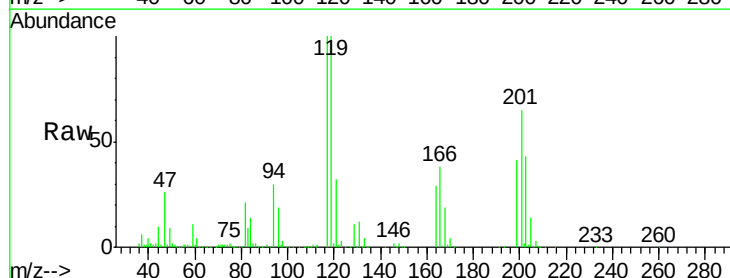
Manual Integrations
APPROVED

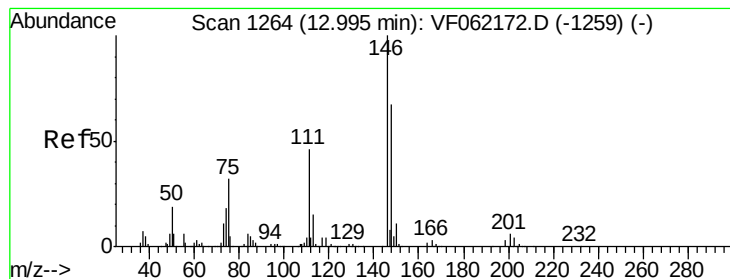
MMDadoda
4/17/2019 11:49:31 AM



#90
Hexachloroethane
Concen: 21.859 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VF062185.D
Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	65.1	36.7	110.1





#91

1,2-Dichlorobenzene

Concen: 21.791 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

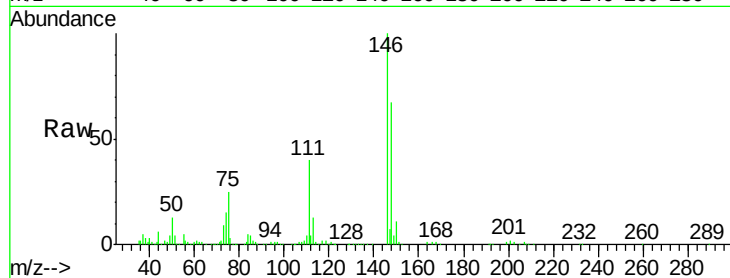
ClientSampleId :

VF0416SBS01

Tot Ion:	146	Resp:	186431
Ion Ratio	Lower	Upper	
146	100		
111	40.2	22.9	68.8
148	67.3	33.6	100.6

Manual Integrations
APPROVED

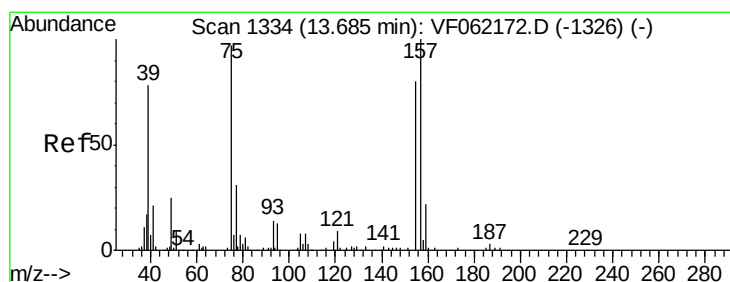
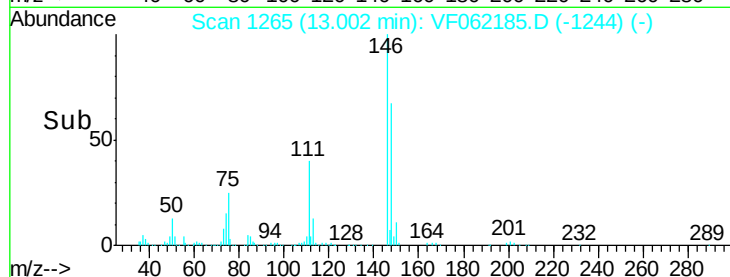
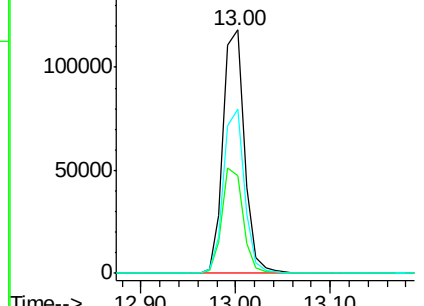
MMDadoda
4/17/2019 11:49:31 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.685 ug/l

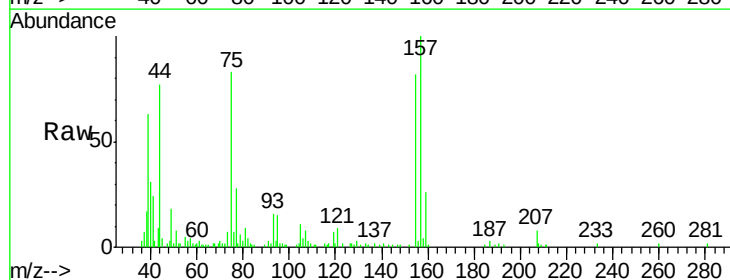
RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

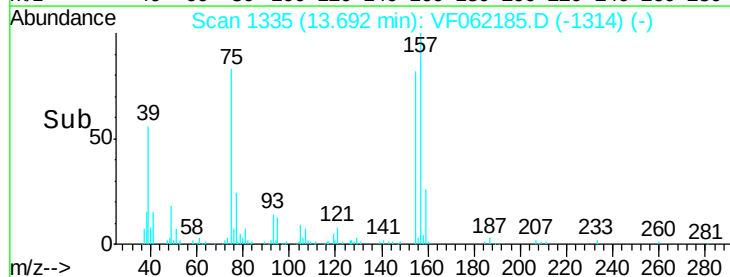
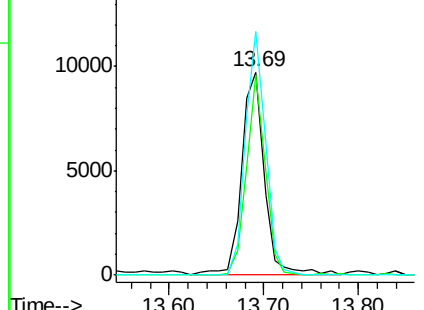
Tgt Ion:	75	Resp:	16301
Ion Ratio	Lower	Upper	
75	100		
155	98.5	41.0	123.0
157	120.0	51.3	154.0

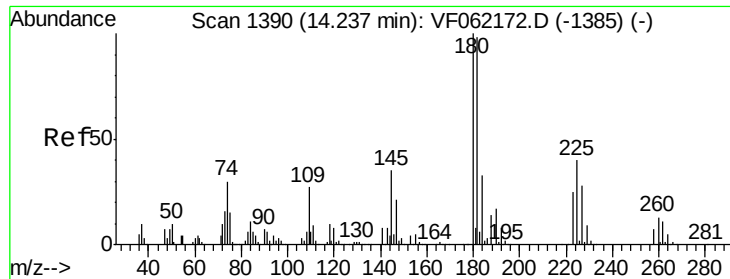


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





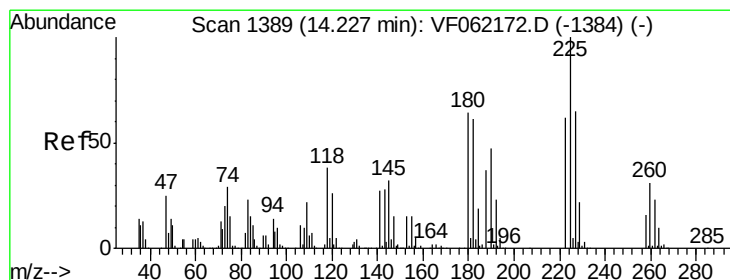
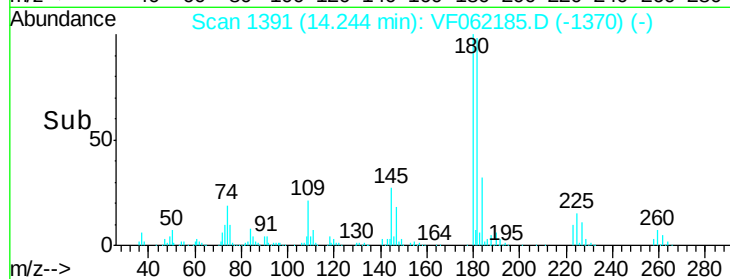
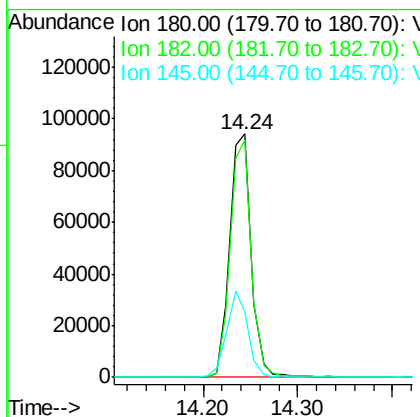
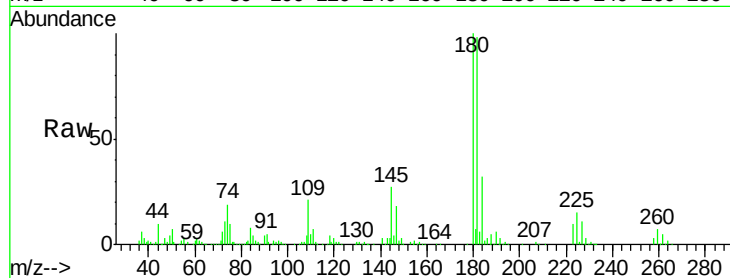
#93
 1,2,4-Trichlorobenzene
 Concen: 23.128 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	148610		
182	97.7	48.8	146.4	
145	26.9	17.3	52.0	

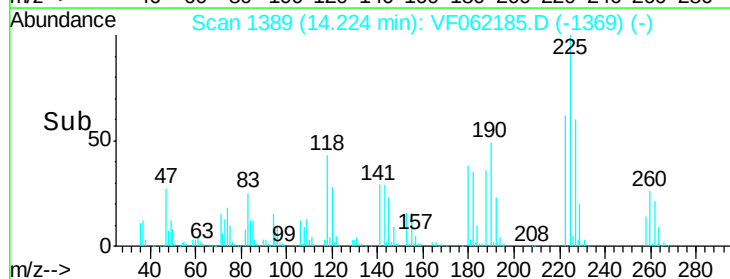
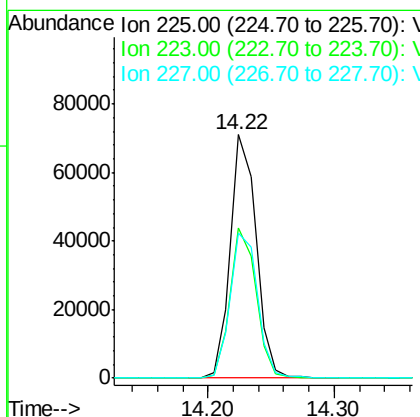
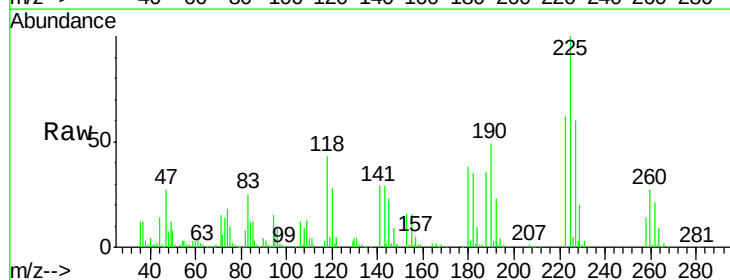
Manual Integrations
 APPROVED

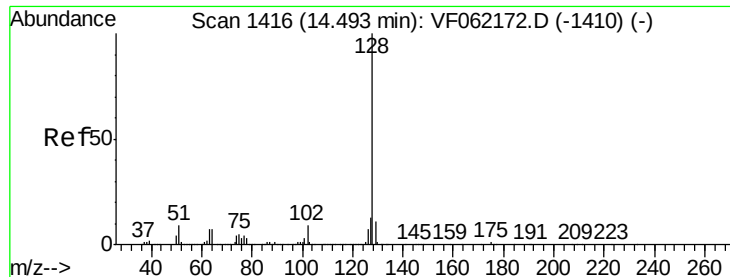
MMDadoda
 4/17/2019 11:49:31 AM



#94
 Hexachlorobutadiene
 Concen: 24.010 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VF062185.D
 Acq: 16 Apr 2019 19:39

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	100542		
223	61.8	30.9	92.7	
227	59.7	32.3	96.9	





#95

Naphthalene

Concen: 21.580 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Instrument :

MSVOA_F

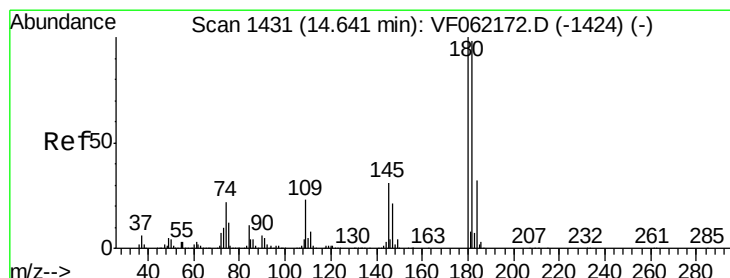
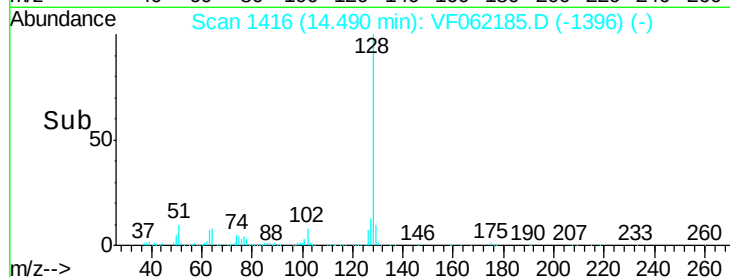
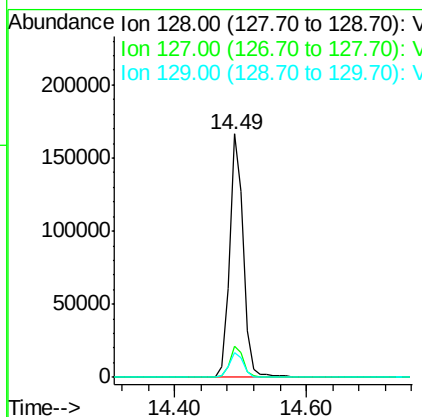
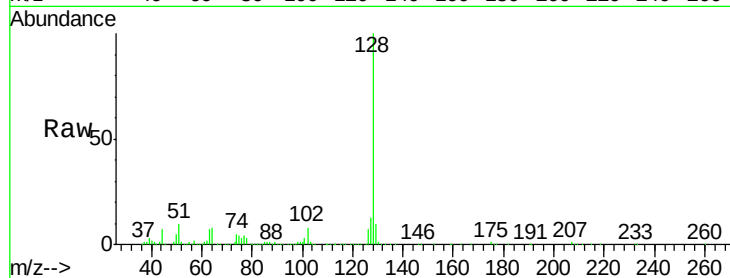
ClientSampleId :

VF0416SBS01

Tot Ion:	128	Resp:	242254
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.3	15.5
129	10.4	9.2	13.8

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:49:31 AM



#96

1,2,3-Trichlorobenzene

Concen: 22.864 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VF062185.D

Acq: 16 Apr 2019 19:39

Tgt Ion:	180	Resp:	136876
Ion Ratio	Lower	Upper	
180	100		
182	98.8	49.0	147.2
145	33.4	15.4	46.2

