

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031619\
 Data File : VF061972.D
 Acq On : 16 Mar 2019 10:14
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 6:18:41 PM

Quant Time: Mar 22 03:26:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:28:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	295978	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	433828	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	370153	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	212156	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	11316	5.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.62%	
35) Dibromofluoromethane	4.11	113	16836	5.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.56%	
50) Toluene-d8	7.55	98	44526	5.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.46%	
62) 4-Bromofluorobenzene	11.42	95	19164	5.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.32%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	0.96	85	16056	5.089	ug/l	97
3) Chloromethane	1.08	50	16941	5.283	ug/l #	88
4) Vinyl Chloride	1.14	62	14075	4.539	ug/l	95
5) Bromomethane	1.33	94	11124	5.106	ug/l #	79
6) Chloroethane	1.38	64	7655	4.782	ug/l	93
7) Trichlorofluoromethane	1.47	101	21522	5.239	ug/l	90
8) Diethyl Ether	1.62	74	4443	4.865	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	16334	5.643	ug/l	92
10) Methyl Iodide	1.89	142	24406m	4.817	ug/l	
11) Tert butyl alcohol	2.58	59	3210	24.622	ug/l #	89
12) 1,1-Dichloroethene	1.79	96	13453	5.385	ug/l #	74
13) Acrolein	2.01	56	3808	27.057	ug/l	95
14) Allyl chloride	2.10	41	15846	4.969	ug/l	94
15) Acrylonitrile	2.94	53	9505	23.975	ug/l	90
16) Acetone	2.23	43	11250	23.515	ug/l	99
17) Carbon Disulfide	1.83	76	35554	4.921	ug/l #	86
18) Methyl Acetate	2.34	43	5950m	5.855	ug/l	
19) Methyl tert-butyl Ether	2.42	73	23334	5.155	ug/l	98
20) Methylene Chloride	2.19	84	14831m	6.021	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	13891	5.329	ug/l	91
22) Diisopropyl ether	2.80	45	37726	4.919	ug/l	98
23) Vinyl Acetate	3.18	43	66996	22.158	ug/l	99
24) 1,1-Dichloroethane	2.87	63	20570	4.612	ug/l	97
25) 2-Butanone	4.35	43	25420	26.828	ug/l #	81
26) 2,2-Dichloropropane	3.60	77	11013	5.235	ug/l	89
27) cis-1,2-Dichloroethene	3.48	96	16045	4.883	ug/l	85
28) Bromochloromethane	3.71	49	9461	5.113	ug/l	92
29) Tetrahydrofuran	4.07	42	10800	26.209	ug/l	96
30) Chloroform	3.85	83	26224	5.190	ug/l	86
31) Cyclohexane	3.68	56	22122	5.063	ug/l	96
32) 1,1,1-Trichloroethane	4.10	97	16617	4.952	ug/l	94
36) 1,1-Dichloropropene	4.28	75	20449	5.220	ug/l	95
37) Ethyl Acetate	4.12	43	9182	5.220	ug/l #	97
38) Carbon Tetrachloride	3.99	117	15138	5.287	ug/l #	94

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Manual Integrations
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	23536	5.117	ug/l	97
40) Benzene	4.63	78	53917	5.194	ug/l	99
41) Methacrylonitrile	4.74	41	5488	5.839	ug/l	95
42) 1,2-Dichloroethane	4.94	62	14042	5.434	ug/l	97
43) Isopropyl Acetate	6.97	43	11895	5.715	ug/l #	87
44) Trichloroethene	5.50	130	17371	5.463	ug/l	97
45) 1,2-Dichloropropane	6.24	63	12435	5.062	ug/l	94
46) Dibromomethane	6.08	93	6491	4.441	ug/l	94
47) Bromodichloromethane	6.39	83	17389	5.047	ug/l	97
48) Methyl methacrylate	6.72	41	7637	5.678	ug/l #	91
49) 1,4-Dioxane	6.71	88	1077	90.014	ug/l #	53
51) 4-Methyl-2-Pentanone	8.26	43	39554	26.763	ug/l #	86
52) Toluene	7.62	92	35452	5.589	ug/l	96
53) t-1,3-Dichloropropene	8.28	75	15385	5.289	ug/l	95
54) cis-1,3-Dichloropropene	7.30	75	18259	4.811	ug/l	89
55) 1,1,2-Trichloroethane	8.50	97	9141	5.164	ug/l #	92
56) Ethyl methacrylate	8.61	69	10611	5.273	ug/l	96
57) 1,3-Dichloropropane	8.85	76	14676	4.970	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.29	63	8881	24.365	ug/l	94
59) 2-Hexanone	9.49	43	29931	27.984	ug/l	92
60) Dibromochloromethane	8.71	129	12458	5.069	ug/l	97
61) 1,2-Dibromoethane	8.98	107	9708	5.113	ug/l	94
64) Tetrachloroethene	8.14	164	15224	5.658	ug/l	94
65) Chlorobenzene	9.80	112	36428	5.286	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.93	131	12787	4.787	ug/l	83
67) Ethyl Benzene	9.90	91	65071	5.515	ug/l	98
68) m/p-Xylenes	10.12	106	48636	10.959	ug/l	92
69) o-Xylene	10.72	106	25175	5.301	ug/l	98
70) Styrene	10.78	104	34789	5.288	ug/l	97
71) Bromoform	10.77	173	6900	5.107	ug/l	93
73) Isopropylbenzene	11.12	105	74651	5.093	ug/l	93
74) N-amyl acetate	11.38	43	15212	4.529	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.69	83	12581	5.200	ug/l	87
76) 1,2,3-Trichloropropane	11.79	75	8309	4.912	ug/l	81
77) Bromobenzene	11.49	156	17626	5.193	ug/l	95
78) n-propylbenzene	11.59	91	92614	5.495	ug/l	100
79) 2-Chlorotoluene	11.72	91	50262	5.284	ug/l	96
80) 1,3,5-Trimethylbenzene	11.82	105	64953	5.486	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.87	75	3017m	4.031	ug/l	
82) 4-Chlorotoluene	11.90	91	51090	5.311	ug/l	95
83) tert-Butylbenzene	12.13	119	62780	5.070	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	63688	5.370	ug/l	96
85) sec-Butylbenzene	12.30	105	89364	5.342	ug/l	100
86) p-Isopropyltoluene	12.46	119	72815	5.216	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	36660	5.495	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	34074	5.307	ug/l	85
89) n-Butylbenzene	12.85	91	66459	5.067	ug/l	96
90) Hexachloroethane	12.91	117	14632	4.593	ug/l	94
91) 1,2-Dichlorobenzene	12.94	146	31769	5.142	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	1858	4.786	ug/l	82

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MSVOA_F
ClientSampleId :
VSTDICC005

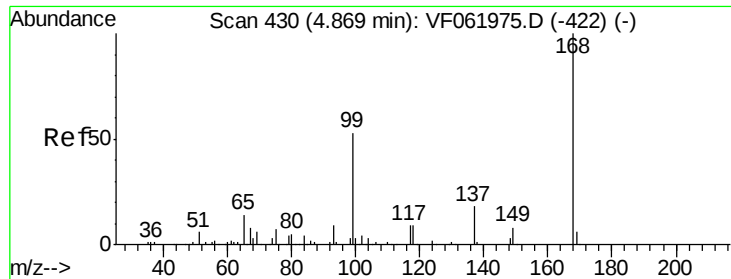
Manual Integrations
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QLast Update : Fri Mar 22 02:28:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	22006	5.115	ug/l	96
94) Hexachlorobutadiene	14.19	225	14836	5.194	ug/l	90
95) Naphthalene	14.45	128	36575	4.726	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	18335	4.632	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 295978

Ion Ratio Lower Upper

168 100

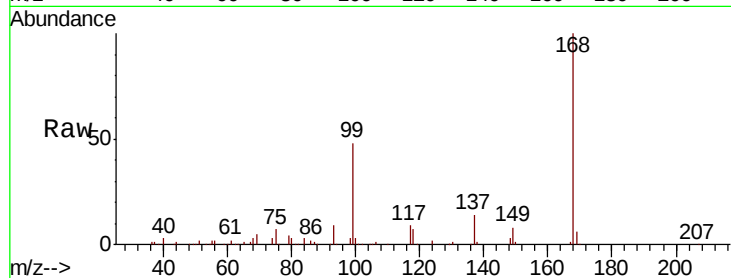
99 48.3 42.4 63.6

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

120000

100000

80000

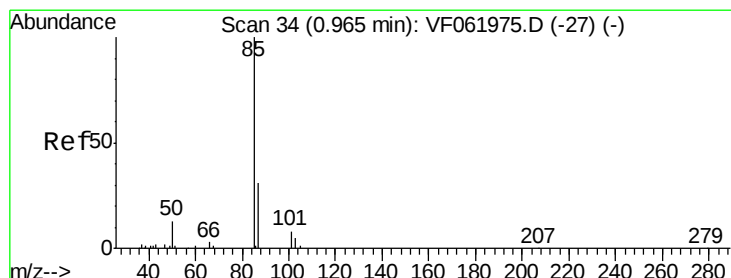
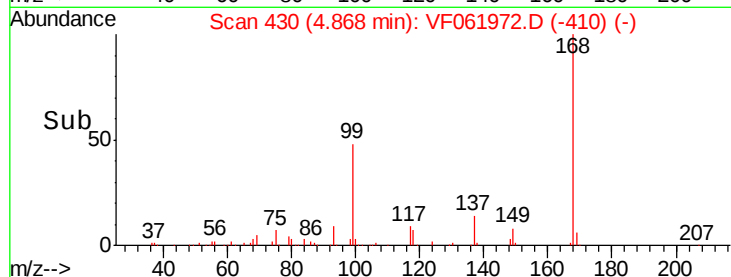
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 5.089 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061972.D

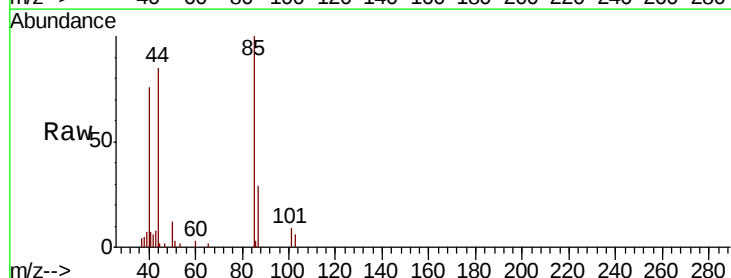
Acq: 16 Mar 2019 10:14

Tgt Ion: 85 Resp: 16056

Ion Ratio Lower Upper

85 100

87 29.1 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

6000

5000

4000

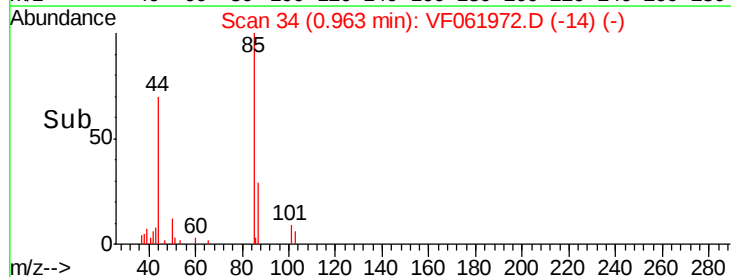
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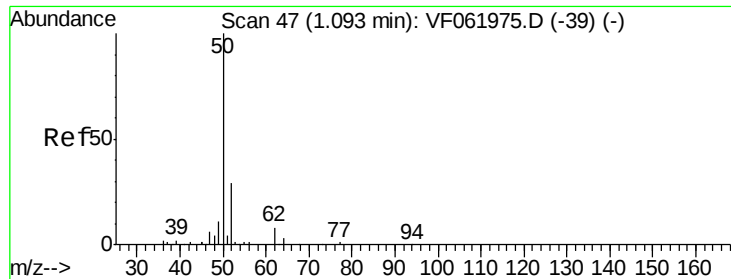
2000

1000

0

Time-->





#3

Chloromethane

Concen: 5.283 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 16941

Ion Ratio Lower Upper

50 100

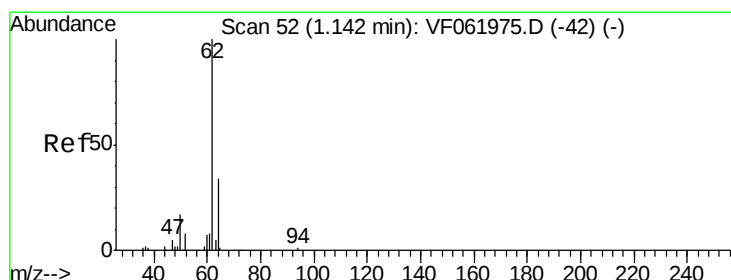
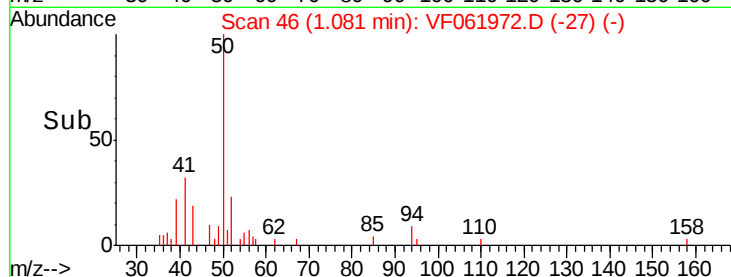
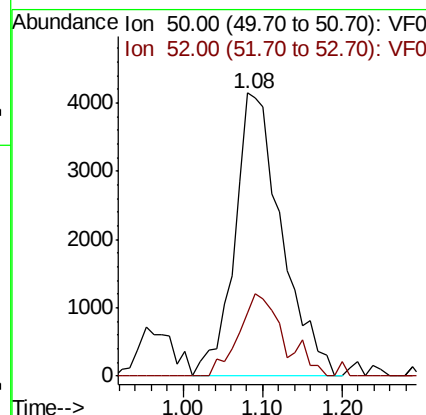
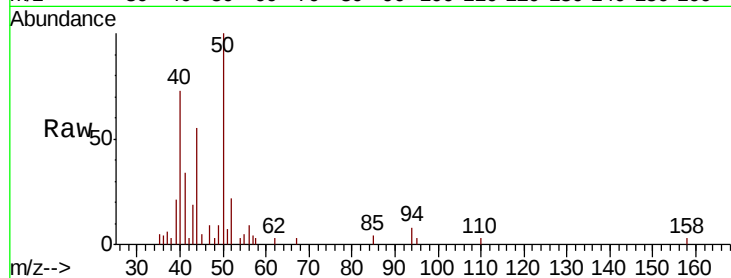
52 22.2 22.6 34.0#

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.539 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061972.D

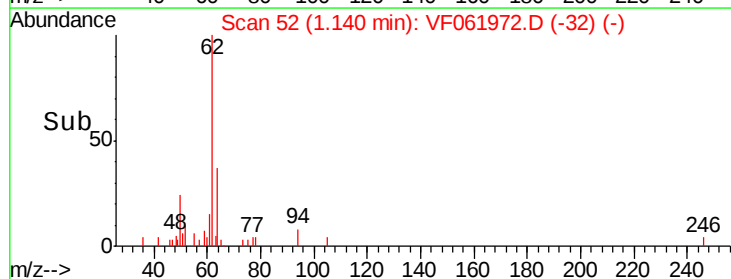
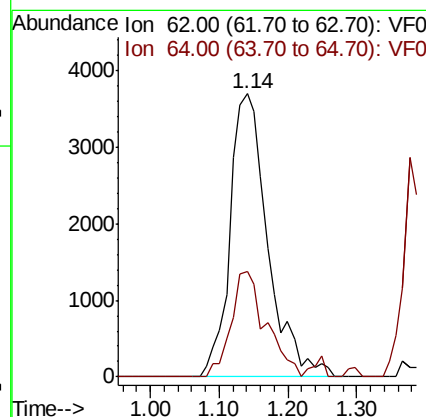
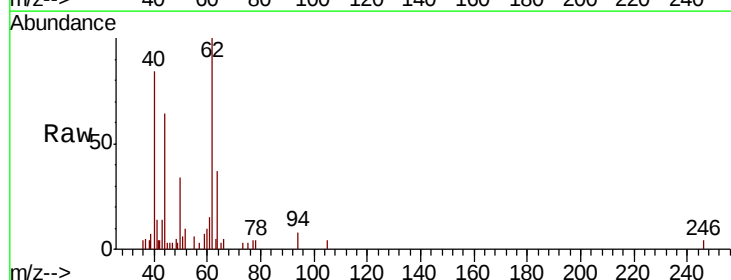
Acq: 16 Mar 2019 10:14

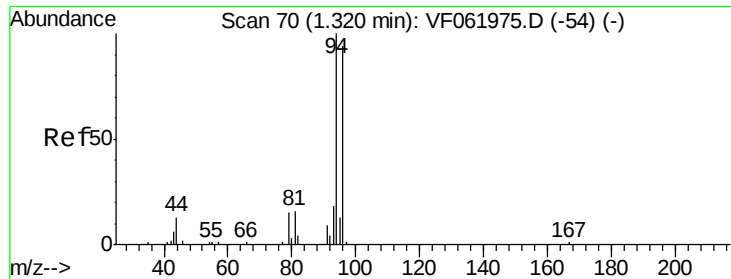
Tgt Ion: 62 Resp: 14075

Ion Ratio Lower Upper

62 100

64 37.3 27.4 41.2





#5

Bromomethane

Concen: 5.106 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 11124

Ion Ratio Lower Upper

94 100

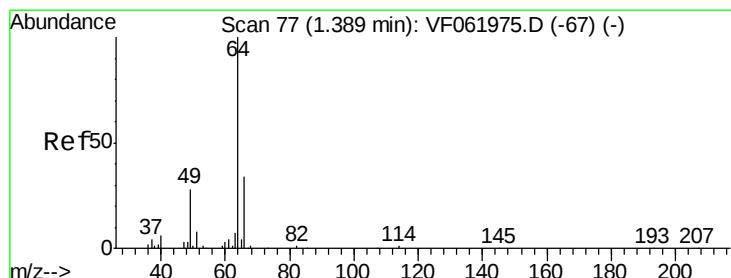
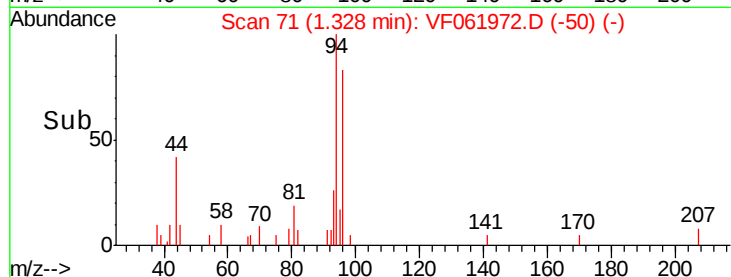
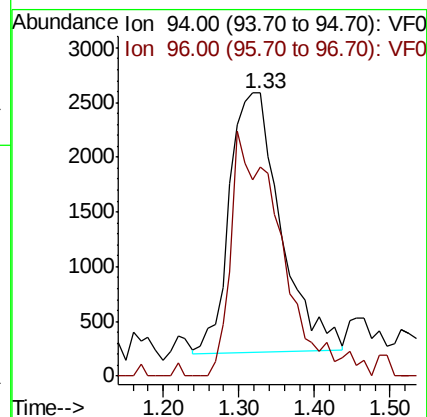
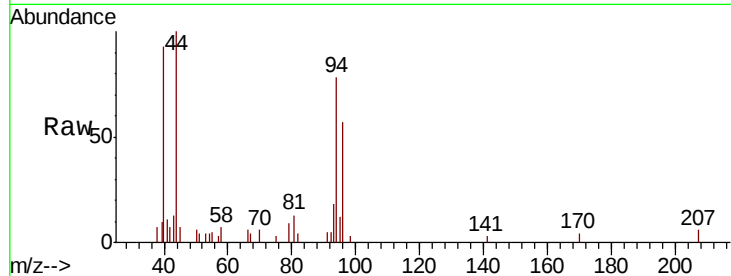
96 73.7 75.0 112.6#

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#6

Chloroethane

Concen: 4.782 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061972.D

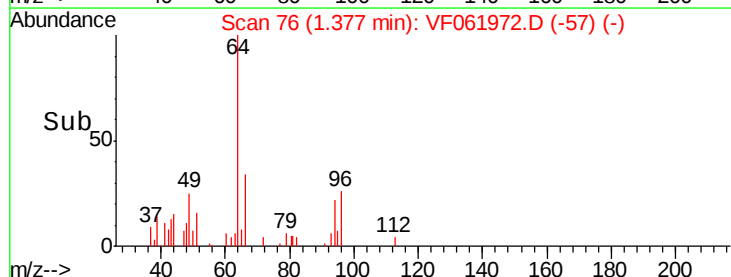
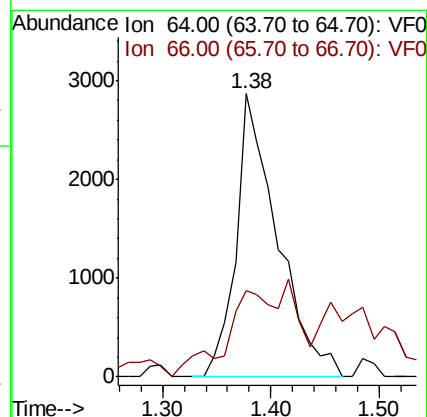
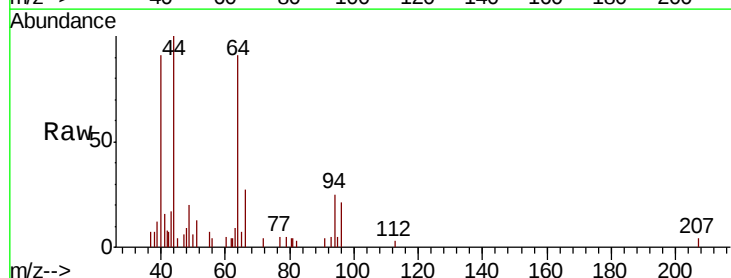
Acq: 16 Mar 2019 10:14

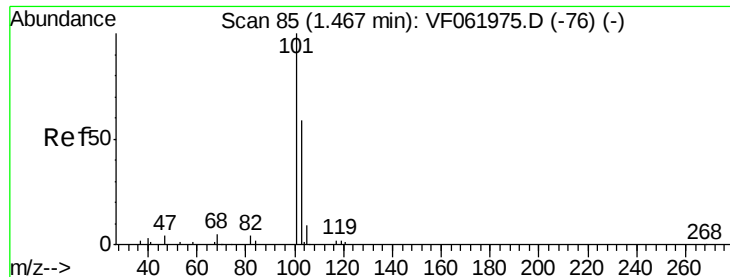
Tgt Ion: 64 Resp: 7655

Ion Ratio Lower Upper

64 100

66 30.3 27.6 41.4





#7

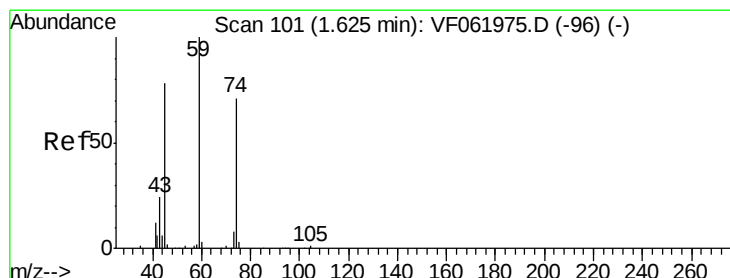
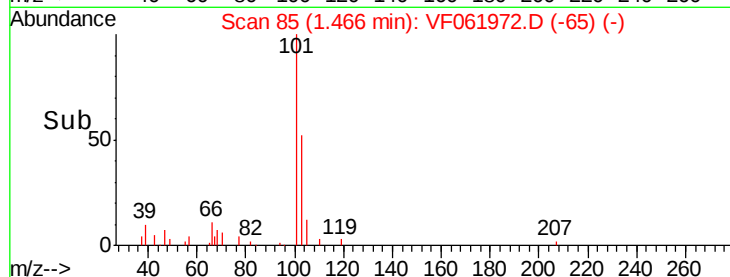
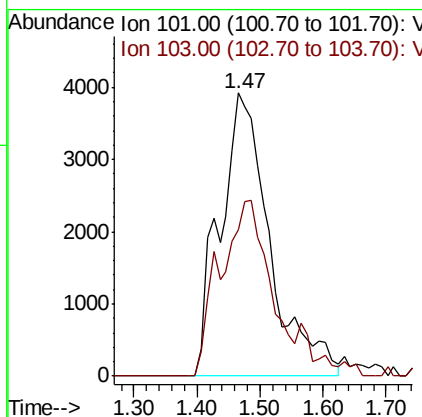
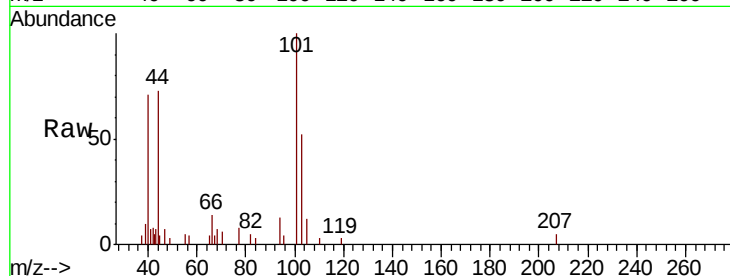
Trichlorofluoromethane
Concen: 5.239 ug/l
RT: 1.47 min Scan# 85
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

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ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	51.8	47.3	70.9

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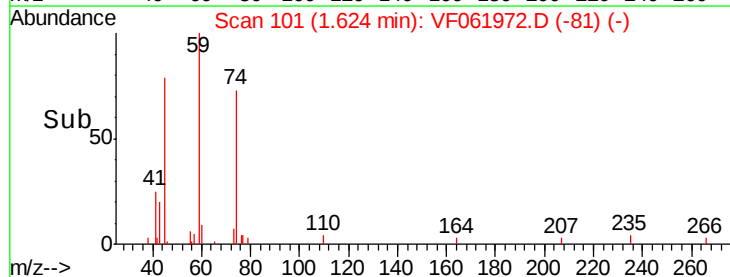
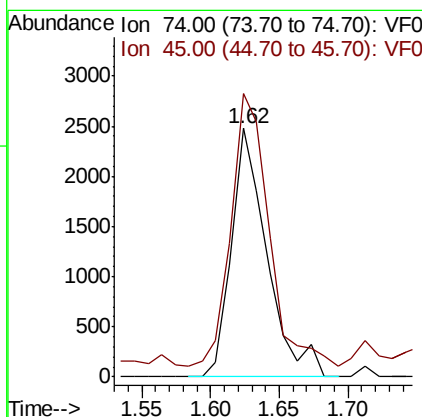
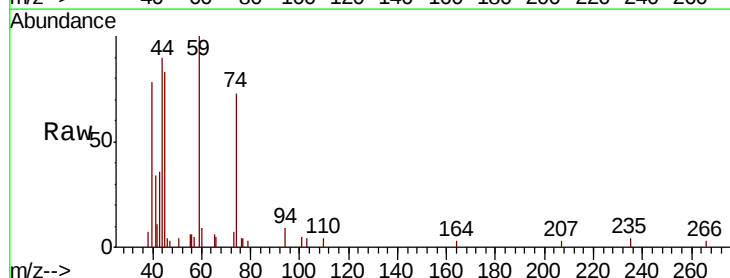
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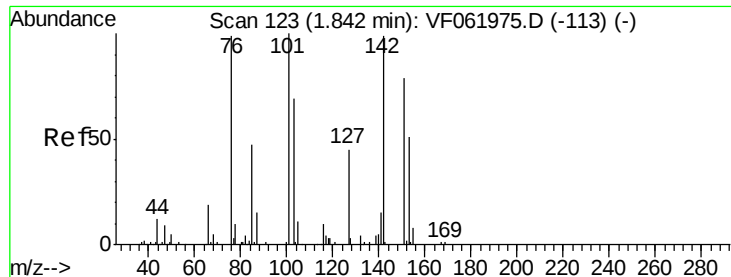


#8

Diethyl Ether
Concen: 4.865 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.8	56.3	168.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.643 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

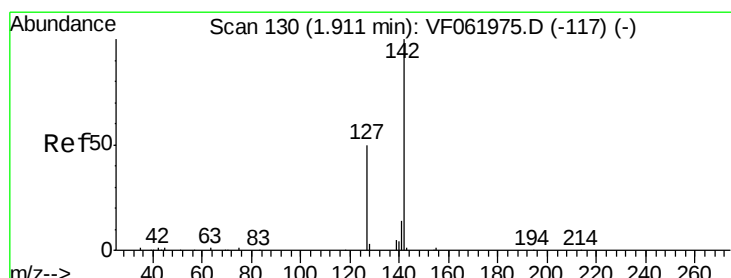
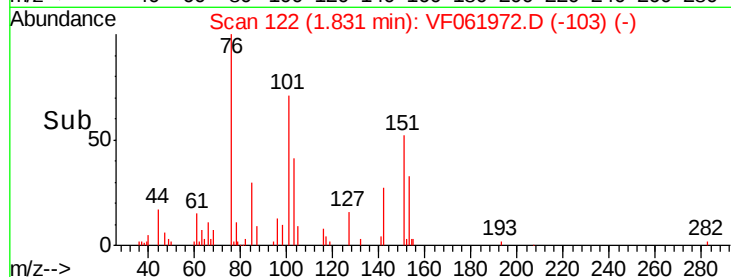
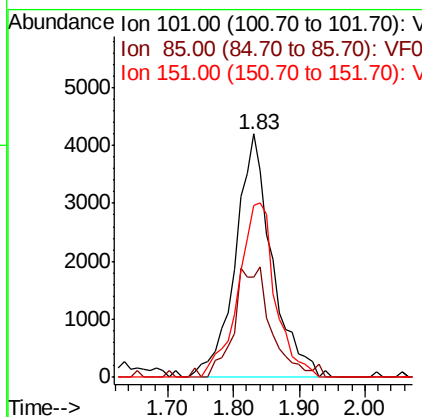
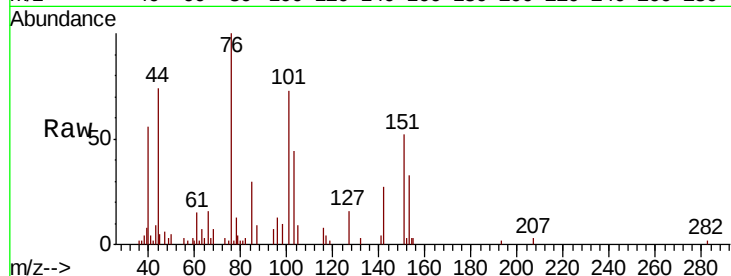
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	16334
Ion Ratio	Lower	Upper	
101	100		
85	41.1	36.8	55.2
151	70.4	62.2	93.2

Manual Integrations
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#10

Methyl Iodide

Concen: 4.817 ug/l m

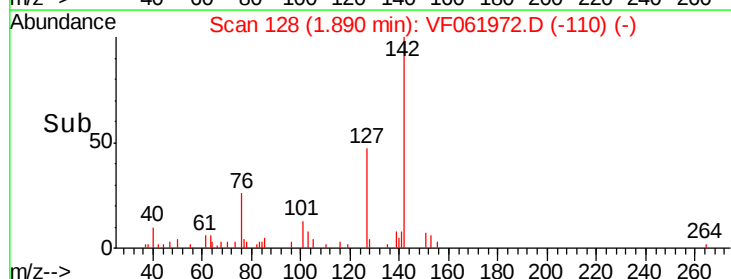
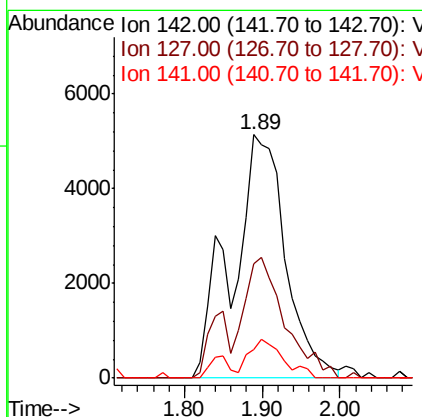
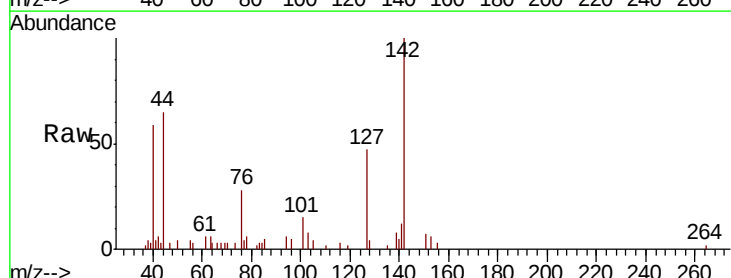
RT: 1.89 min Scan# 128

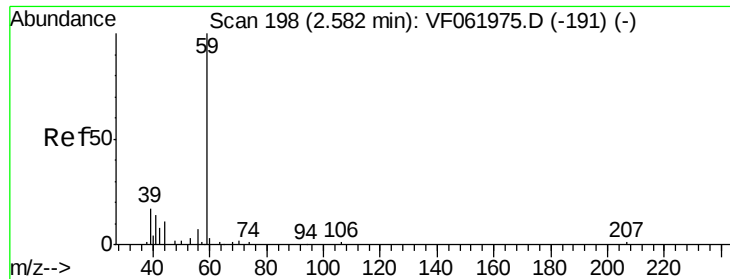
Delta R.T. -0.02 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion:	142	Resp:	24406
Ion Ratio	Lower	Upper	
142	100		
127	47.1	39.7	59.5
141	11.8	10.8	16.2





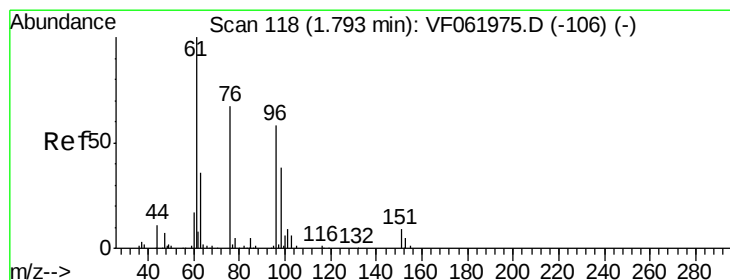
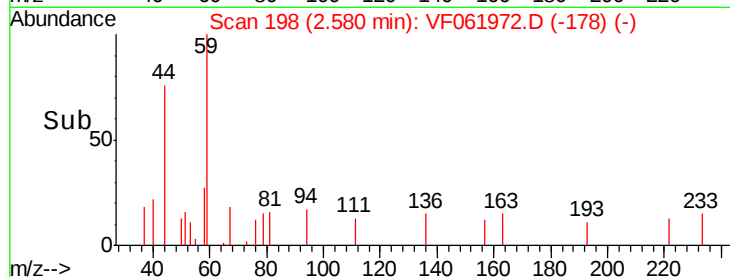
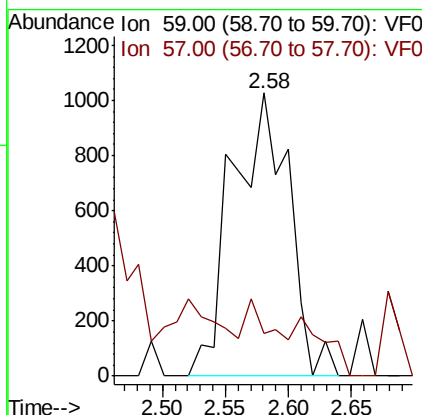
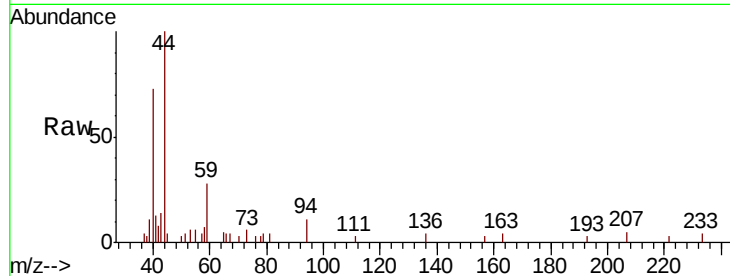
#11
Tert butyl alcohol
Concen: 24.622 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 59 Resp: 3210
Ion Ratio Lower Upper
59 100
57 15.2 8.7 13.1#

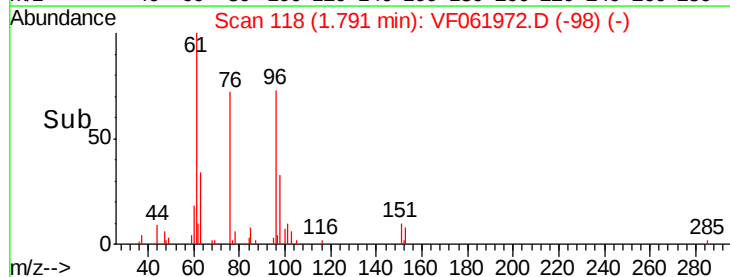
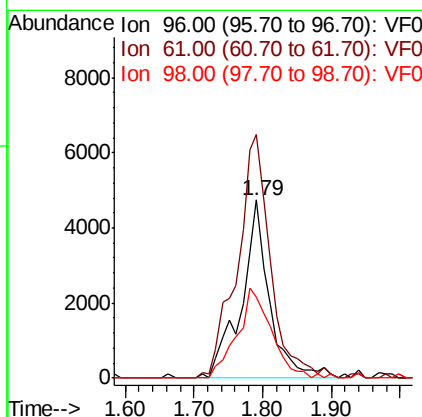
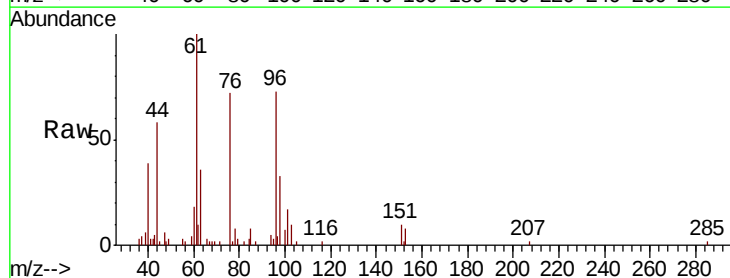
Manual Integrations
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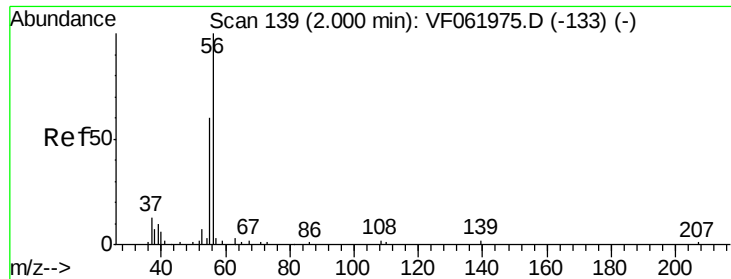
MMDadoda
3/22/2019 6:18:41 PM



#12
1,1-Dichloroethene
Concen: 5.385 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion: 96 Resp: 13453
Ion Ratio Lower Upper
96 100
61 137.0 138.6 208.0#
98 45.7 53.2 79.8#





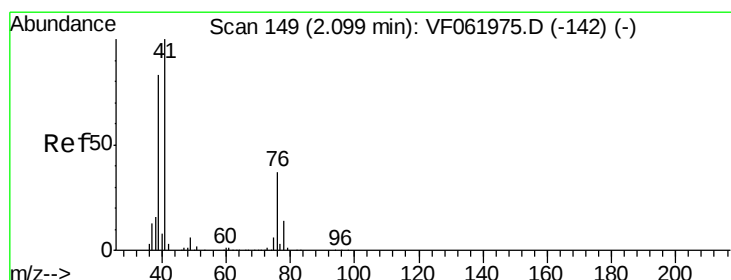
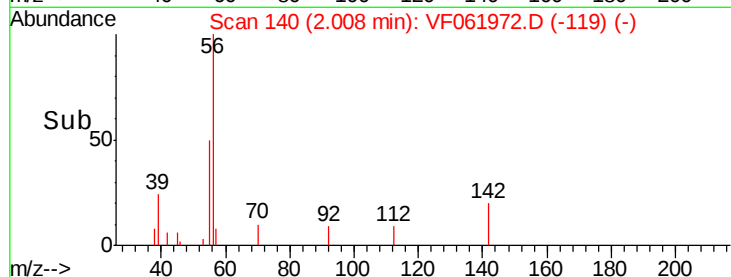
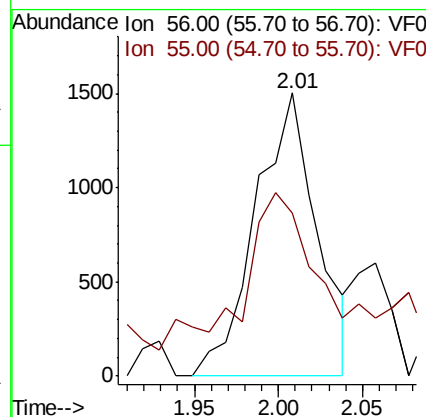
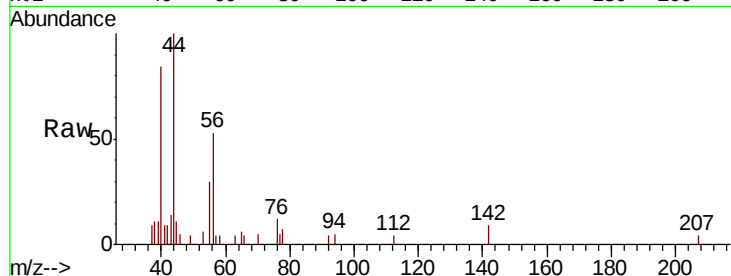
#13
Acrolein
Concen: 27.057 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.01 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 56 Resp: 3808
Ion Ratio Lower Upper
56 100
55 57.4 49.1 73.7

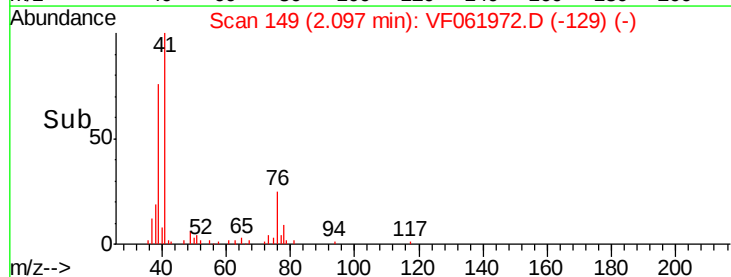
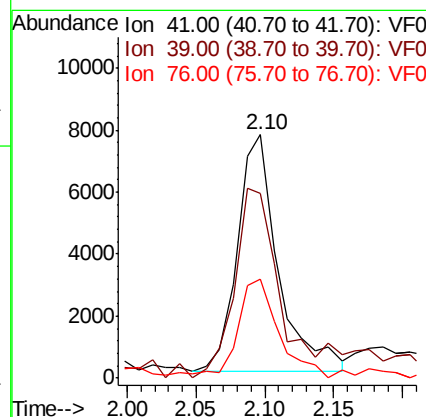
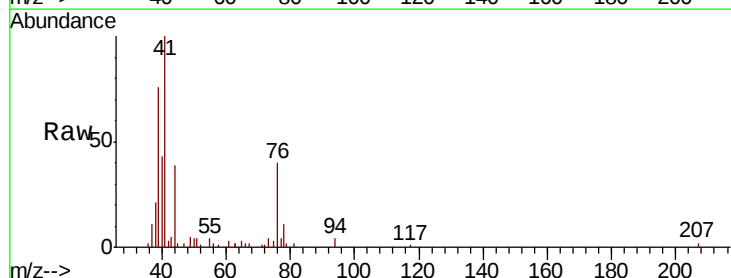
Manual Integrations
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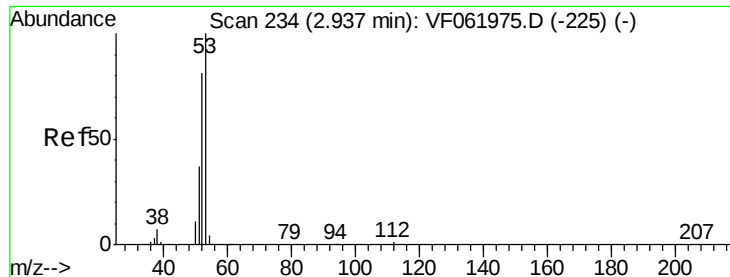
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#14
Allyl chloride
Concen: 4.969 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion: 41 Resp: 15846
Ion Ratio Lower Upper
41 100
39 76.1 66.8 100.2
76 40.4 31.1 46.7





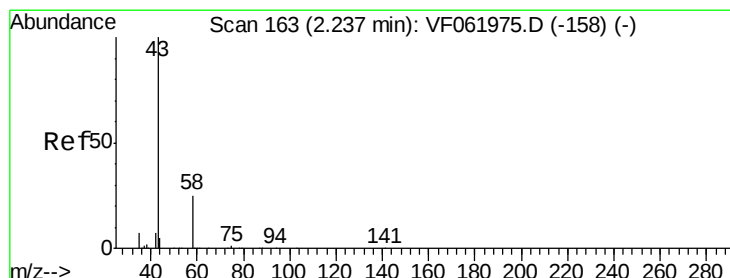
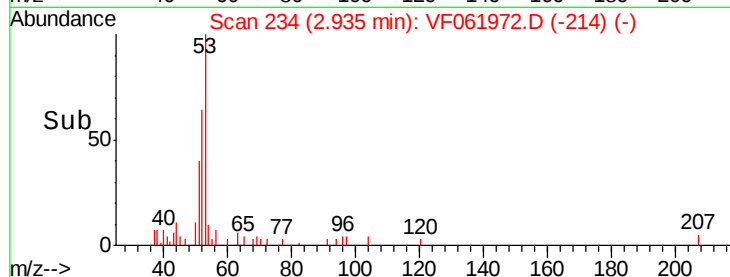
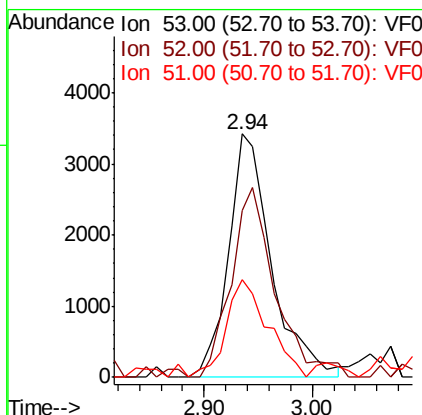
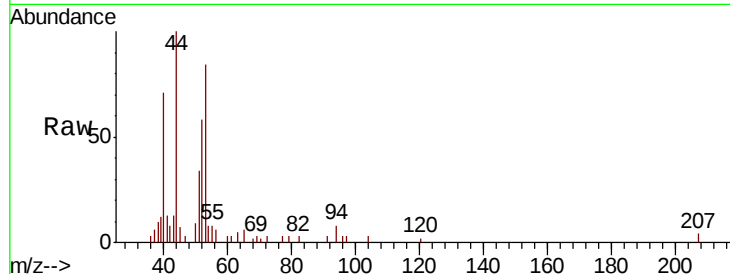
#15
 Acrylonitrile
 Concen: 23.975 ug/l
 RT: 2.94 min Scan# 234
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion:	53	Resp:	9505
Ion	Ratio	Lower	Upper
53	100		
52	68.6	64.4	96.6
51	40.1	30.3	45.5

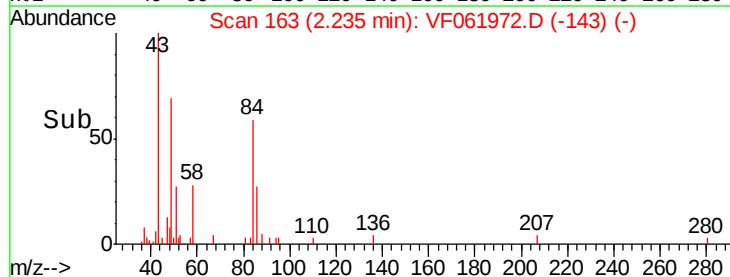
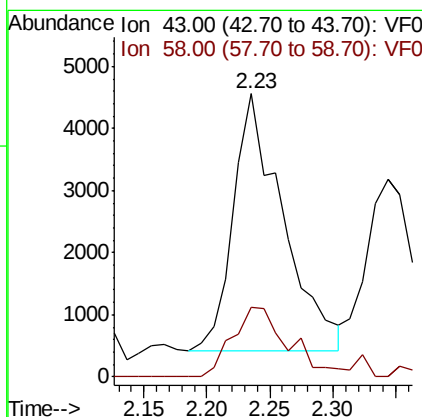
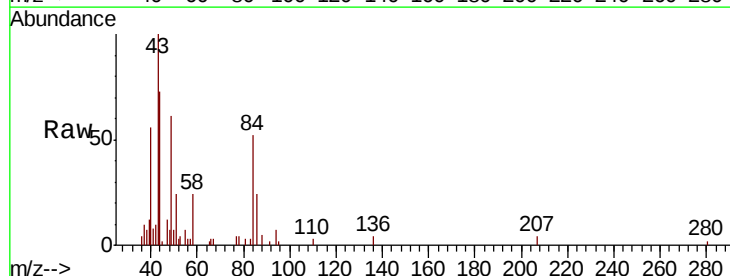
Manual Integrations
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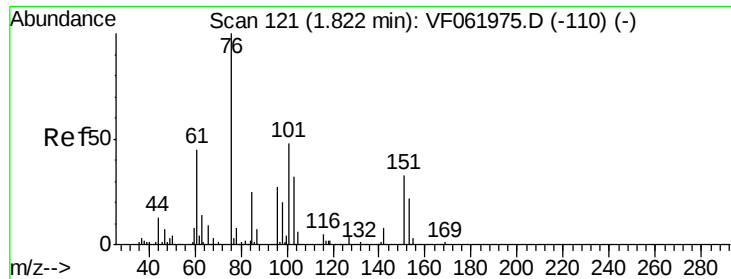
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#16
 Acetone
 Concen: 23.515 ug/l
 RT: 2.23 min Scan# 163
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Tgt Ion:	43	Resp:	11250
Ion	Ratio	Lower	Upper
43	100		
58	24.5	19.9	29.9





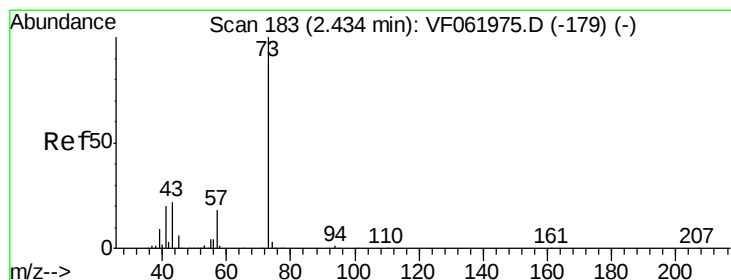
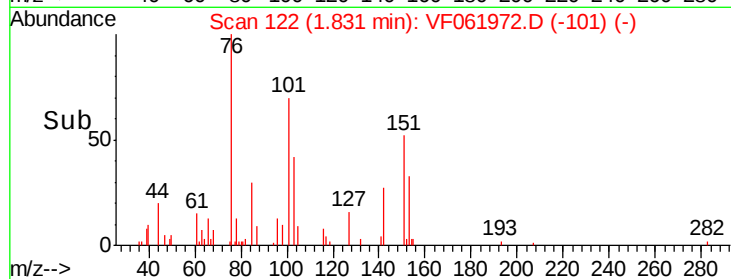
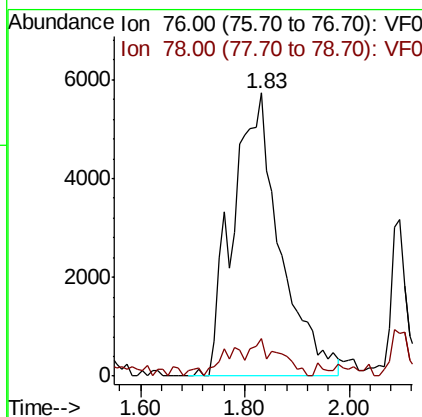
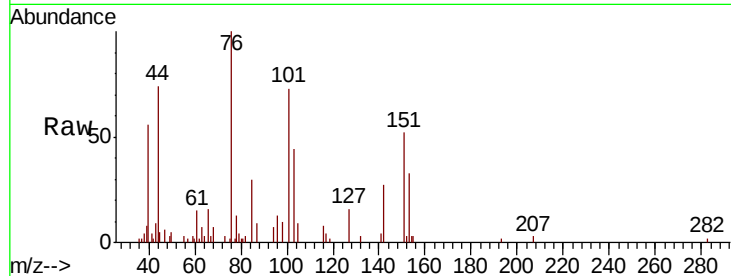
#17
Carbon Disulfide
Concen: 4.921 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.01 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 76 Resp: 35554
Ion Ratio Lower Upper
76 100
78 13.4 6.8 10.2#

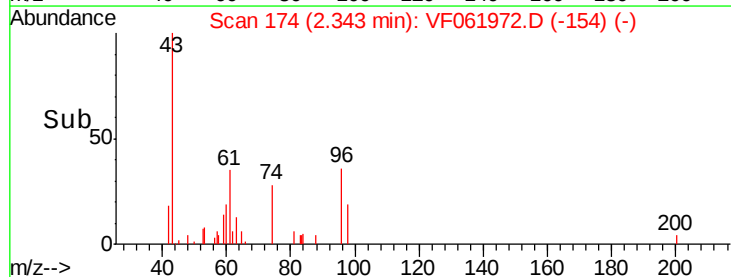
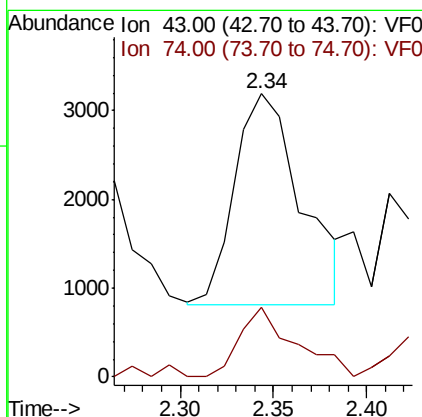
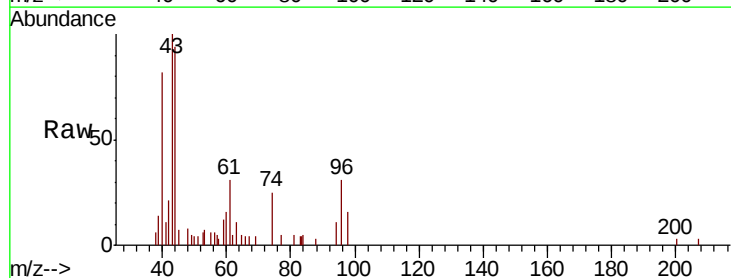
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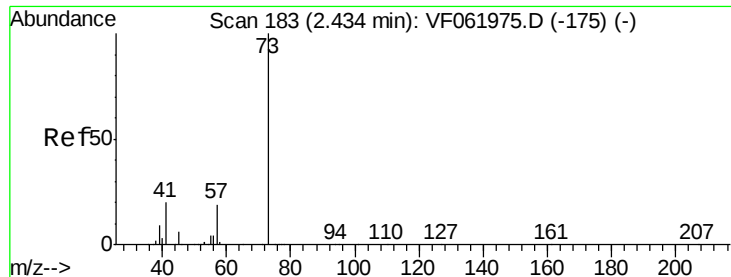
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#18
Methyl Acetate
Concen: 5.855 ug/l m
RT: 2.34 min Scan# 174
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion: 43 Resp: 5950
Ion Ratio Lower Upper
43 100
74 24.6 18.3 27.5





#19

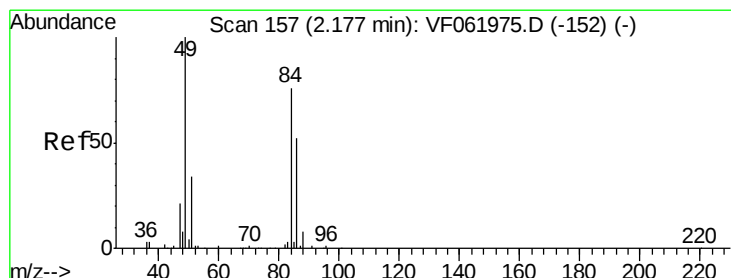
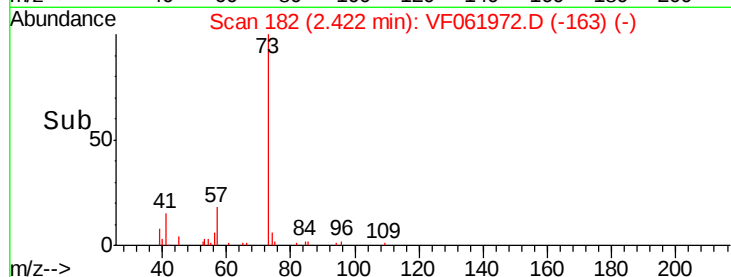
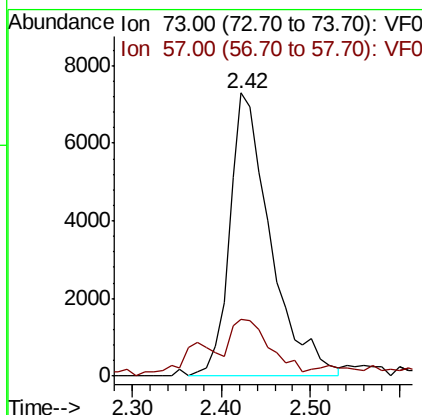
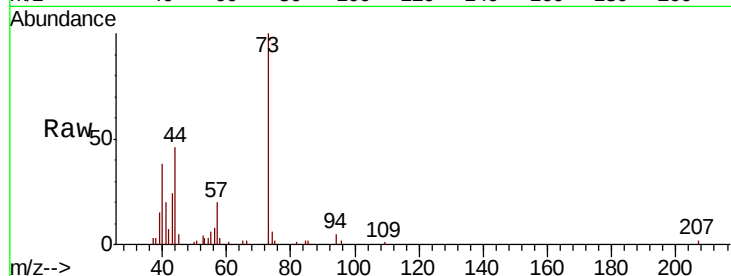
Methyl tert-butyl Ether
 Concen: 5.155 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.0	15.3	22.9

Manual Integrations
 APPROVED

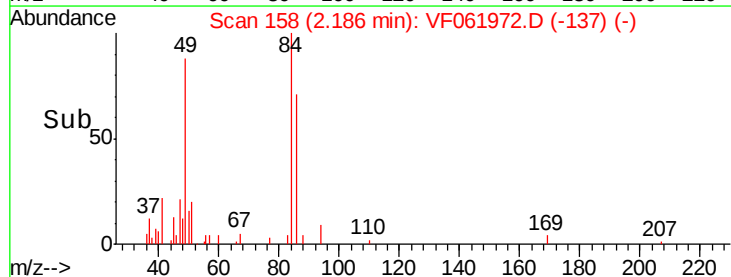
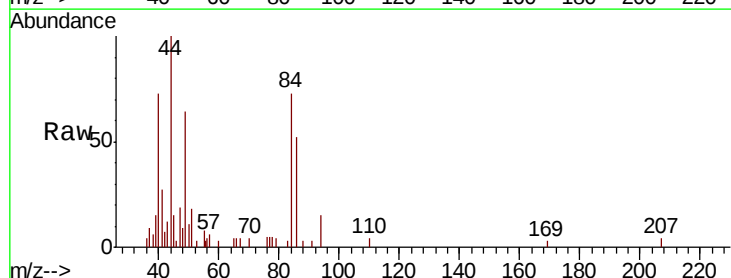
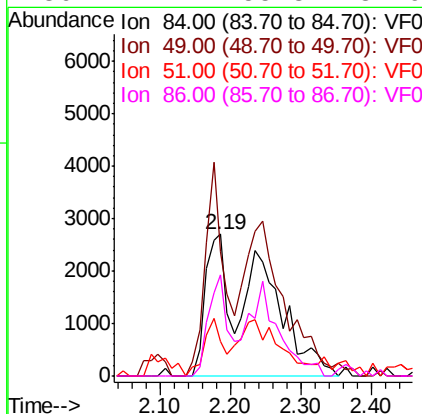
MMDadoda
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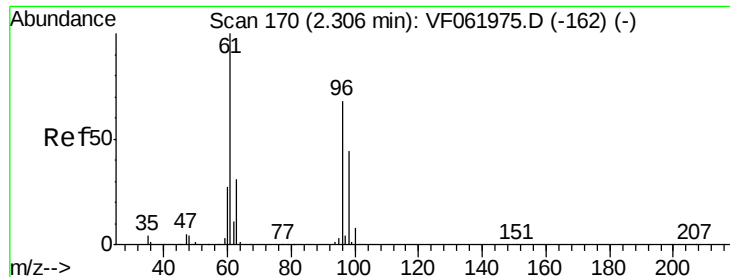


#20

Methylene Chloride
 Concen: 6.021 ug/l m
 RT: 2.19 min Scan# 158
 Delta R.T. 0.01 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
84	100		
49	87.7	107.0	160.6#
51	24.2	37.2	55.8#
86	71.2	55.3	82.9





#21

trans-1,2-Dichloroethene

Concen: 5.329 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

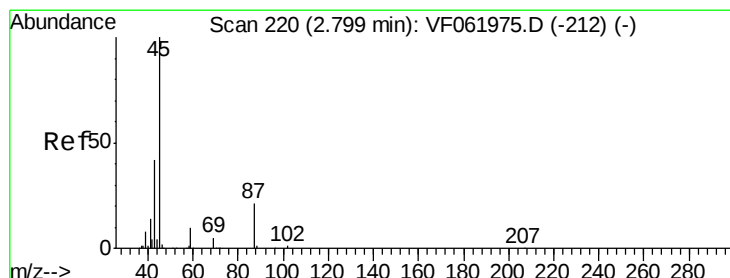
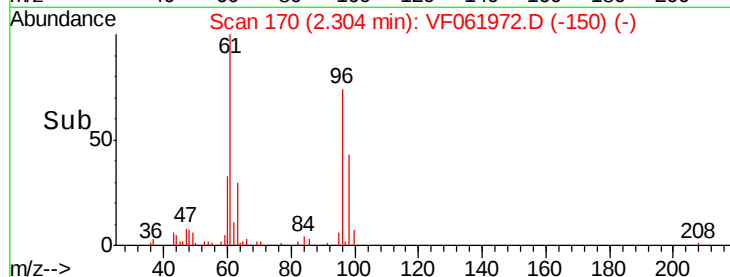
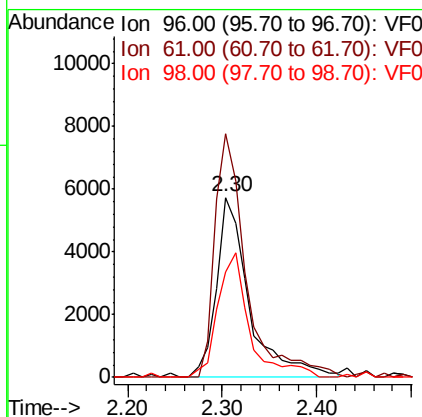
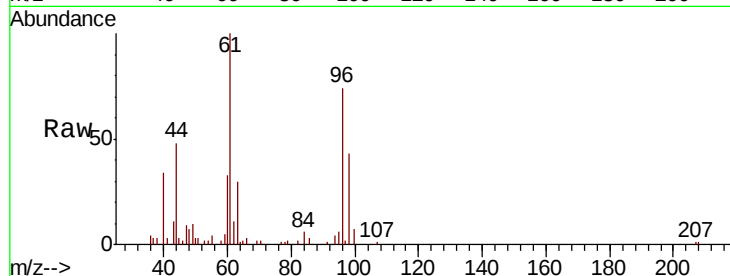
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	13891
Ion	Ratio	Lower	Upper
96	100		
61	135.1	117.4	176.2
98	58.6	51.2	76.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 4.919 ug/l

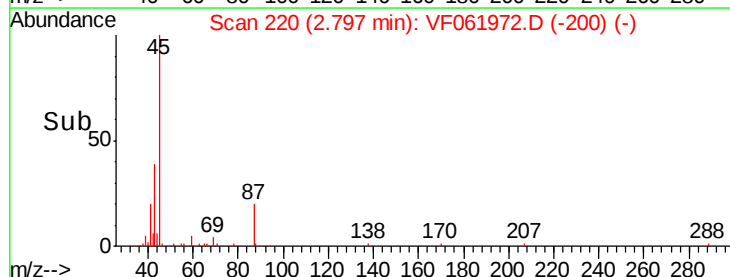
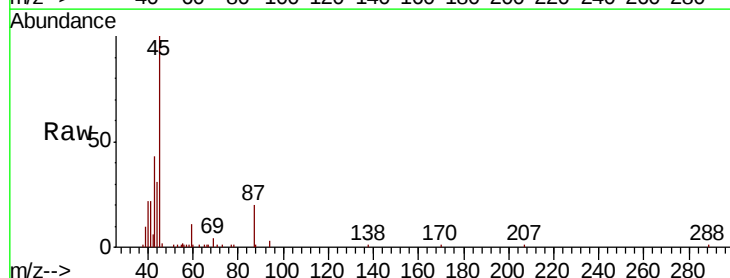
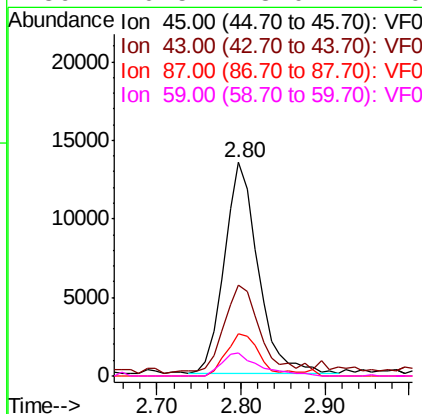
RT: 2.80 min Scan# 220

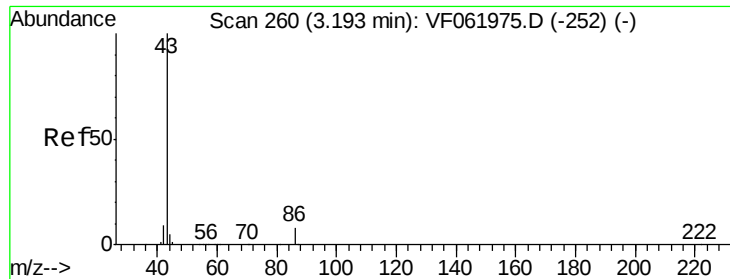
Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion:	45	Resp:	37726
Ion	Ratio	Lower	Upper
45	100		
43	42.6	33.7	50.5
87	19.6	17.1	25.7
59	10.5	8.0	12.0





#23

Vinyl Acetate

Concen: 22.158 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 66996

Ion Ratio Lower Upper

43 100

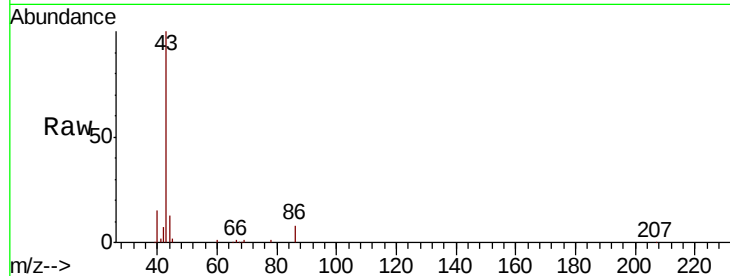
86 7.7 6.5 9.7

Manual Integrations

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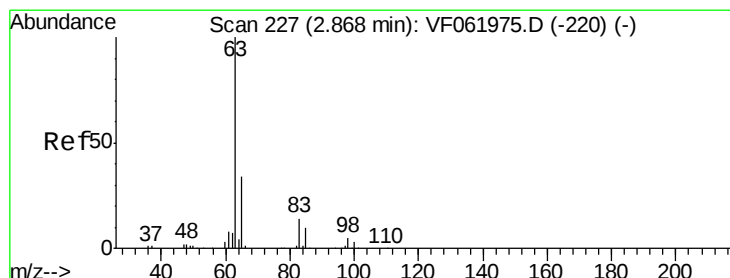
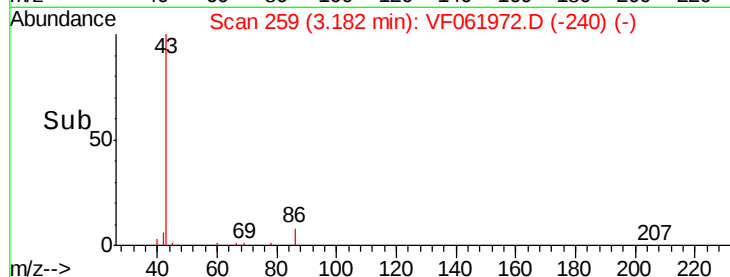
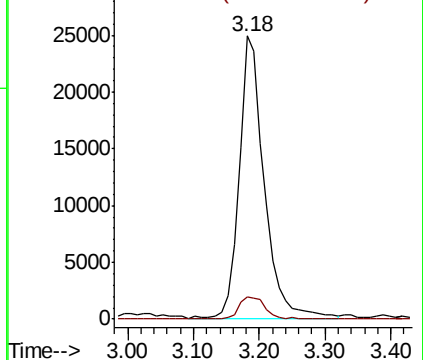
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 4.612 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

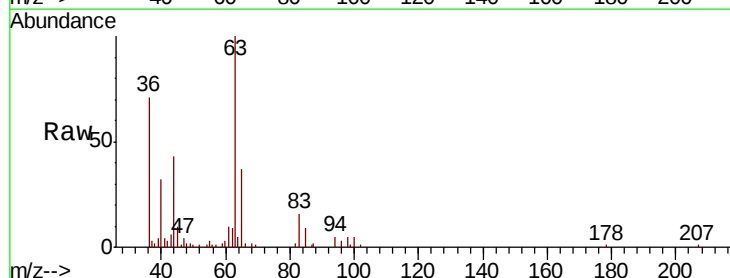
Tgt Ion: 63 Resp: 20570

Ion Ratio Lower Upper

63 100

98 4.8 2.7 8.1

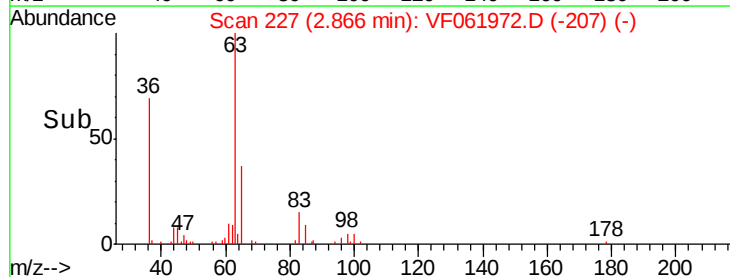
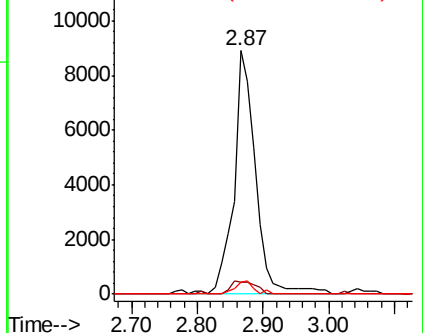
100 4.9 1.7 5.0

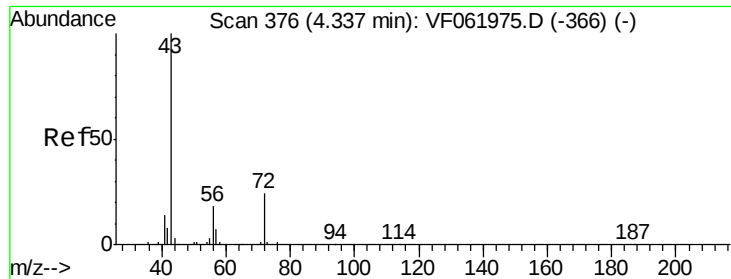


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 26.828 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 25420

Ion Ratio Lower Upper

43 100

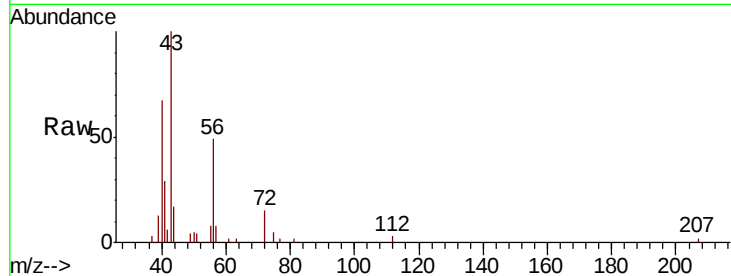
72 15.2 19.8 29.6#

Manual Integrations

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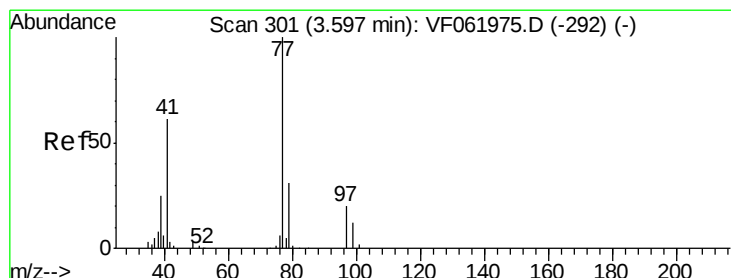
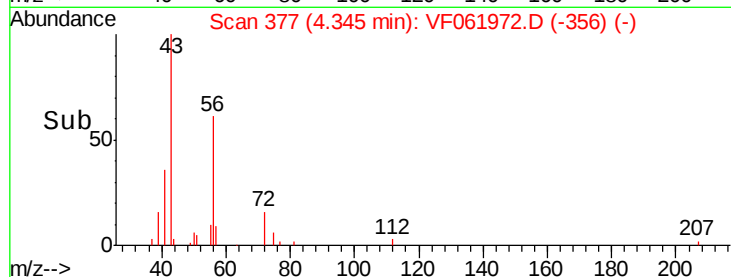
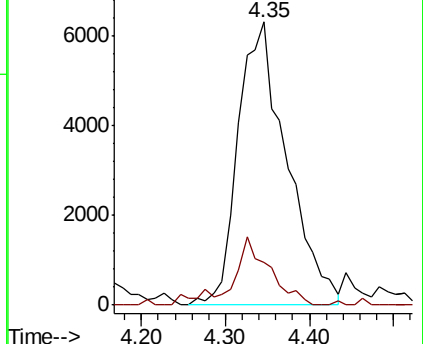
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 5.235 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.00 min

Lab File: VF061972.D

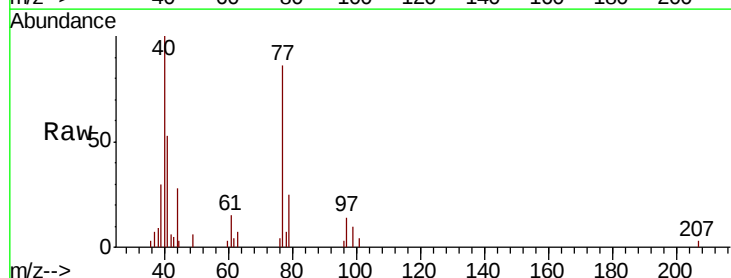
Acq: 16 Mar 2019 10:14

Tgt Ion: 77 Resp: 11013

Ion Ratio Lower Upper

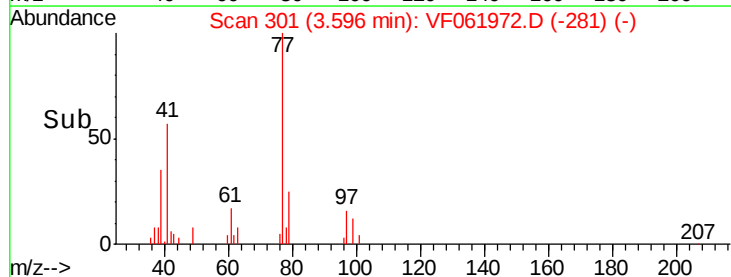
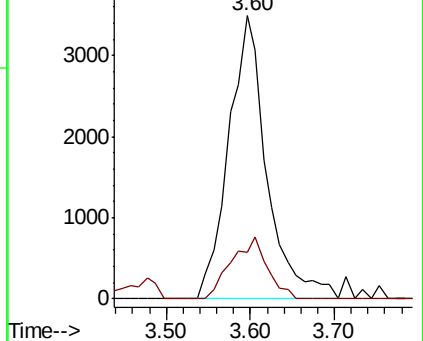
77 100

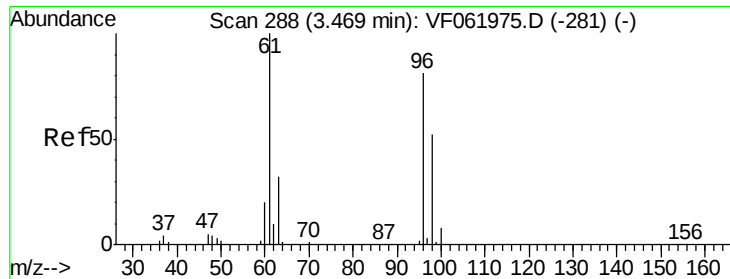
97 16.3 10.8 32.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

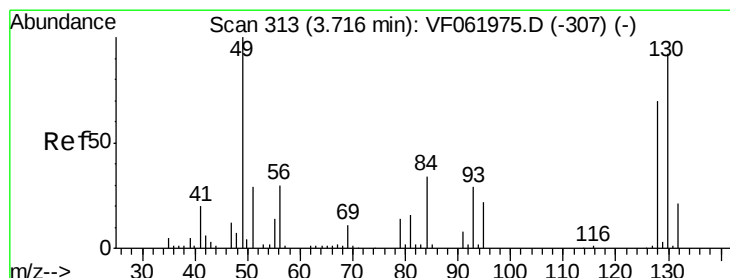
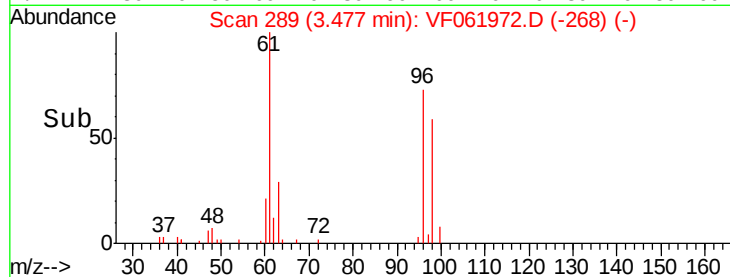
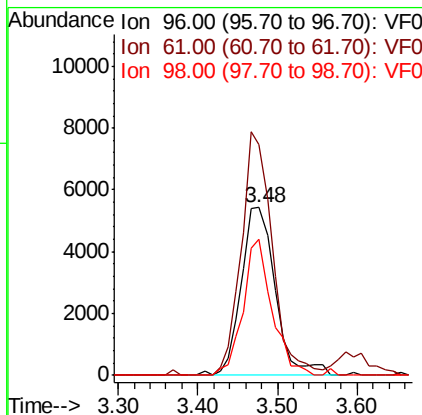
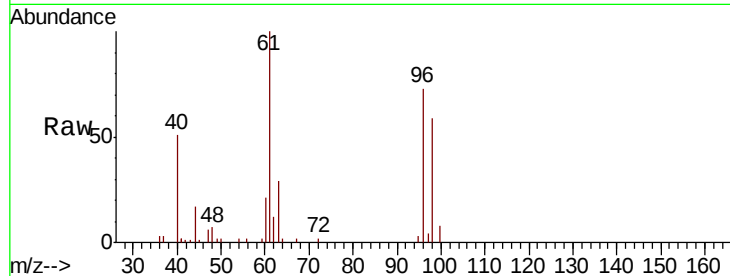
cis-1,2-Dichloroethene
 Concen: 4.883 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.01 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.2	0.0	246.6
98	81.3	0.0	129.2

Manual Integrations
 APPROVED

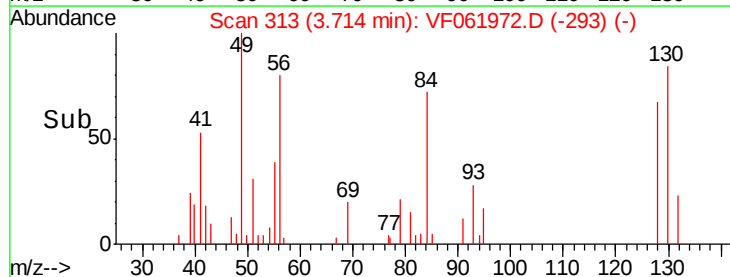
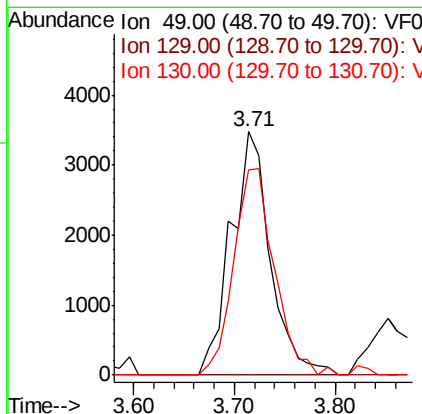
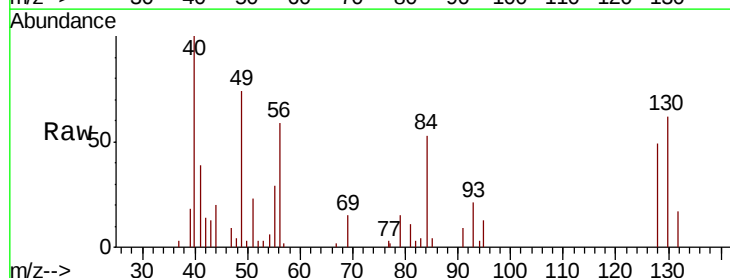
MMDadoda
 3/22/2019 6:18:41 PM

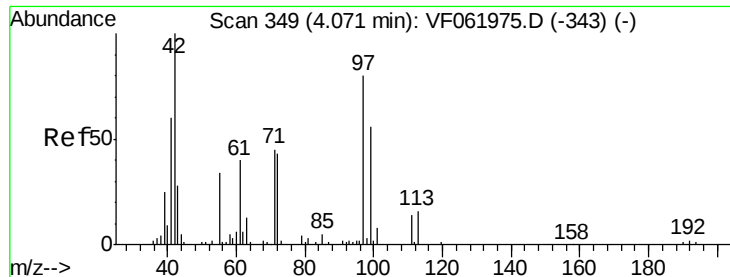


#28

Bromochloromethane
 Concen: 5.113 ug/l
 RT: 3.71 min Scan# 313
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.8
130	84.0	73.1	109.7





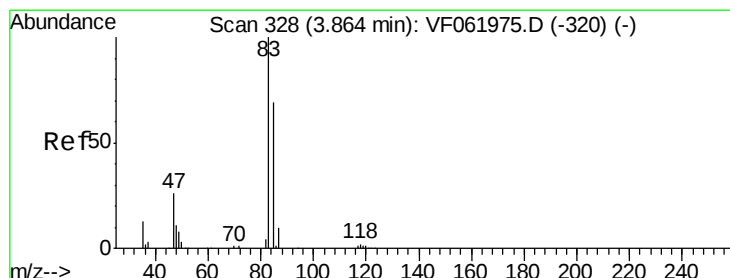
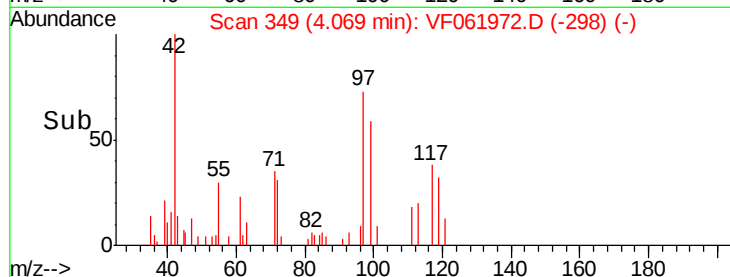
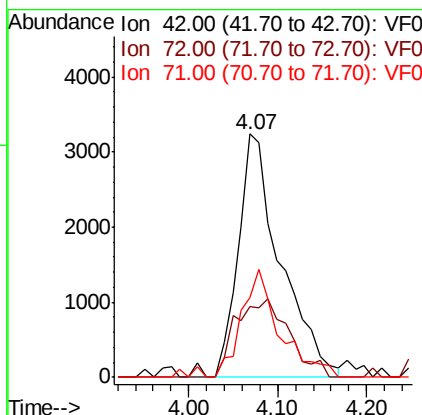
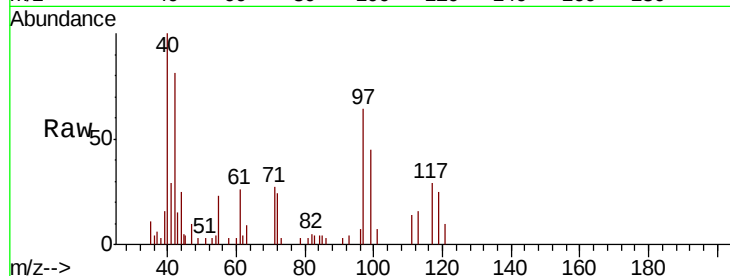
#29
Tetrahydrofuran
Concen: 26.209 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	34.0	51.0
71	39.5	34.2	51.4

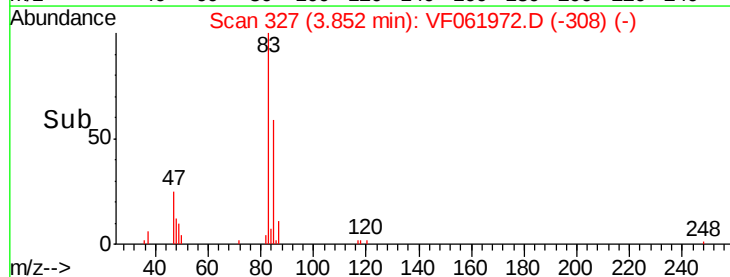
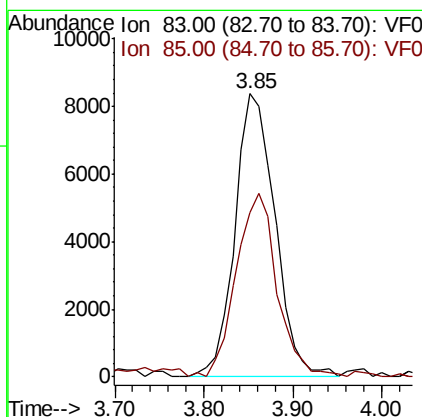
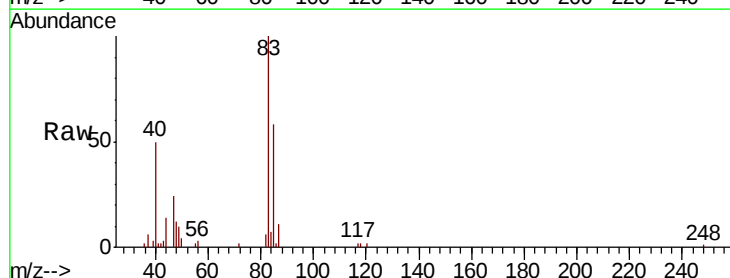
Manual Integrations
APPROVED

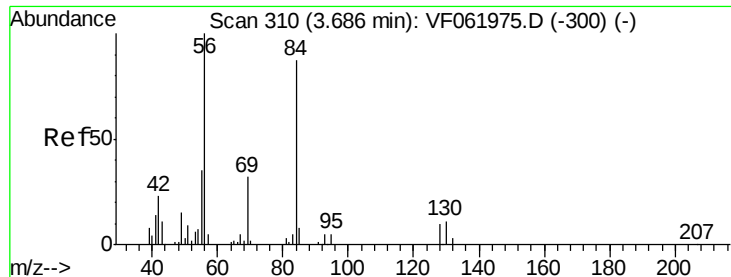
MMDadoda
3/22/2019 6:18:41 PM



#30
Chloroform
Concen: 5.190 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.9	55.5	83.3





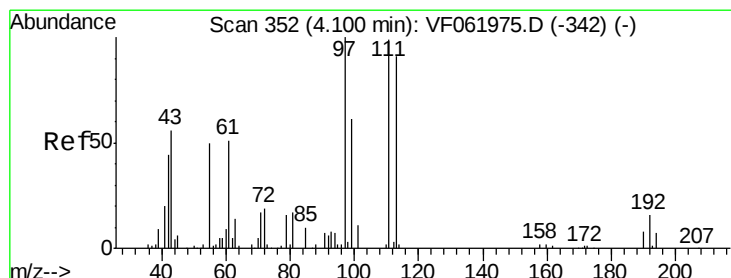
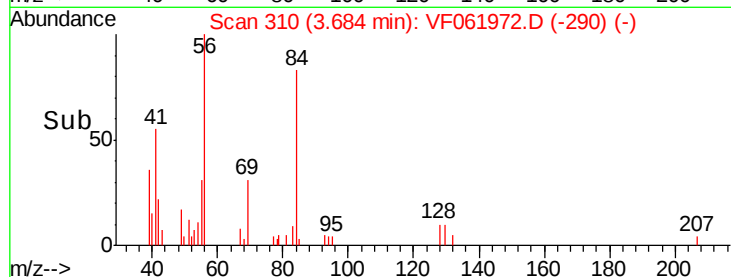
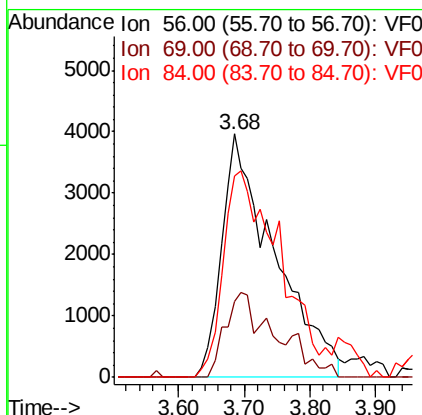
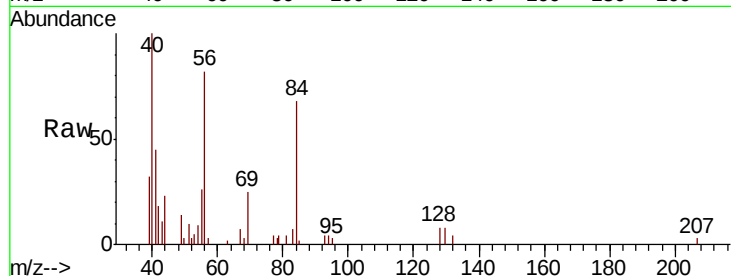
#31
Cyclohexane
Concen: 5.063 ug/l
RT: 3.68 min Scan# 310
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.0	25.8	38.8
84	82.7	69.5	104.3

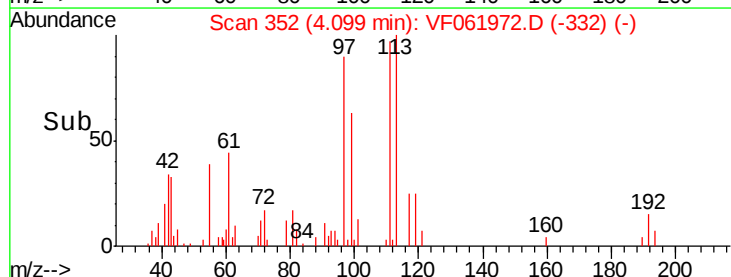
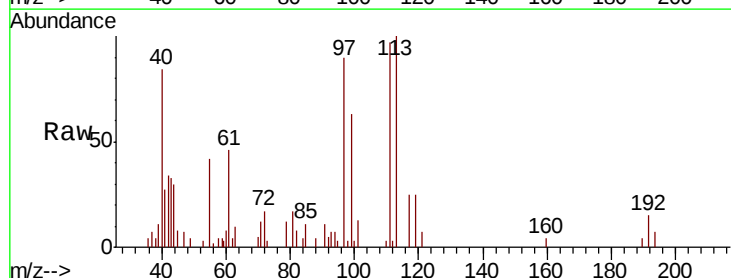
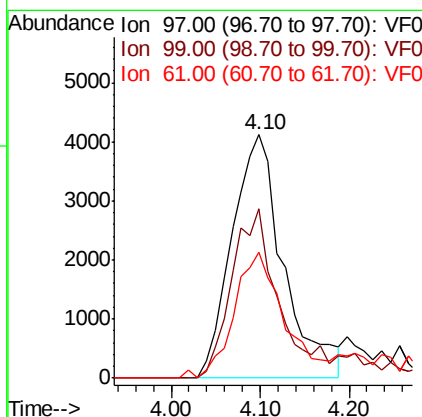
Manual Integrations
APPROVED

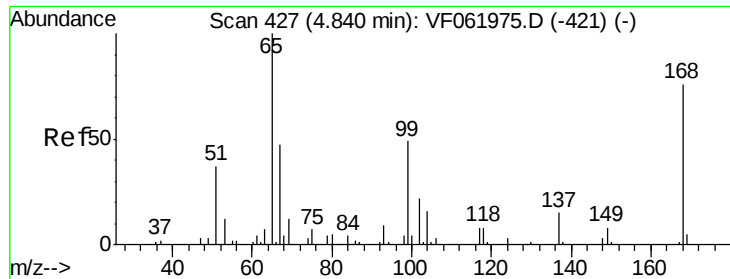
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3/22/2019 6:18:41 PM



#32
1,1,1-Trichloroethane
Concen: 4.952 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	69.5	49.0	73.4
61	51.5	41.4	62.0





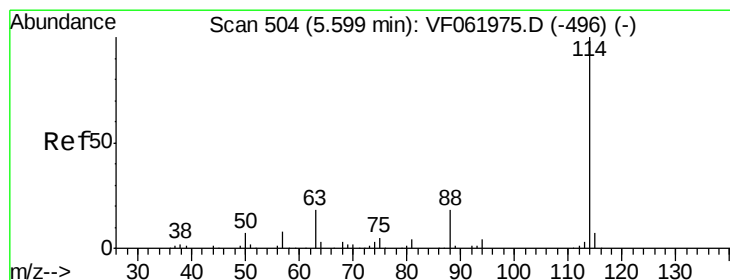
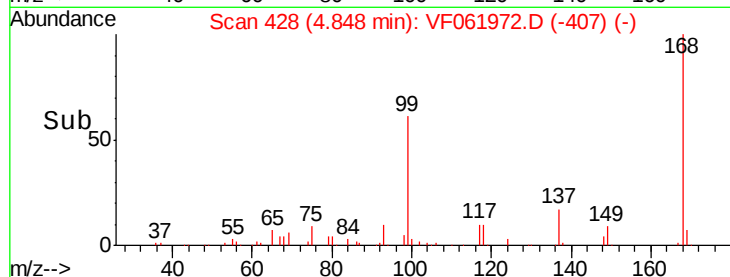
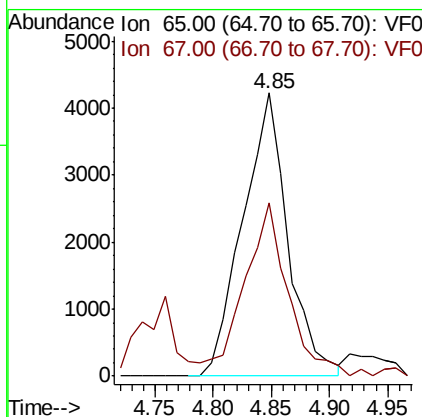
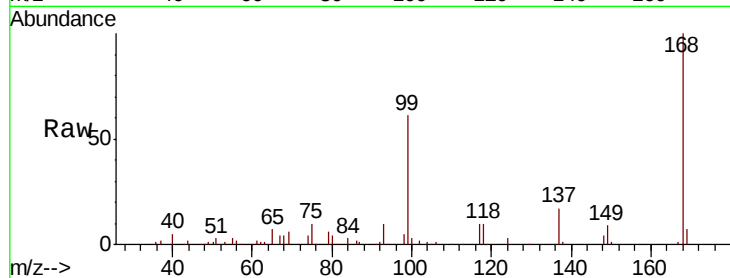
#33
 1,2-Dichloroethane-d4
 Concen: 5.311 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
65	100	11316		
67	61.0	0.0	109.4	

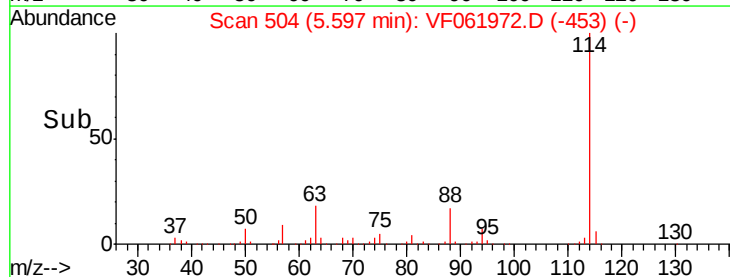
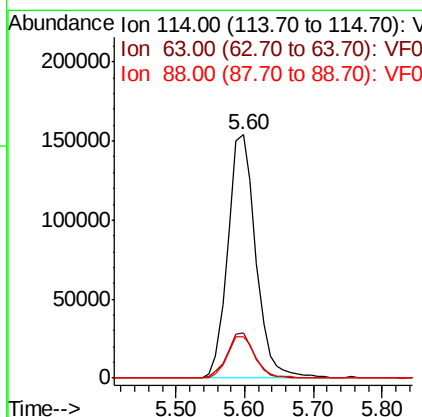
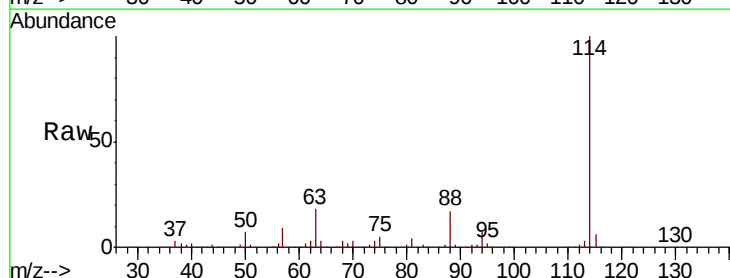
Manual Integrations
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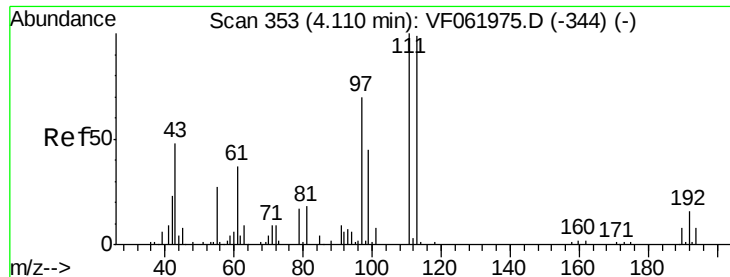
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	433828		
63	18.5	0.0	36.4	
88	17.2	0.0	36.4	





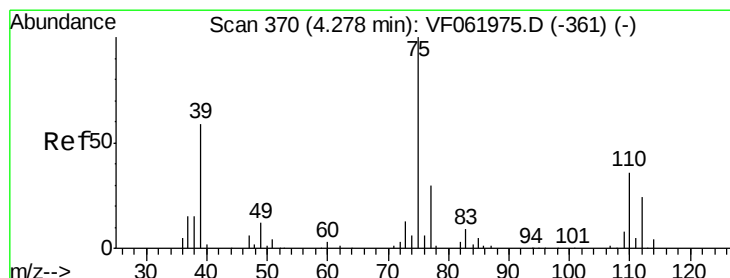
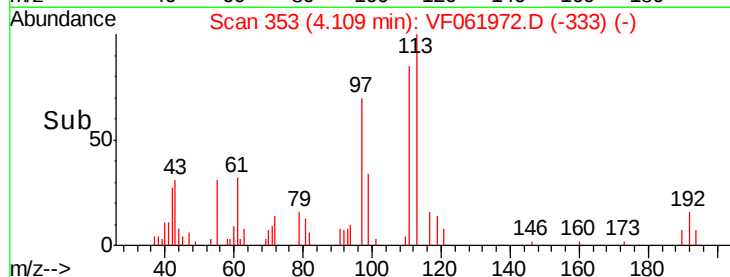
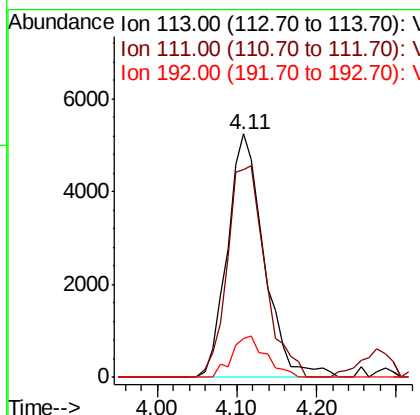
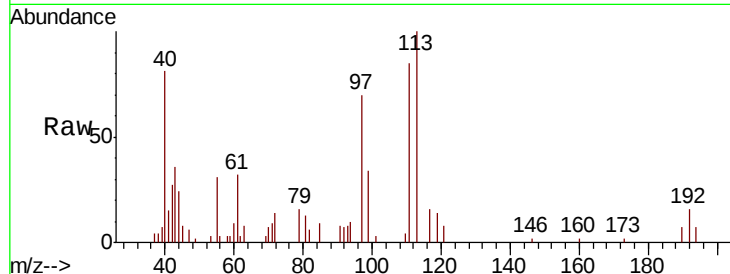
#35
Dibromofluoromethane
Concen: 5.779 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	16836		
111	85.4		80.8	121.2
192	16.1		13.0	19.6

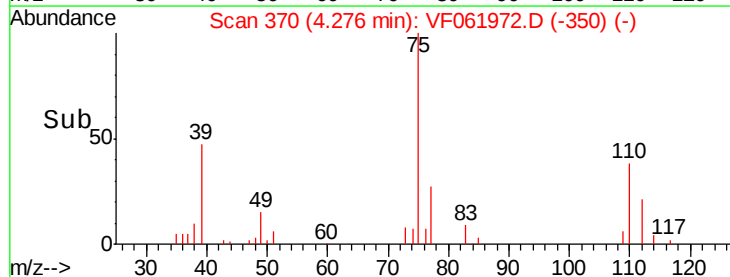
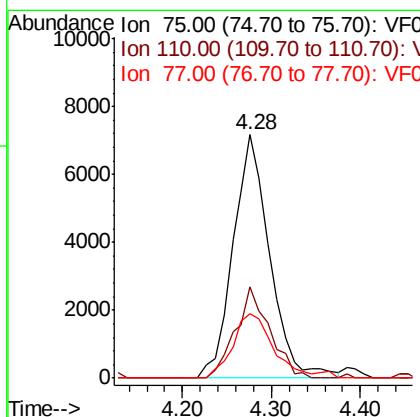
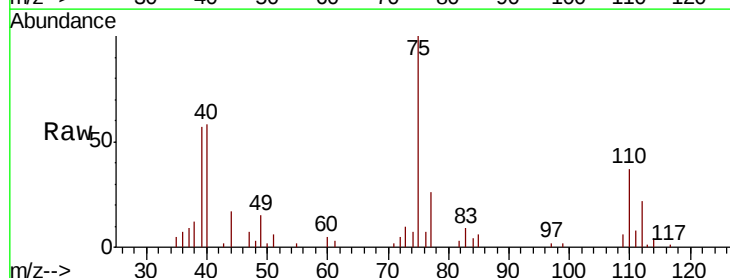
Manual Integrations
APPROVED

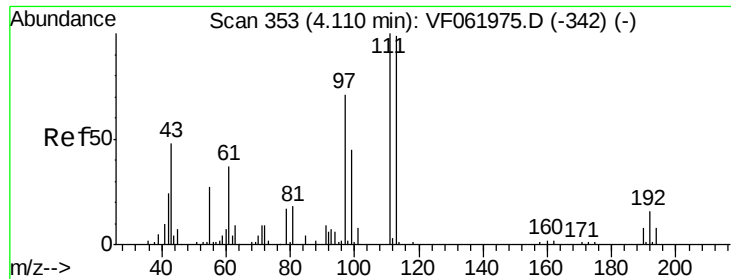
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#36
1,1-Dichloropropene
Concen: 5.220 ug/l
RT: 4.28 min Scan# 370
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	20449		
110	37.3		17.8	53.3
77	26.2		24.2	36.2





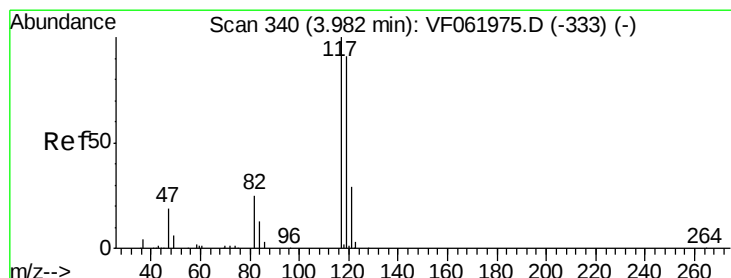
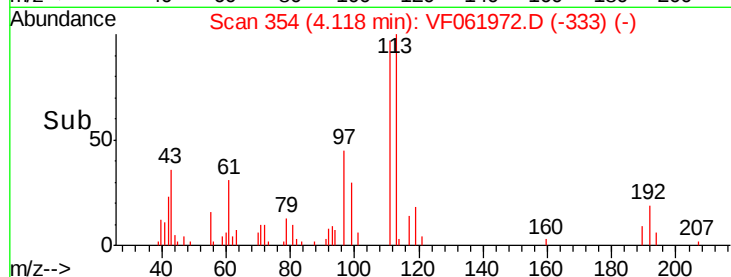
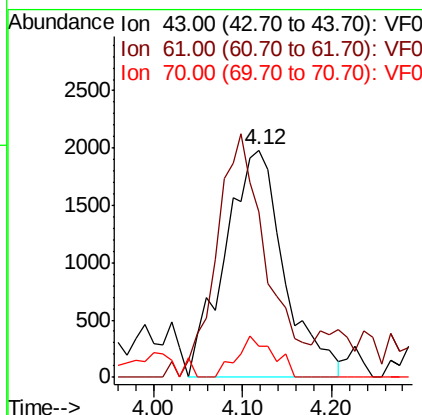
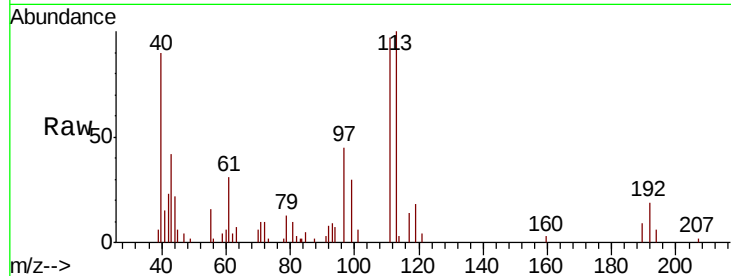
#37
Ethyl Acetate
Concen: 5.220 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	72.9	59.8	89.6
70	13.5	7.8	11.8#

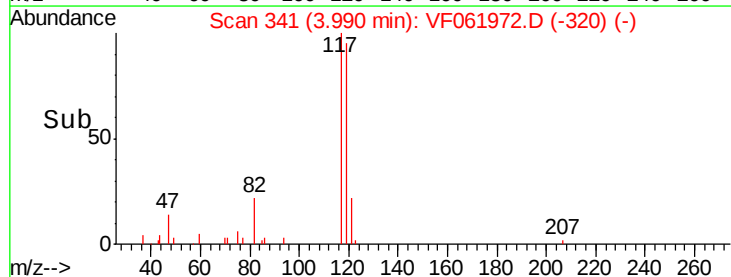
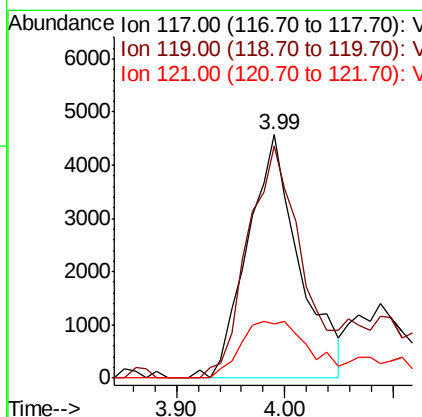
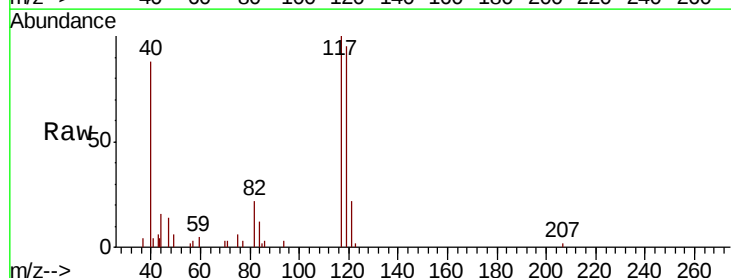
Manual Integrations
APPROVED

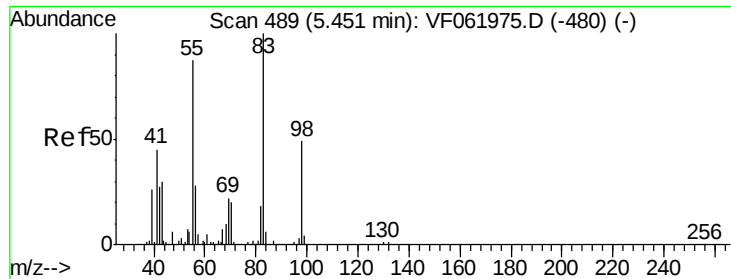
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#38
Carbon Tetrachloride
Concen: 5.287 ug/l
RT: 3.99 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	73.0	109.4
121	22.0	23.0	34.6#





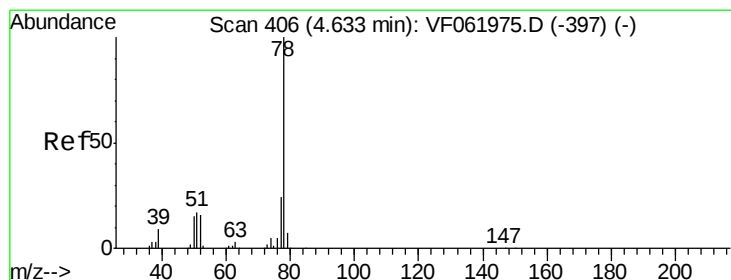
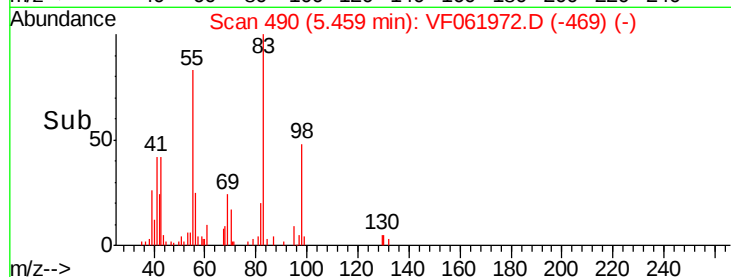
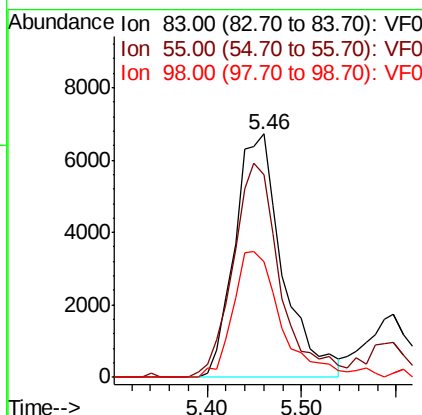
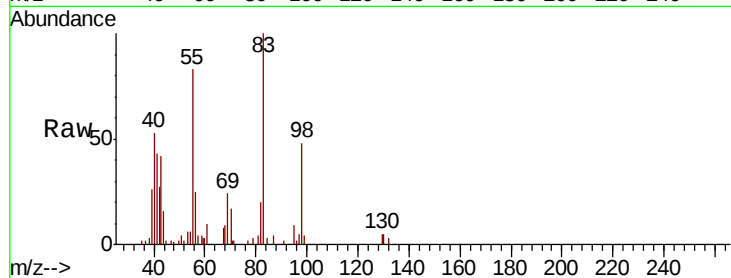
#39
Methvlcvclohexane
Concen: 5.117 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.01 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.5	69.7	104.5
98	47.6	39.4	59.0

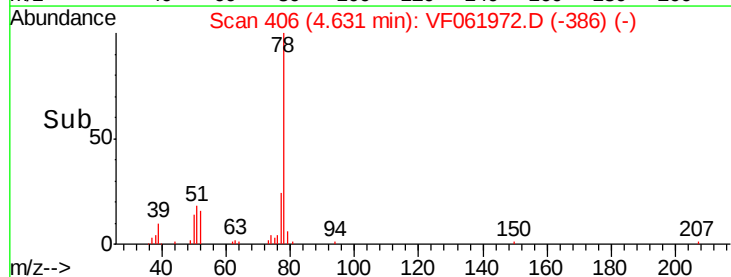
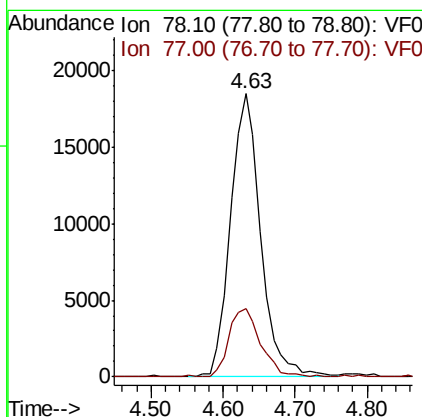
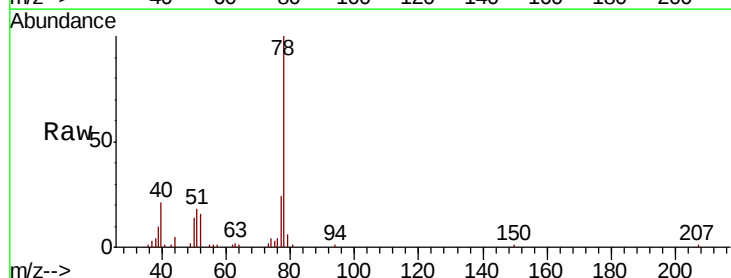
Manual Integrations
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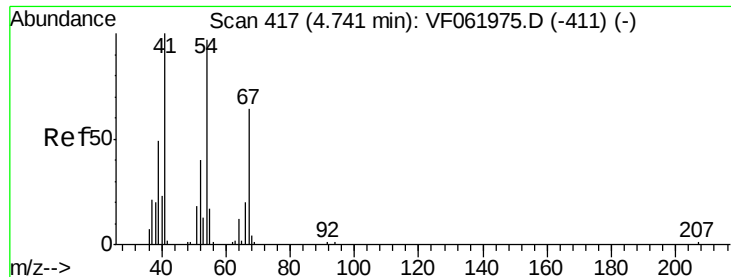
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#40
Benzene
Concen: 5.194 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4





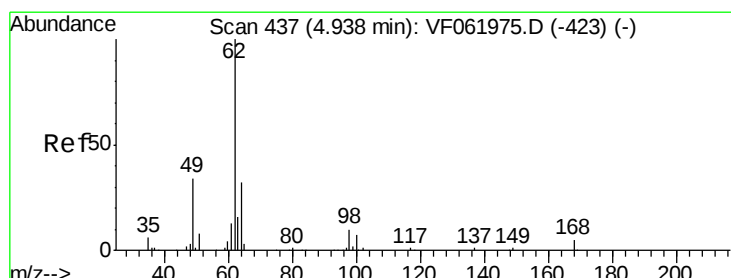
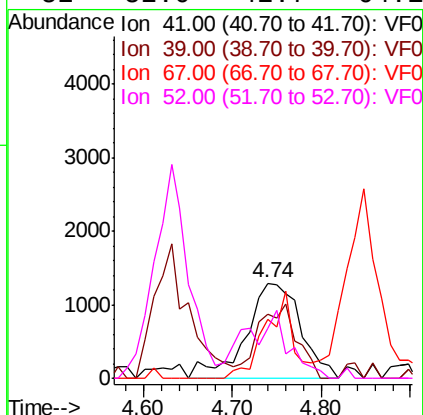
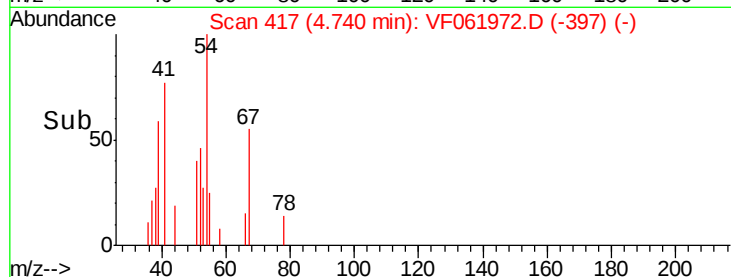
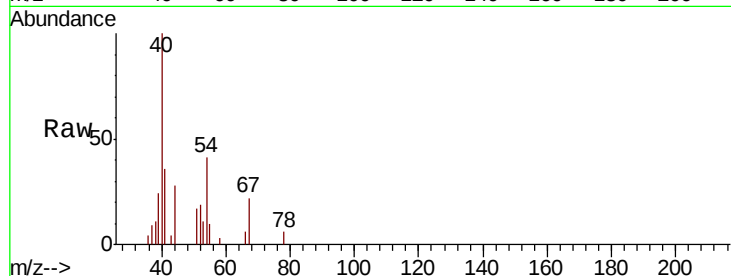
#41
Methacrylonitrile
Concen: 5.839 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	66.8	46.2	69.4
67	67	62.0	49.8	74.8
52	52	52.0	42.7	64.1

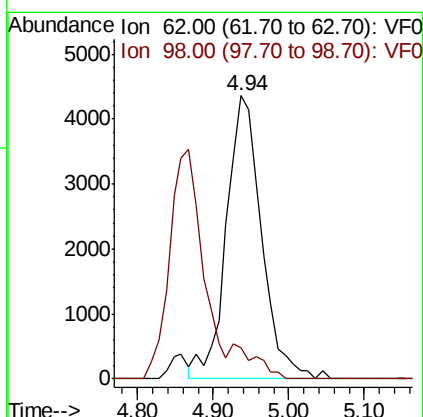
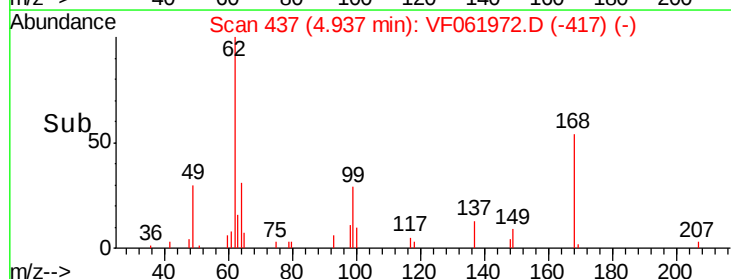
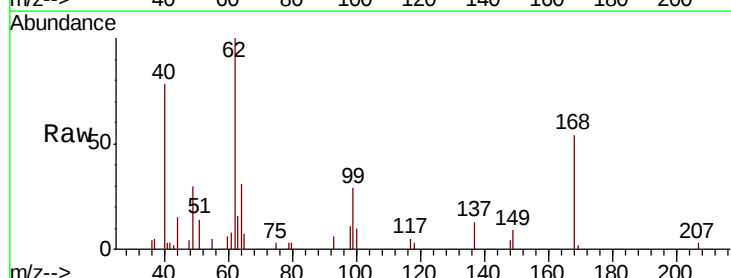
Manual Integrations
APPROVED

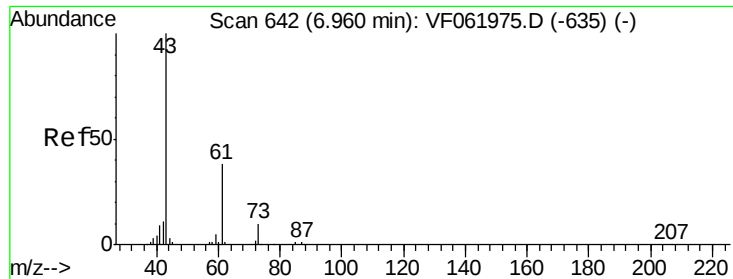
MMDadoda
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#42
1,2-Dichloroethane
Concen: 5.434 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ion	Ratio	Lower	Upper
62	62	100		
98	98	11.0	0.0	19.8





#43

Isopropyl Acetate

Concen: 5.715 ug/l

RT: 6.97 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

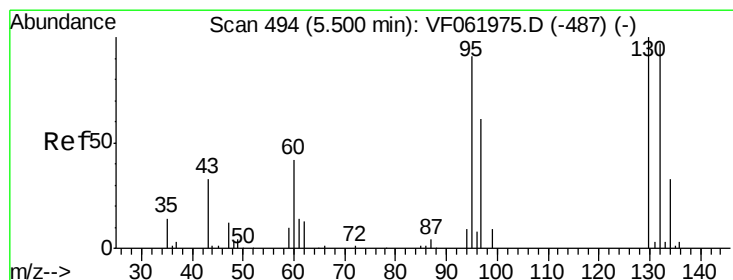
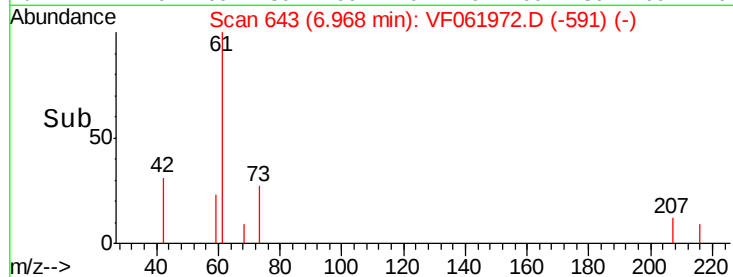
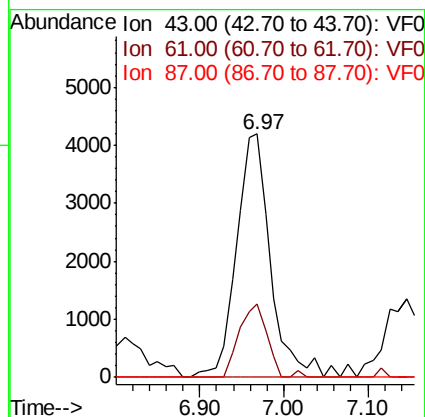
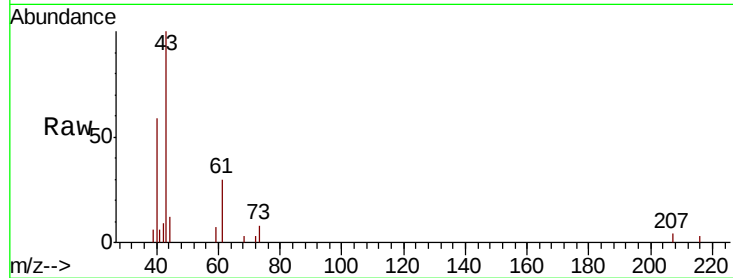
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	11895
Ion Ratio	Lower	Upper	
43	100		
61	30.0	30.1	45.1#
87	0.0	0.4	0.6#

Manual Integrations
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#44

Trichloroethene

Concen: 5.463 ug/l

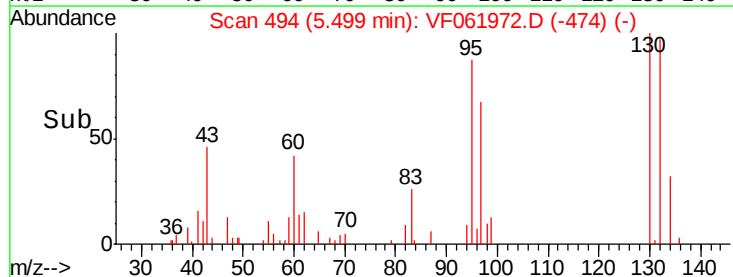
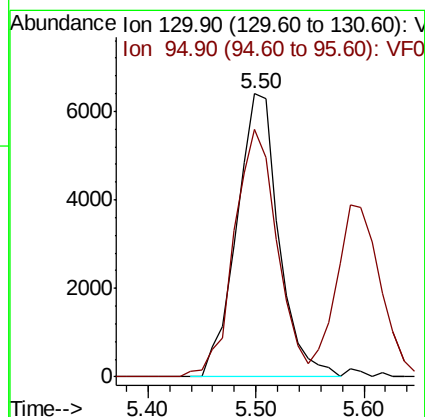
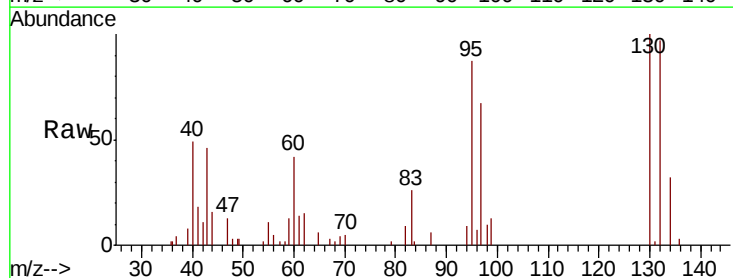
RT: 5.50 min Scan# 494

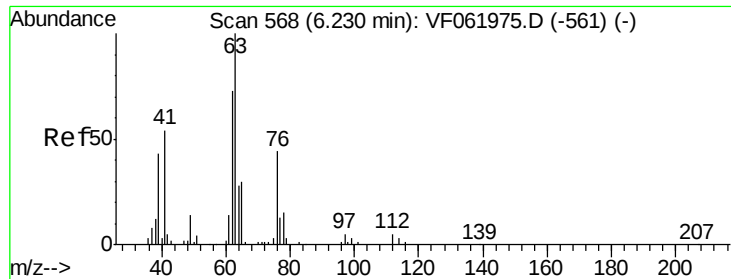
Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion:	130	Resp:	17371
Ion Ratio	Lower	Upper	
130	100		
95	87.4	0.0	181.4





#45

1,2-Dichloropropane

Concen: 5.062 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 12435

Ion Ratio Lower Upper

63 100

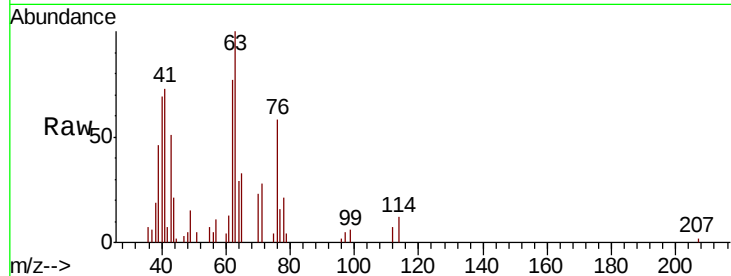
65 32.6 23.7 35.5

Manual Integrations

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.24

5000

4000

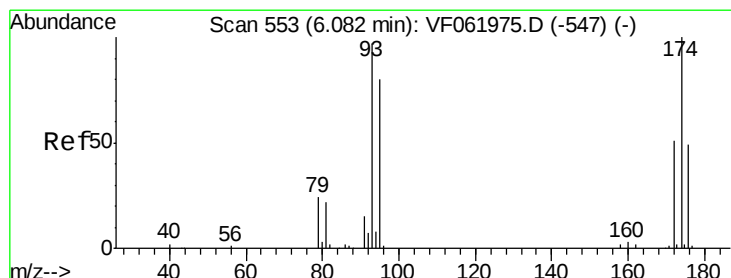
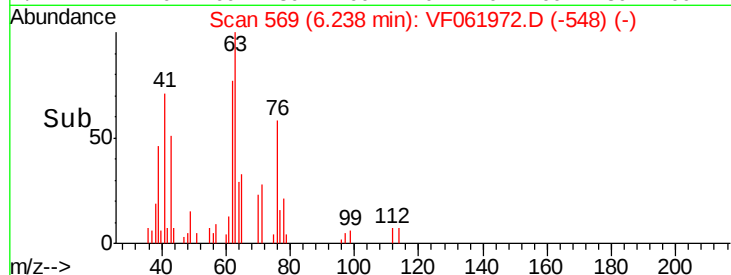
3000

2000

1000

0

Time-->



#46

Dibromomethane

Concen: 4.441 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

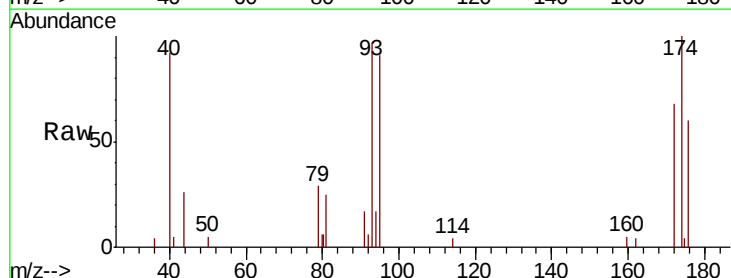
Tgt Ion: 93 Resp: 6491

Ion Ratio Lower Upper

93 100

95 94.2 65.7 98.5

174 103.2 82.2 123.4



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

4000

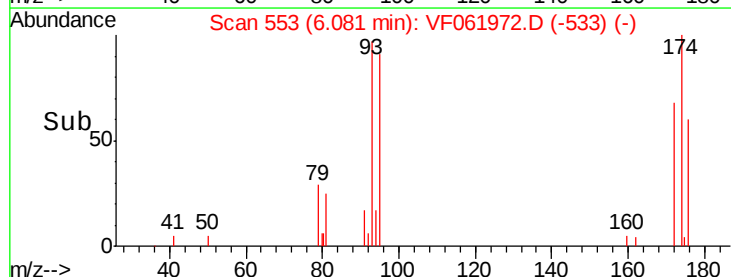
3000

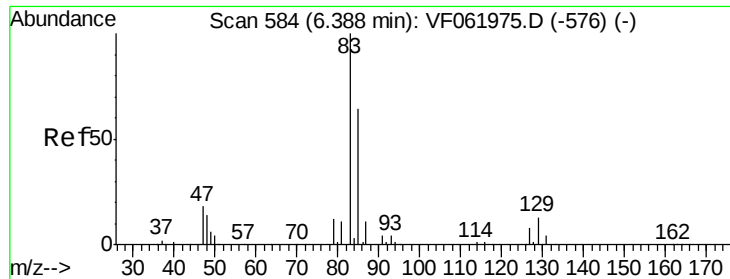
2000

1000

0

Time-->





#47

Bromodichloromethane

Concen: 5.047 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

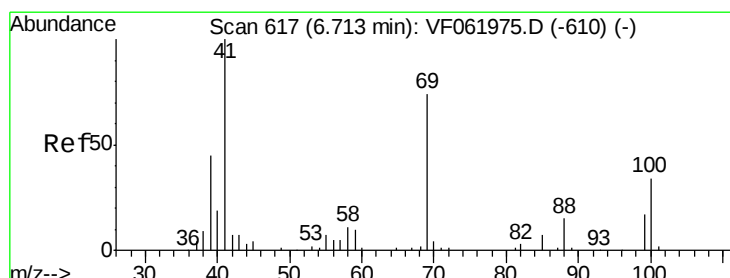
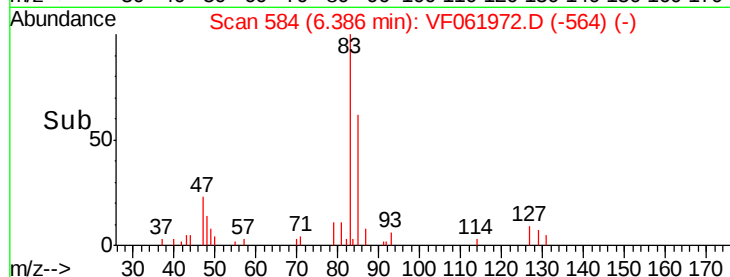
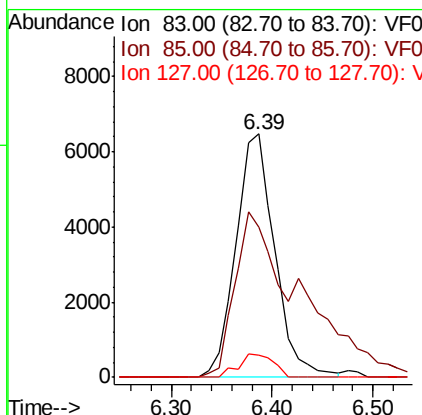
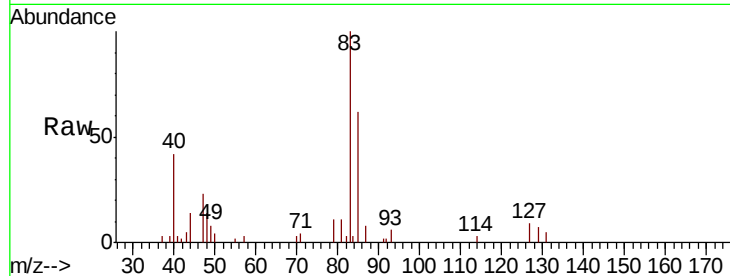
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	17389
Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.4	77.2
127	8.9	6.5	9.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 5.678 ug/l

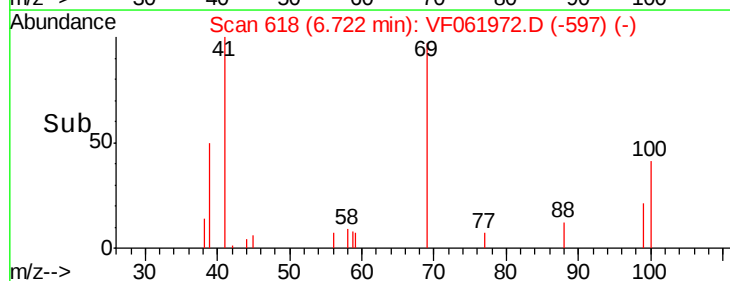
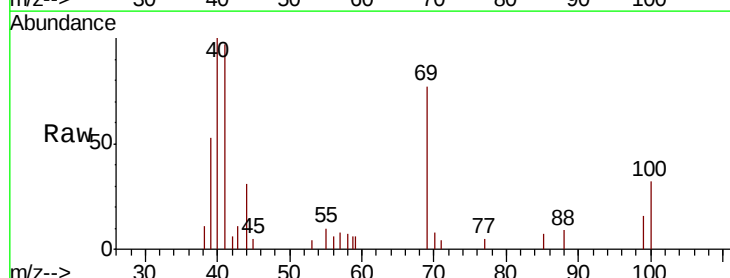
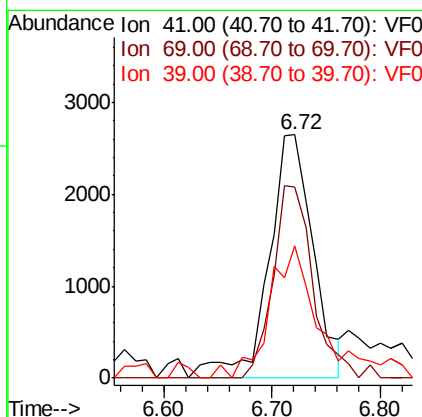
RT: 6.72 min Scan# 618

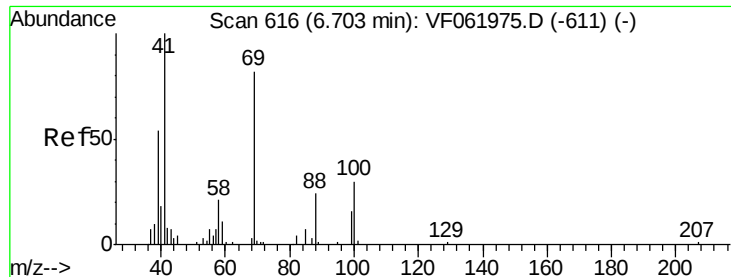
Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion:	41	Resp:	7637
Ion	Ratio	Lower	Upper
41	100		
69	78.7	59.0	88.6
39	54.1	35.6	53.4#





#49

1,4-Dioxane

Concen: 90.014 ug/l

RT: 6.71 min Scan# 617

Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

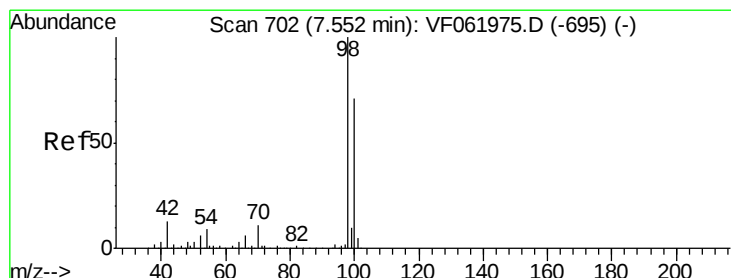
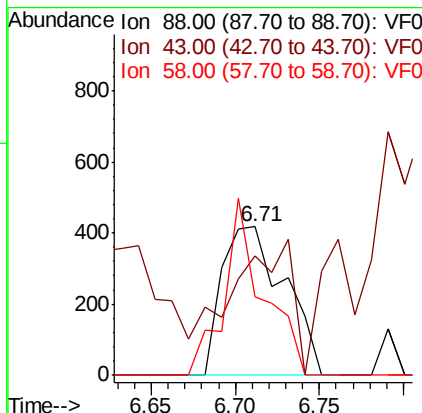
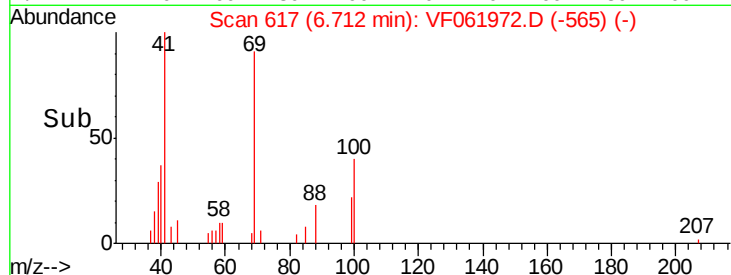
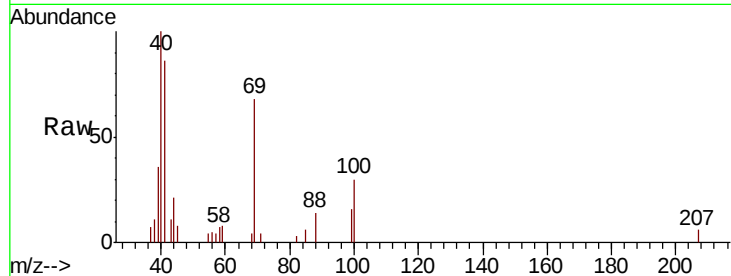
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	80.6	31.2	46.8#
58	52.9	69.9	104.9#

Manual Integrations
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#50

Toluene-d8

Concen: 5.228 ug/l

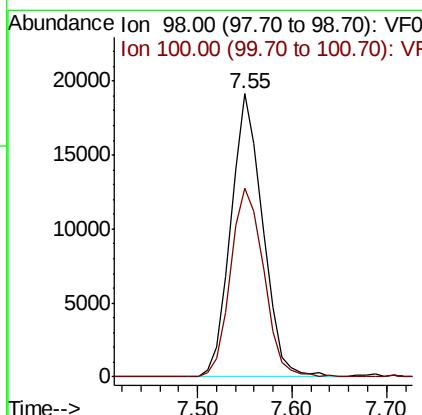
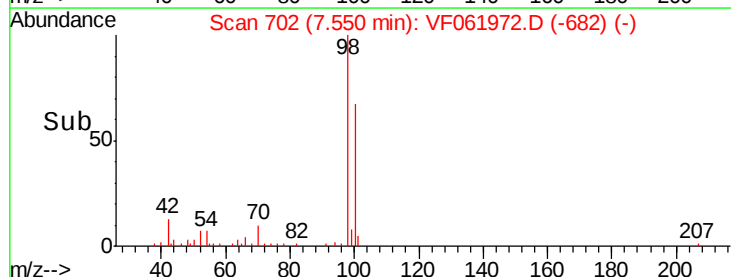
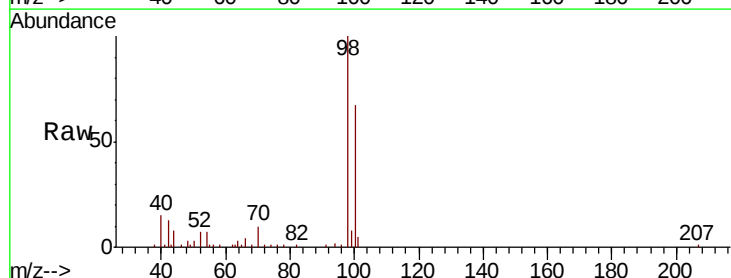
RT: 7.55 min Scan# 702

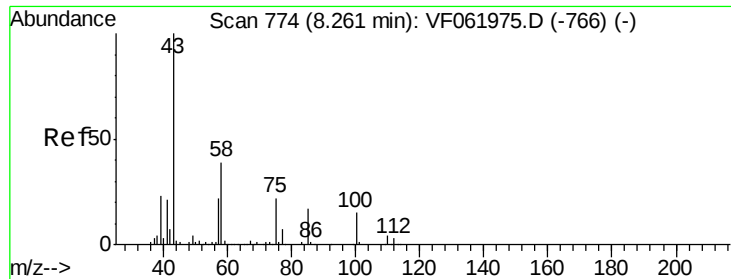
Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.7	56.8	85.2





#51

4-Methyl-2-Pentanone

Concen: 26.763 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 39554

Ion Ratio Lower Upper

43 100

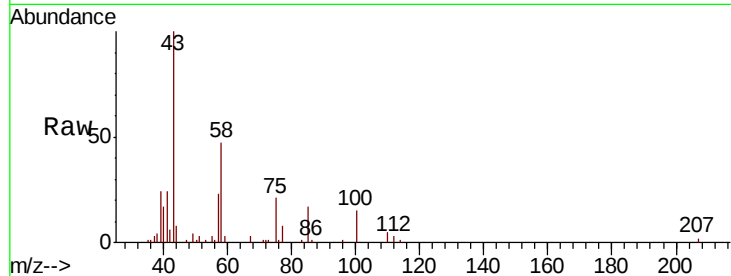
58 47.1 31.1 46.7#

Manual Integrations

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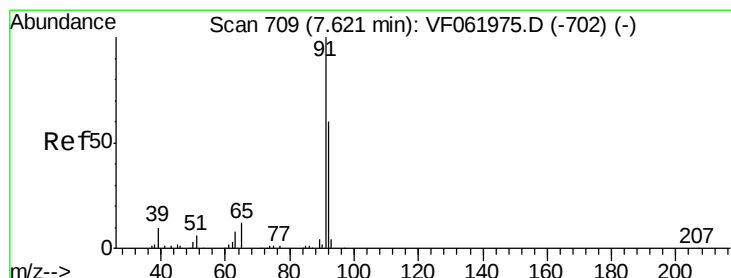
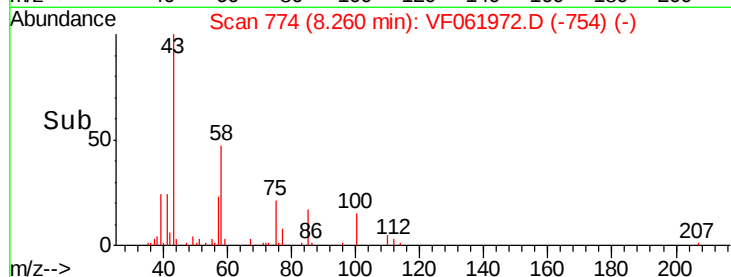
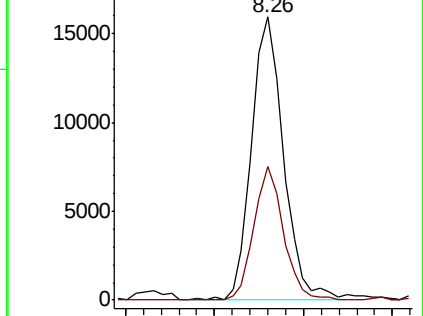
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 5.589 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.00 min

Lab File: VF061972.D

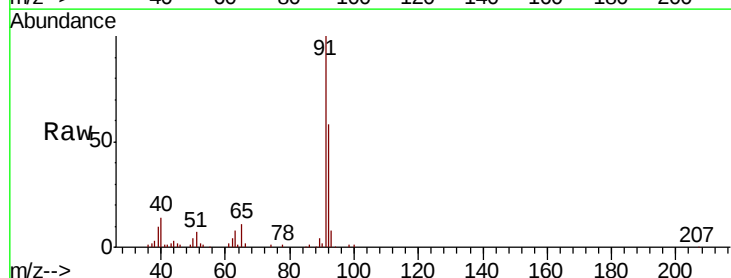
Acq: 16 Mar 2019 10:14

Tgt Ion: 92 Resp: 35452

Ion Ratio Lower Upper

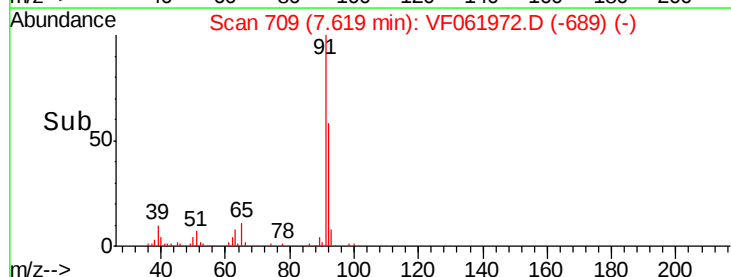
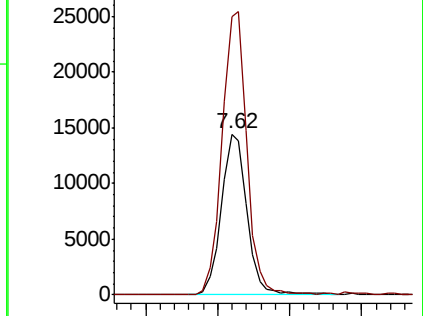
92 100

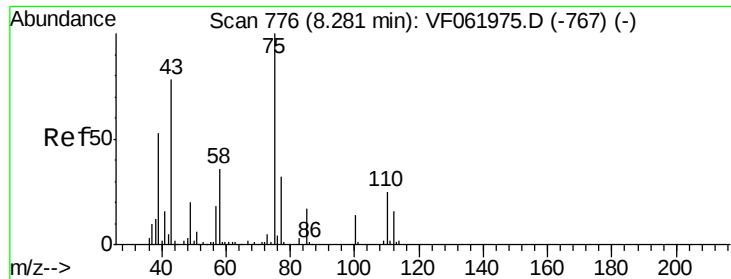
91 173.1 134.0 201.0



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: 5.289 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tot Ion: 75 Resp: 15385

Ion Ratio Lower Upper

75 100

77 28.9 25.5 38.3

Instrument :

MSVOA_F

ClientSampleId :

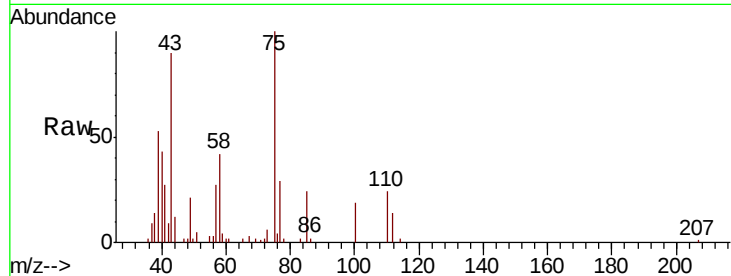
VSTDIC005

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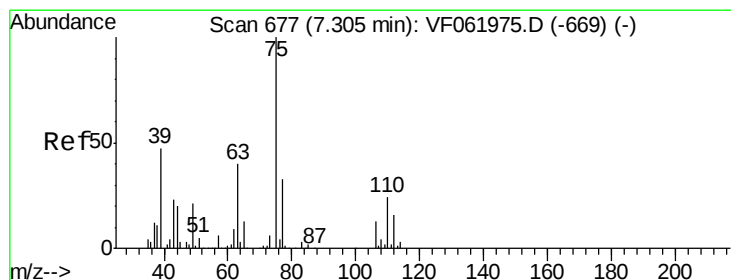
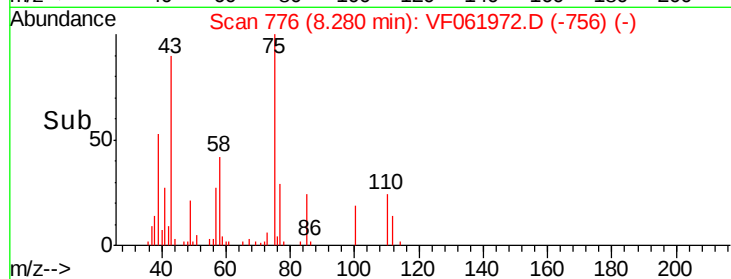
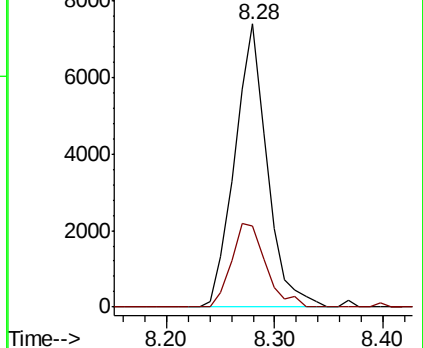
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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 4.811 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

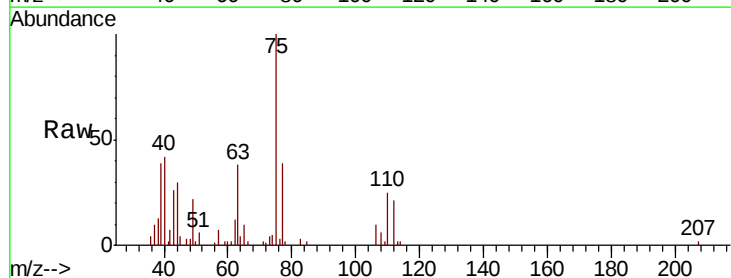
Tgt Ion: 75 Resp: 18259

Ion Ratio Lower Upper

75 100

77 38.8 26.4 39.6

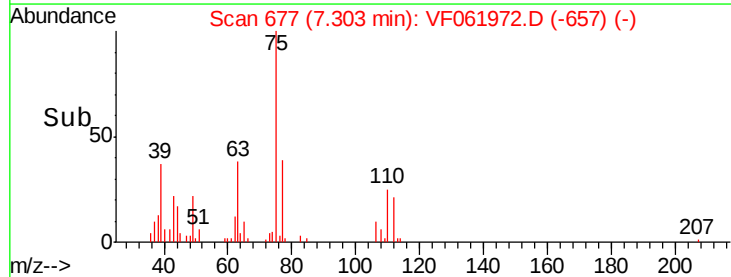
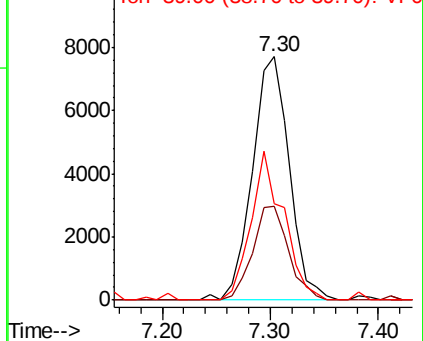
39 39.5 38.0 57.0

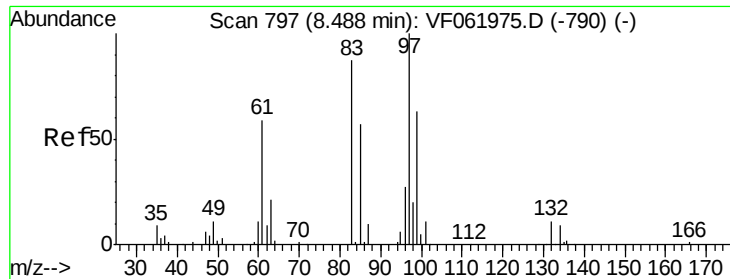


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 5.164 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

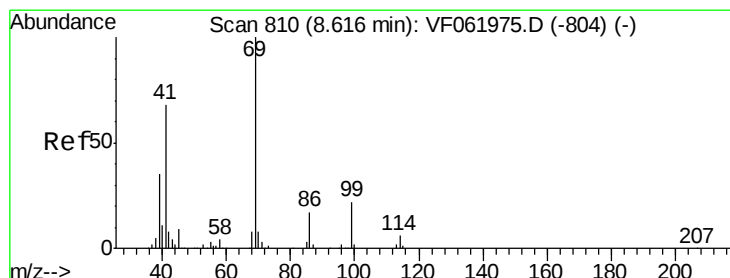
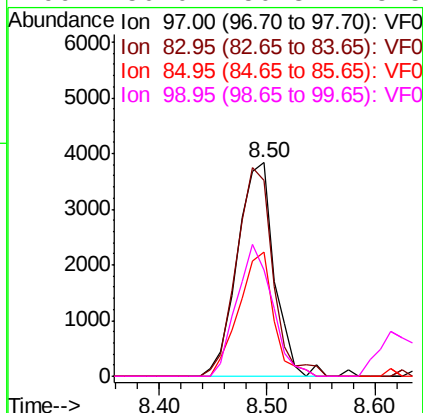
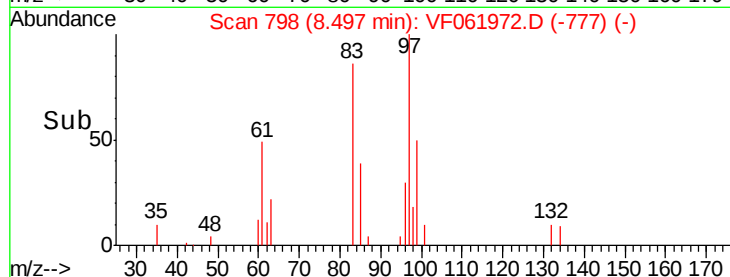
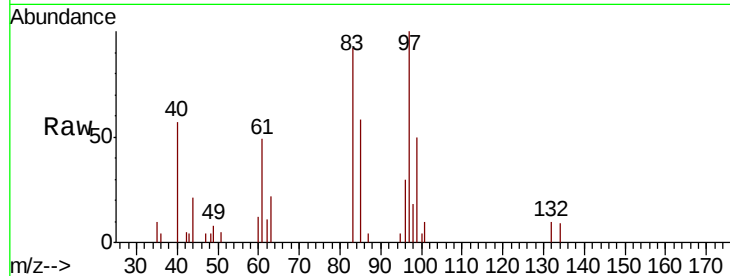
ClientSampleId :

VSTDIC005

Tot Ion:	97	Resp:	9141
Ion	Ratio	Lower	Upper
97	100		
83	92.0	69.7	104.5
85	58.0	45.8	68.6
99	50.0	50.3	75.5#

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#56

Ethyl methacrylate

Concen: 5.273 ug/l

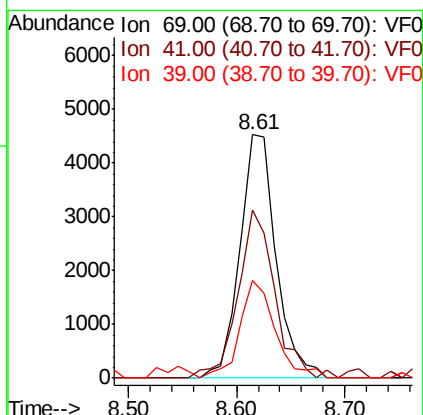
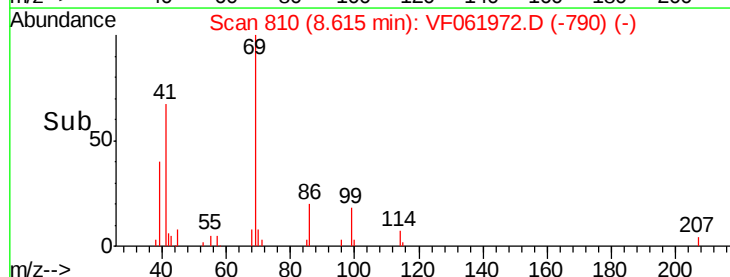
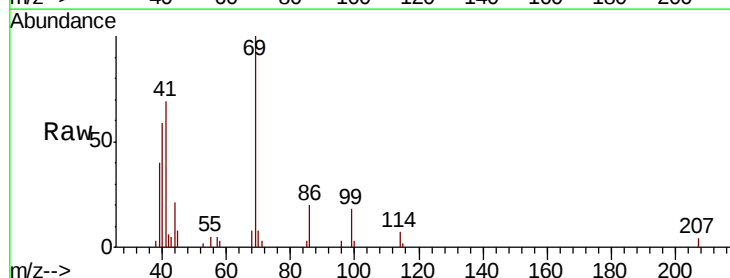
RT: 8.61 min Scan# 810

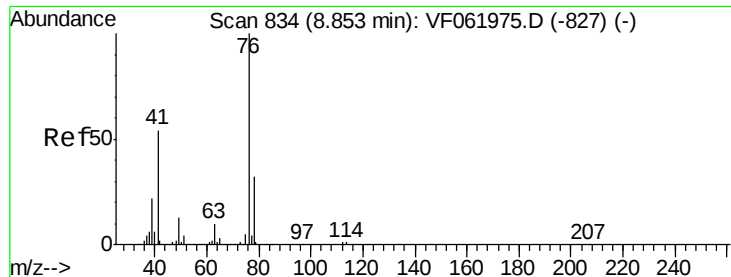
Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion:	69	Resp:	10611
Ion	Ratio	Lower	Upper
69	100		
41	69.1	54.7	82.1
39	40.2	27.9	41.9





#57

1,3-Dichloropropane

Concen: 4.970 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 14676

Ion Ratio Lower Upper

76 100

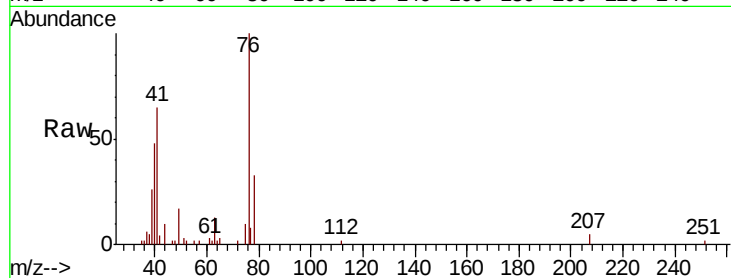
78 32.7 25.4 38.2

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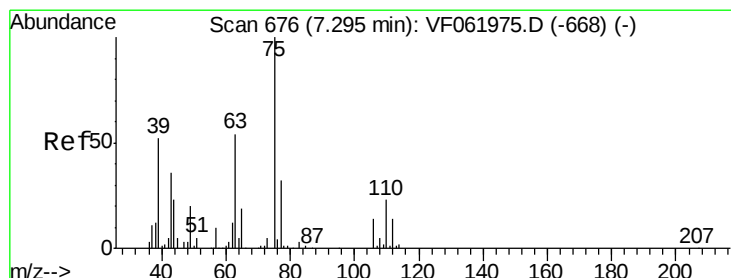
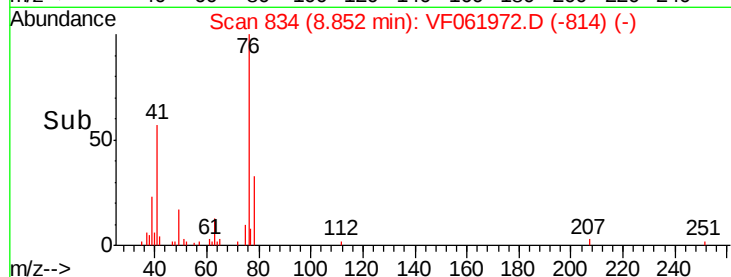
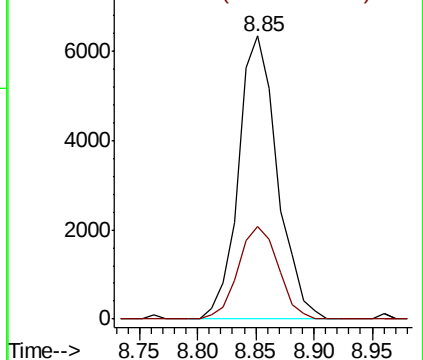
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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 24.365 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061972.D

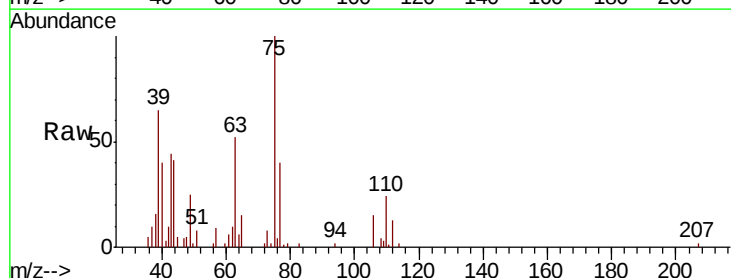
Acq: 16 Mar 2019 10:14

Tgt Ion: 63 Resp: 8881

Ion Ratio Lower Upper

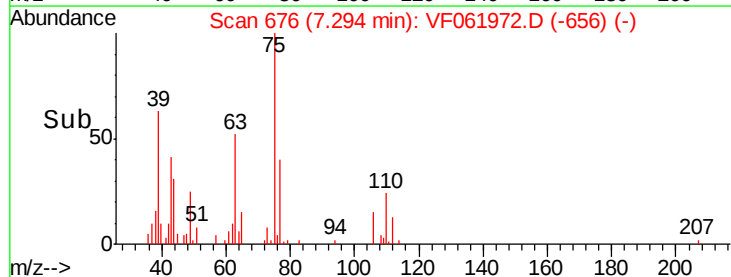
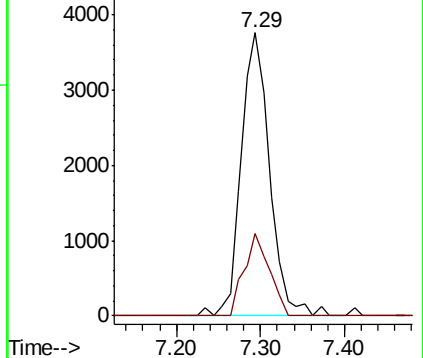
63 100

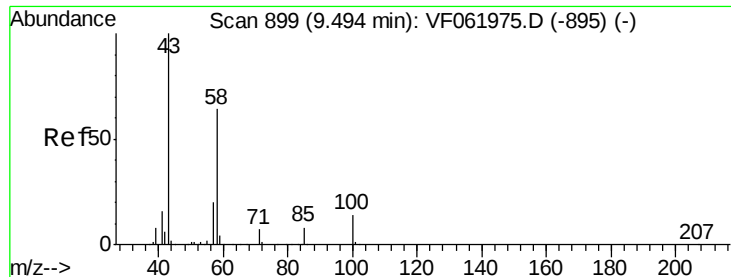
106 29.2 20.9 31.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





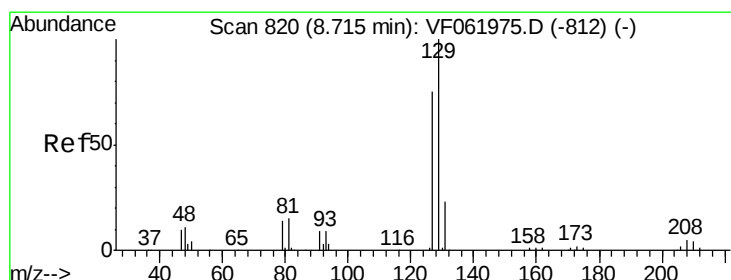
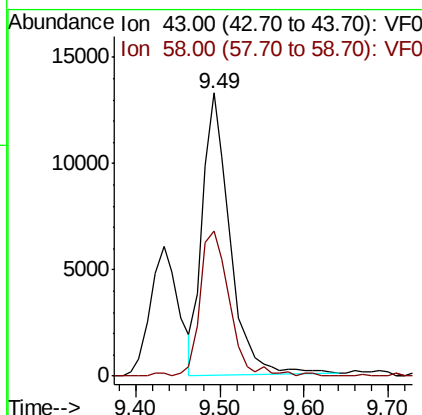
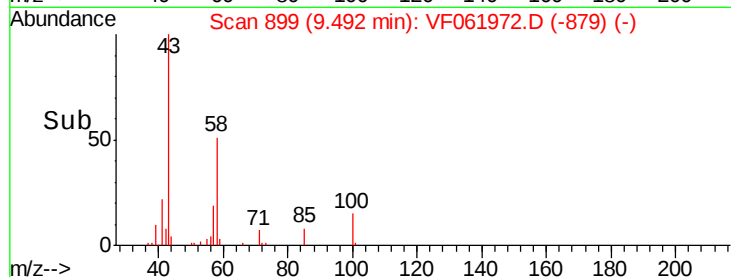
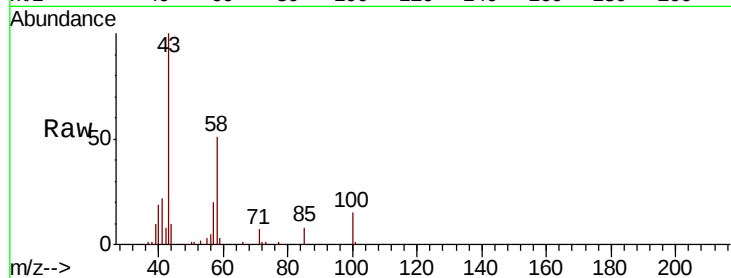
#59
2-Hexanone
Concen: 27.984 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 29931
Ion Ratio Lower Upper
43 100
58 51.2 28.4 85.2

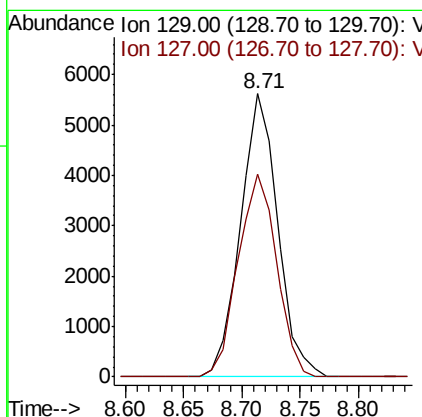
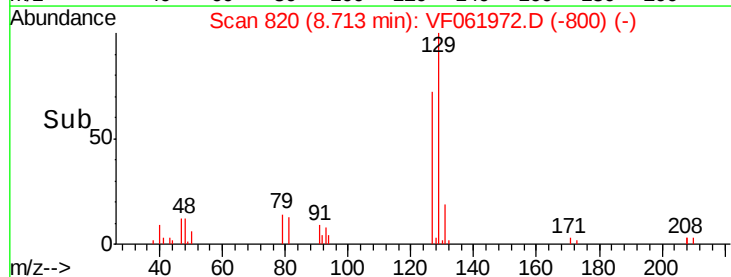
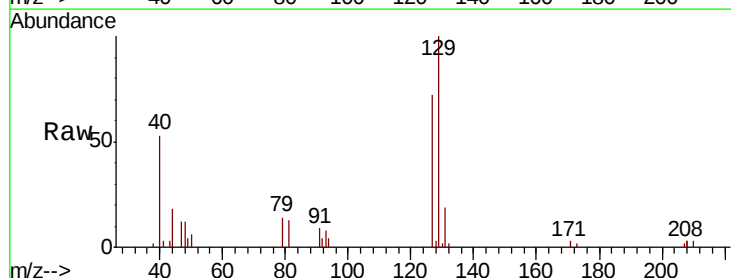
Manual Integrations
APPROVED

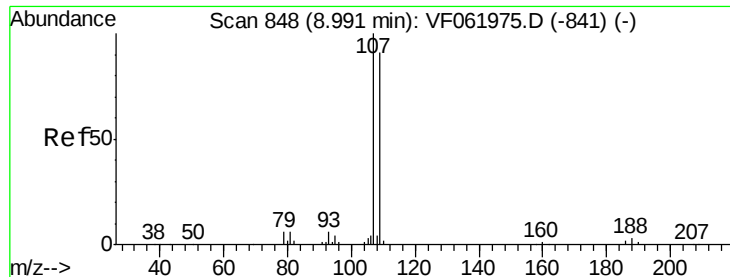
MMDadoda
3/22/2019 6:18:41 PM



#60
Dibromochloromethane
Concen: 5.069 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion: 129 Resp: 12458
Ion Ratio Lower Upper
129 100
127 71.6 37.3 111.8





#61

1,2-Dibromoethane

Concen: 5.113 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 107 Resp: 9708

Ion Ratio Lower Upper

107 100

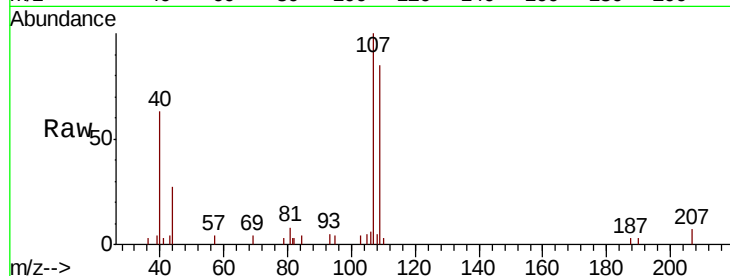
109 84.9 72.8 109.2

Manual Integrations

APPROVED

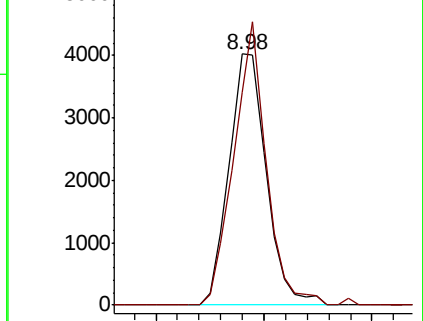
MMDadoda

3/22/2019 6:18:41 PM

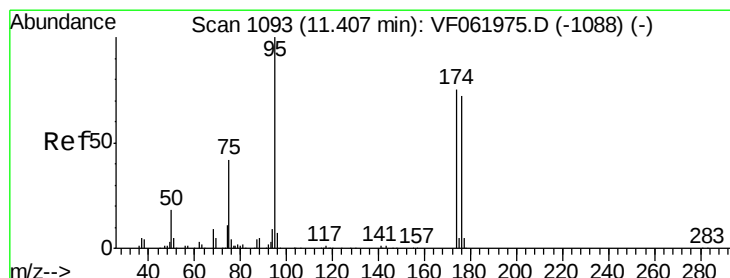
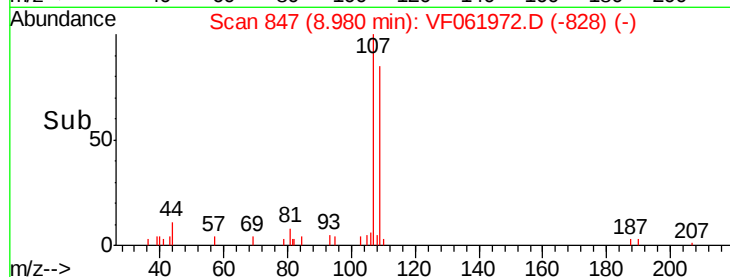


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



Time-->



#62

4-Bromofluorobenzene

Concen: 5.664 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

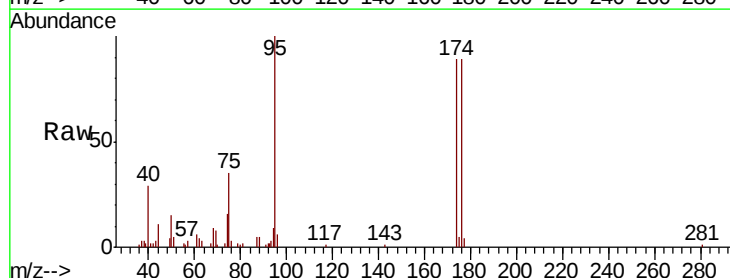
Tgt Ion: 95 Resp: 19164

Ion Ratio Lower Upper

95 100

174 88.6 0.0 149.4

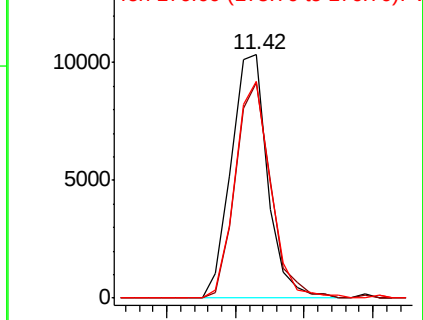
176 89.1 0.0 143.4



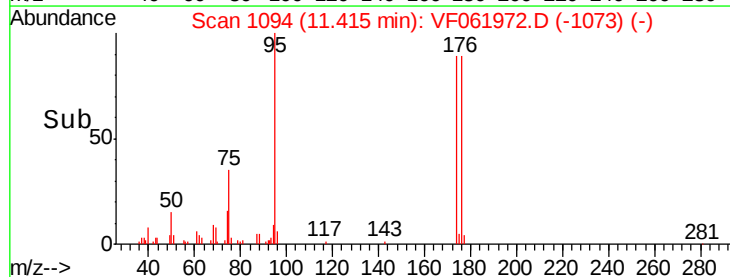
Abundance Ion 95.00 (94.70 to 95.70): VF0

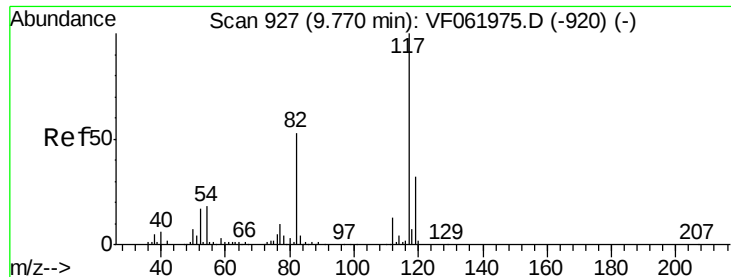
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



Time-->





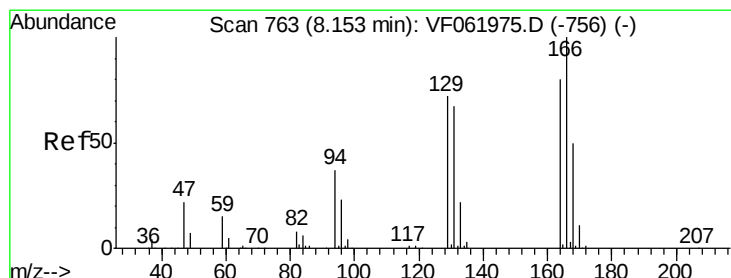
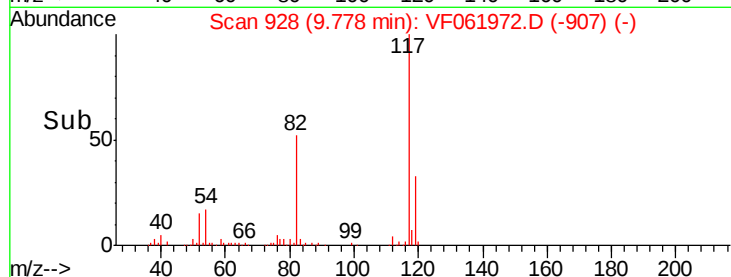
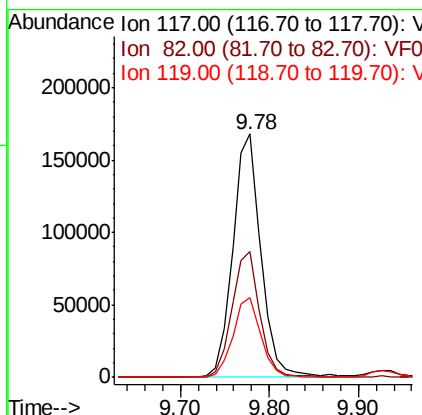
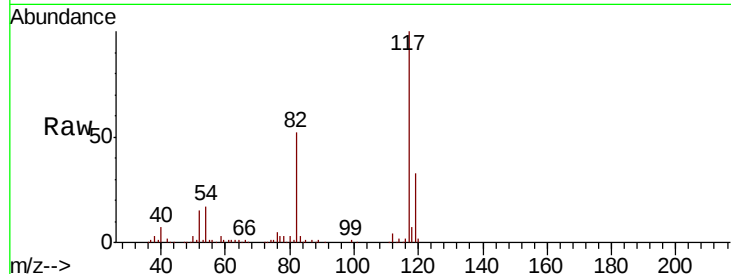
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	42.5	63.7
119	32.9	25.4	38.0

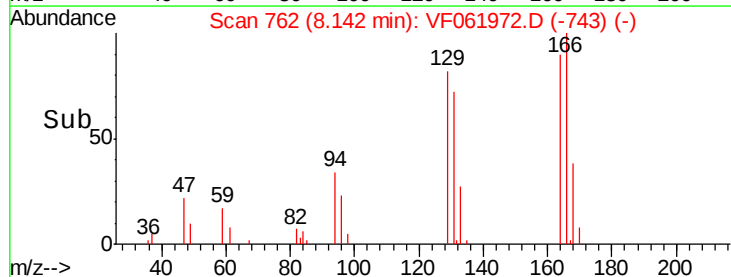
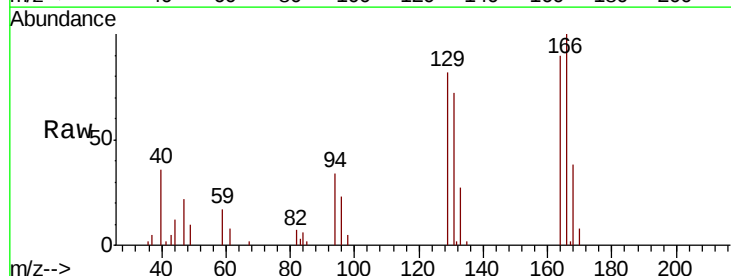
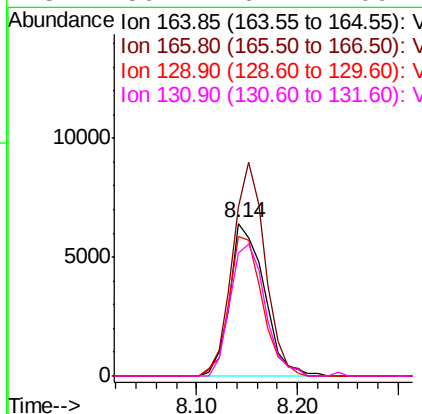
Manual Integrations
APPROVED

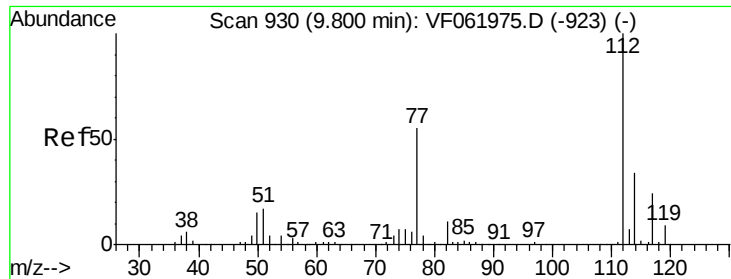
MMDadoda
3/22/2019 6:18:41 PM



#64
Tetrachloroethene
Concen: 5.658 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.01 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	110.9	100.0	150.0
129	91.0	72.4	108.6
131	80.4	67.1	100.7





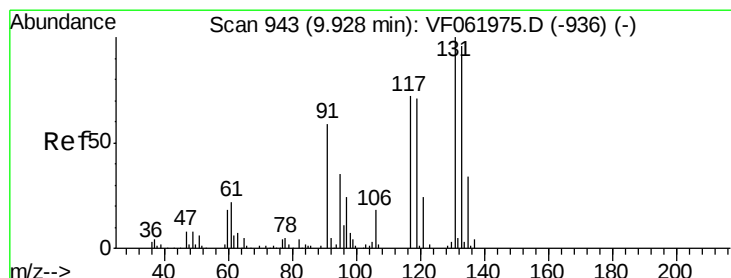
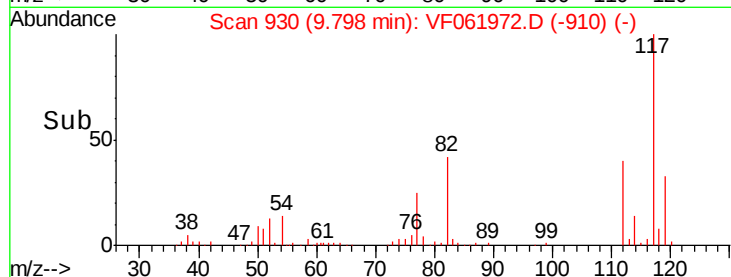
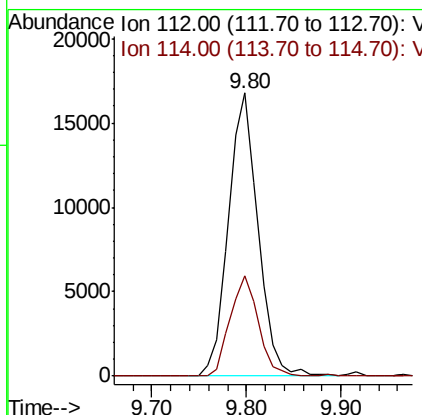
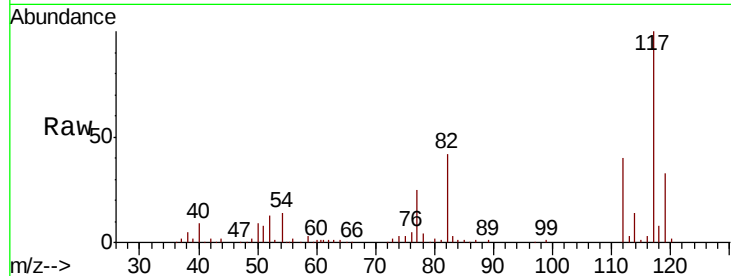
#65
Chlorobenzene
Concen: 5.286 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 36428
Ion Ratio Lower Upper
112 100
114 35.6 26.9 40.3

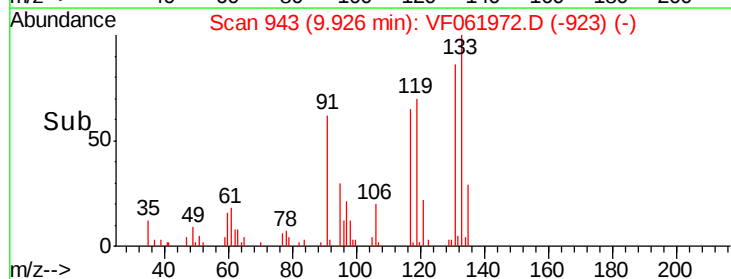
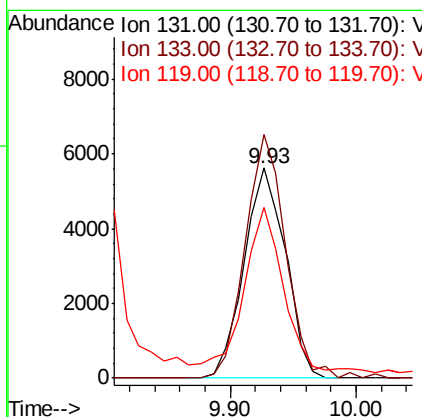
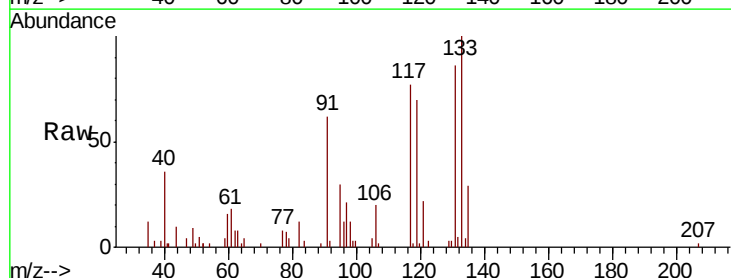
Manual Integrations
APPROVED

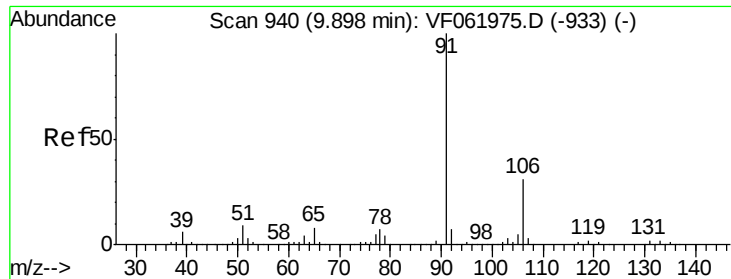
MMDadoda
3/22/2019 6:18:41 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.787 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion:131 Resp: 12787
Ion Ratio Lower Upper
131 100
133 116.1 48.0 144.2
119 81.3 35.9 107.7





#67

Ethyl Benzene

Concen: 5.515 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 65071

Ion Ratio Lower Upper

91 100

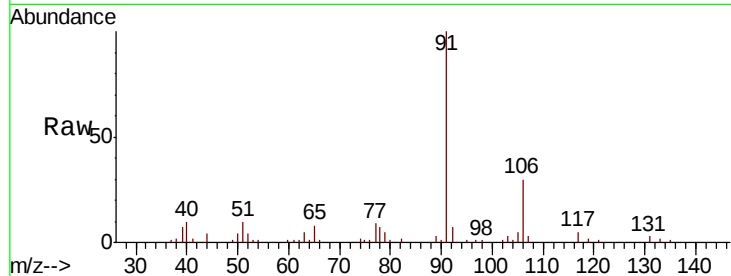
106 29.6 24.4 36.6

Manual Integrations

APPROVED

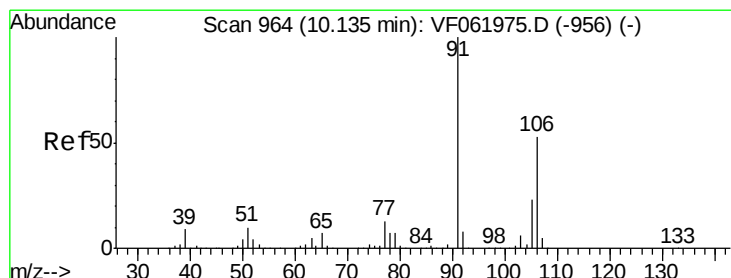
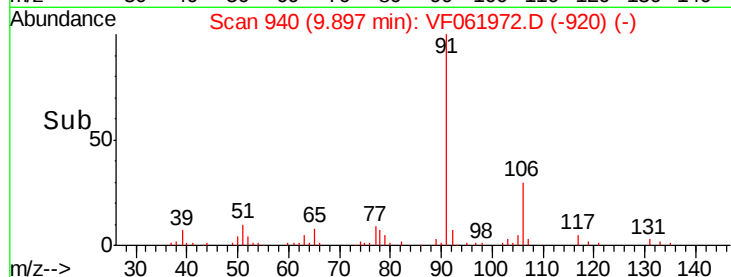
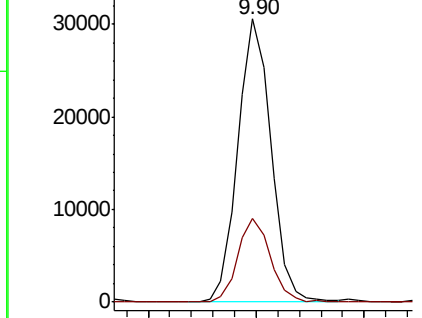
MMDadoda

3/22/2019 6:18:41 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 10.959 ug/l

RT: 10.12 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061972.D

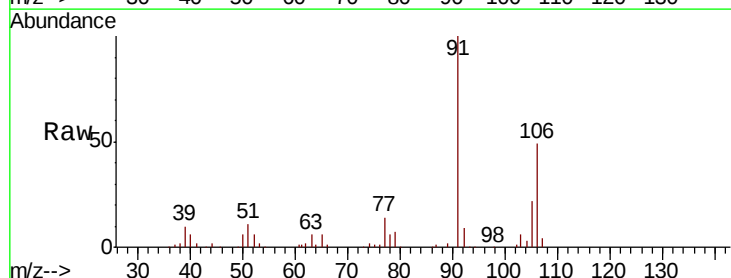
Acq: 16 Mar 2019 10:14

Tgt Ion: 106 Resp: 48636

Ion Ratio Lower Upper

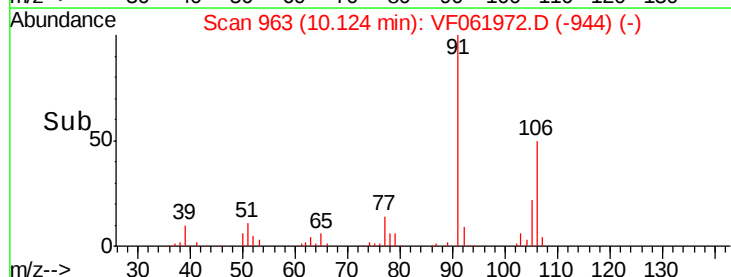
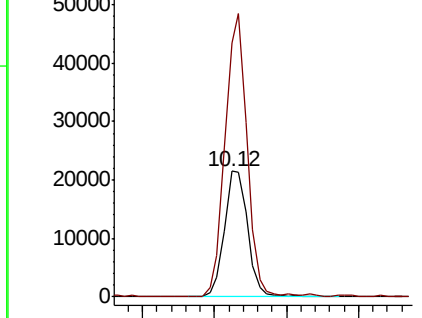
106 100

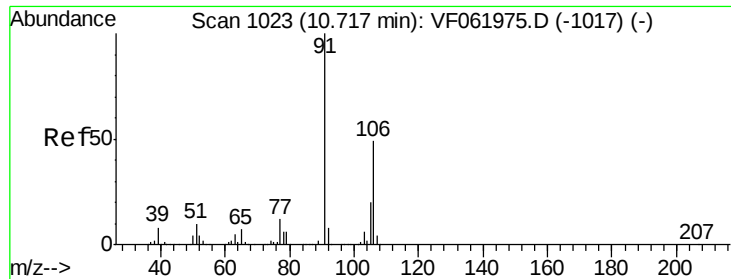
91 202.1 151.9 227.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





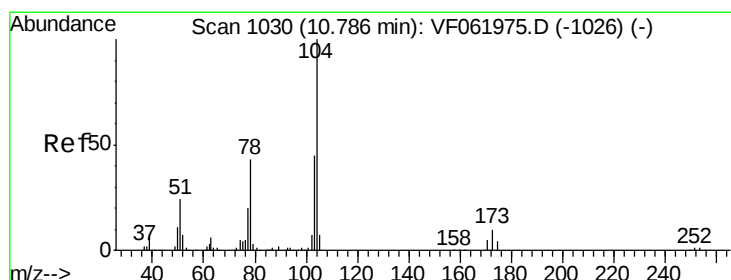
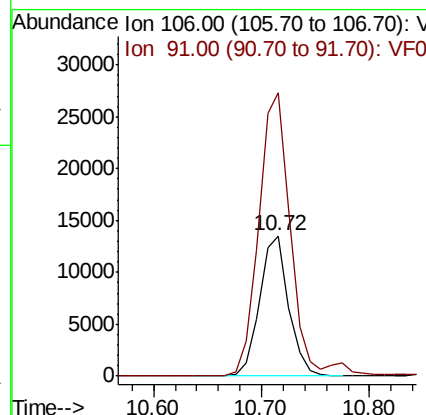
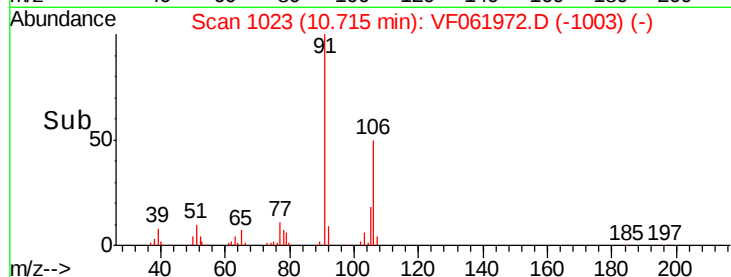
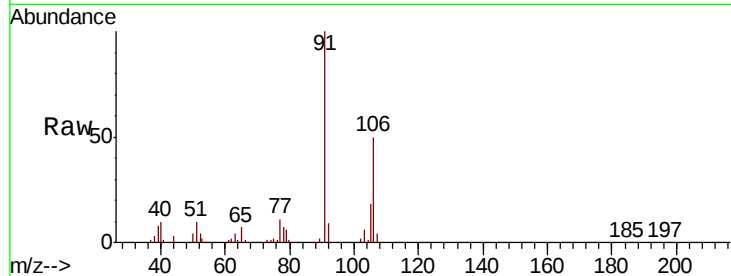
#69
o-Xylene
Concen: 5.301 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
106	100		
91	201.8	102.3	306.8

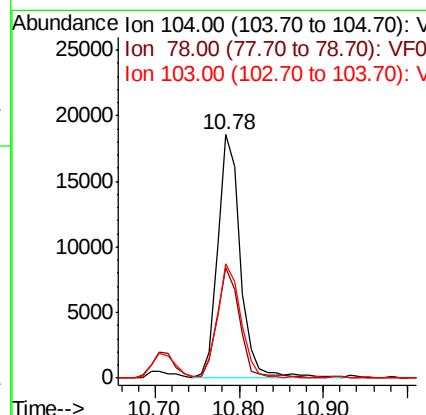
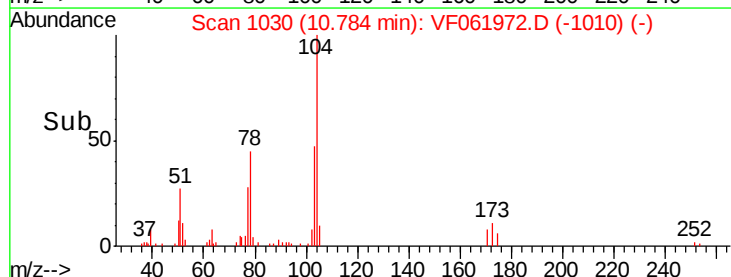
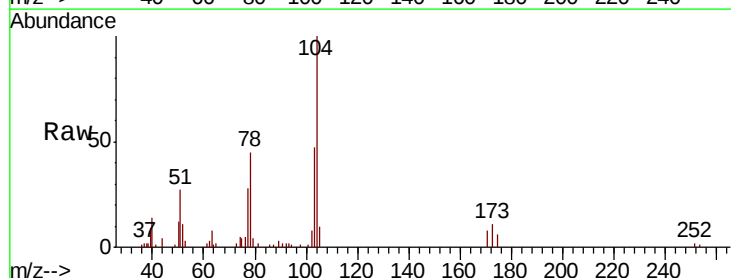
Manual Integrations
APPROVED

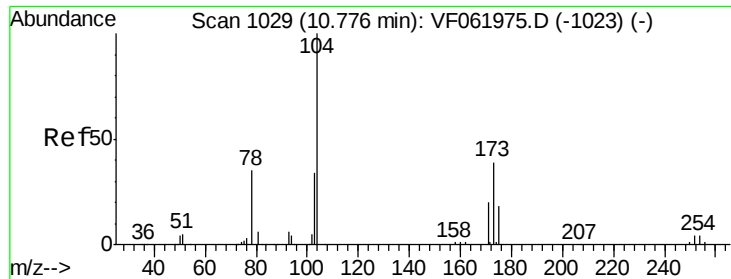
MMDadoda
3/22/2019 6:18:41 PM



#70
Styrene
Concen: 5.288 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
104	100		
78	45.2	34.7	52.1
103	47.2	36.6	54.8





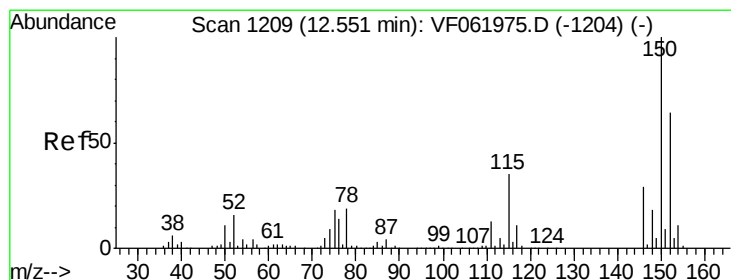
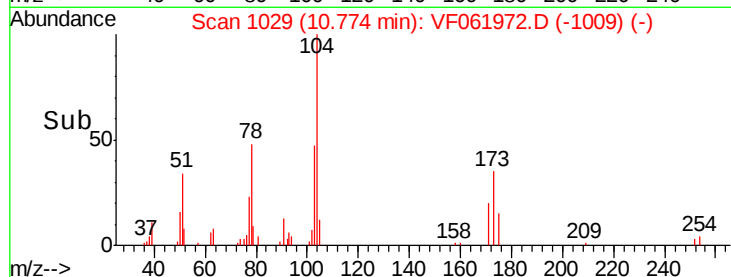
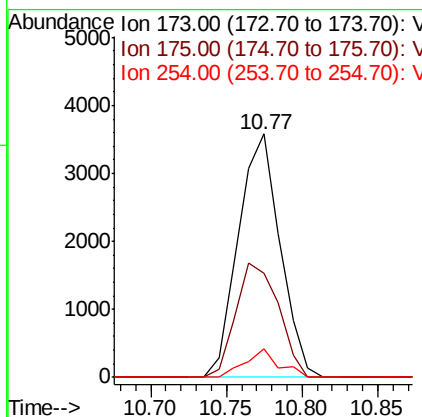
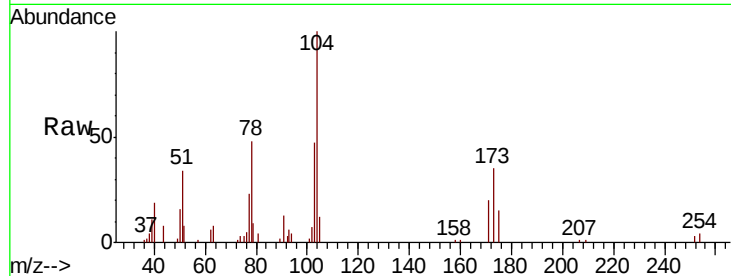
#71
Bromoform
Concen: 5.107 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	42.6	23.7	71.1
254	11.5	7.8	11.8

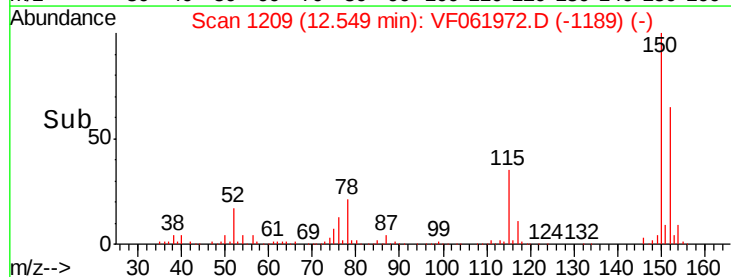
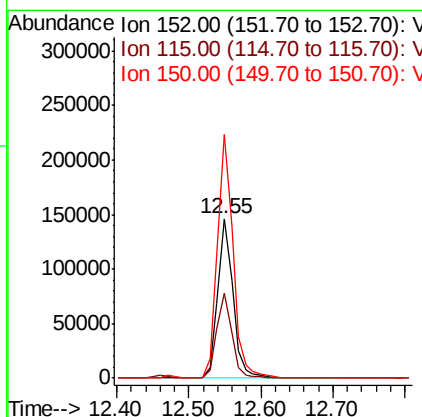
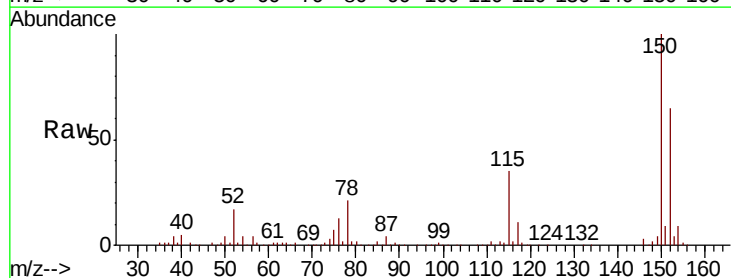
Manual Integrations
APPROVED

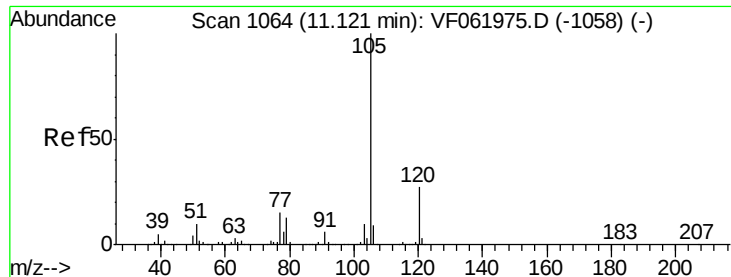
MMDadoda
3/22/2019 6:18:41 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.0	27.3	81.9
150	152.8	0.0	316.2





#73

Isopropylbenzene

Concen: 5.093 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 74651

Ion Ratio Lower Upper

105 100

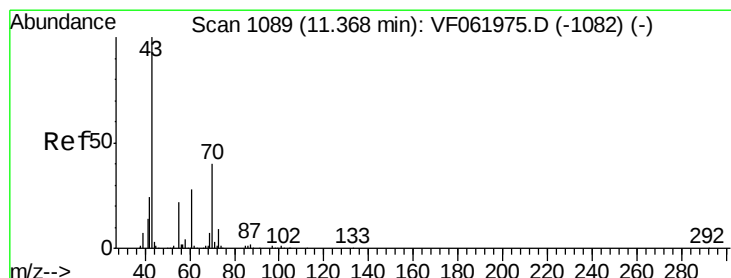
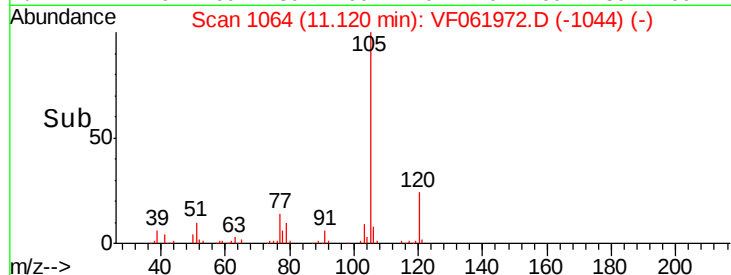
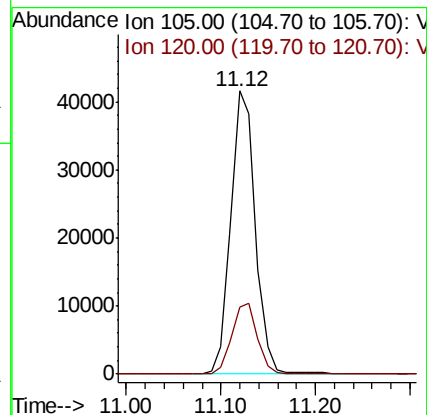
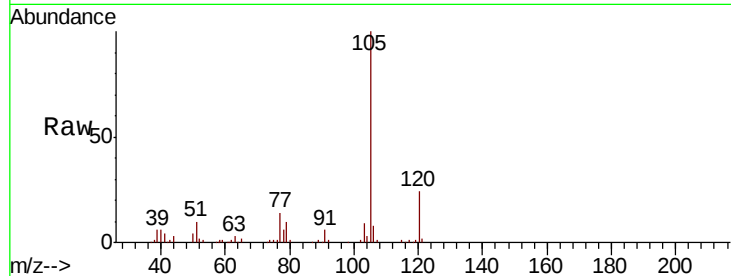
120 23.6 13.8 41.3

Manual Integrations

APPROVED

MMDadoda

3/22/2019 6:18:41 PM



#74

N-ethyl acetate

Concen: 4.529 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion: 43 Resp: 15212

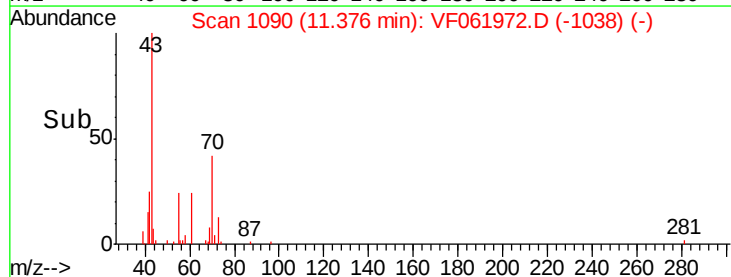
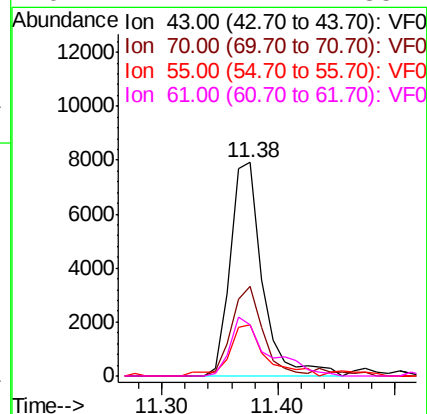
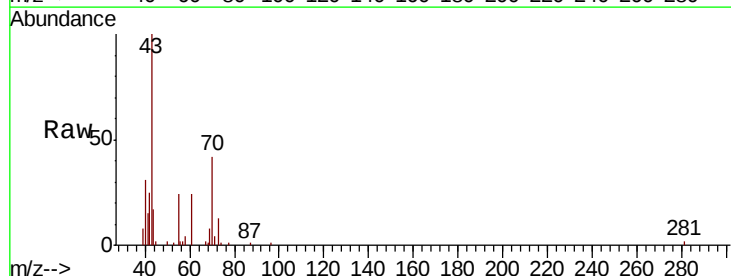
Ion Ratio Lower Upper

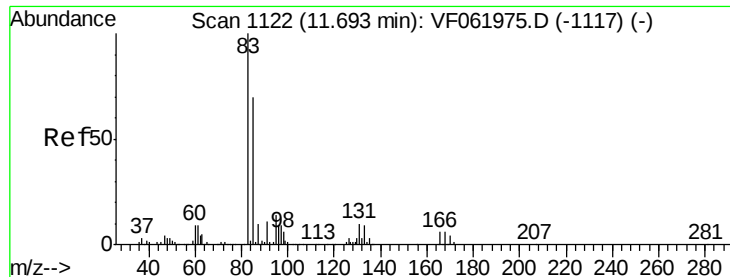
43 100

70 42.2 31.9 47.9

55 24.0 17.9 26.9

61 24.2 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 5.200 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

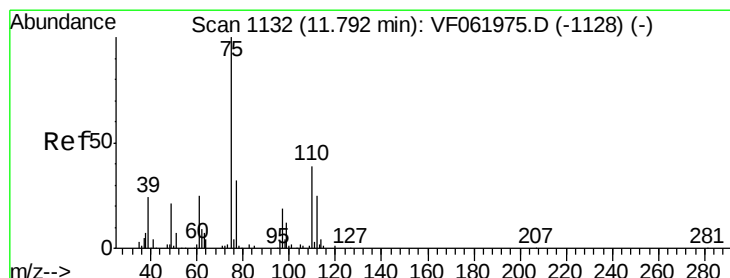
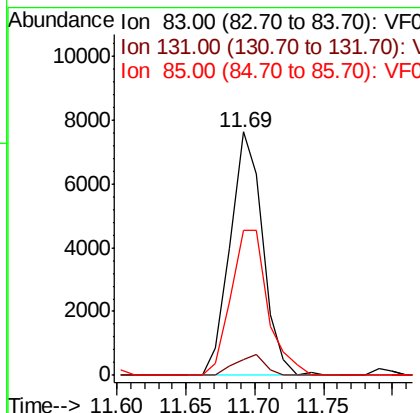
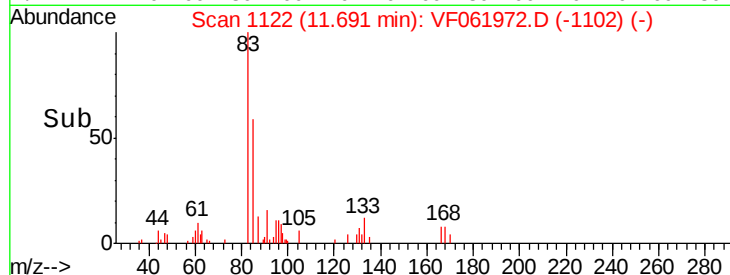
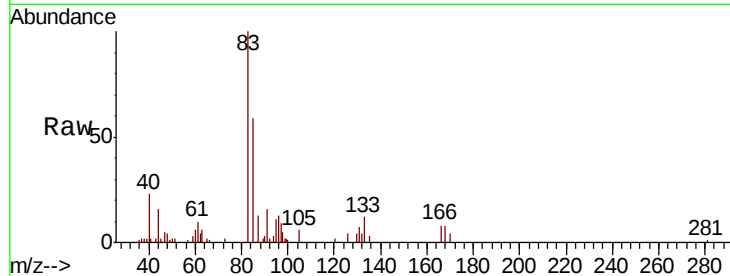
ClientSampleId :

VSTDIC005

Tot Ion	83	Resp	12581
Ion	Ratio	Lower	Upper
83	100		
131	6.7	4.9	14.7
85	59.4	35.3	105.9

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#76

1,2,3-Trichloropropane

Concen: 4.912 ug/l

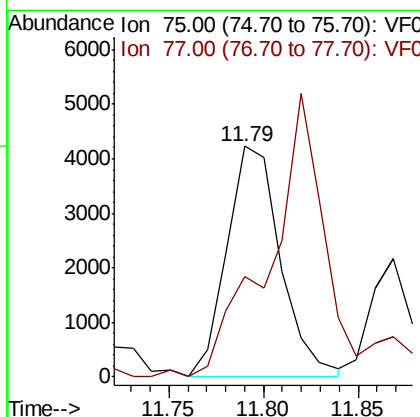
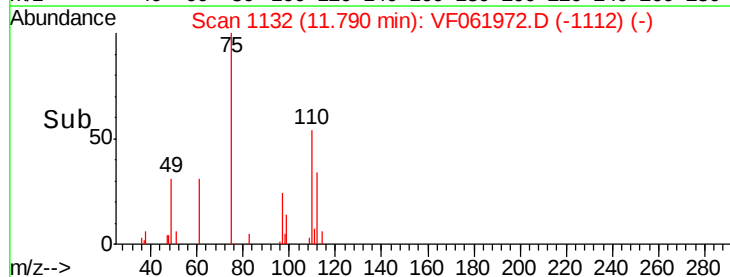
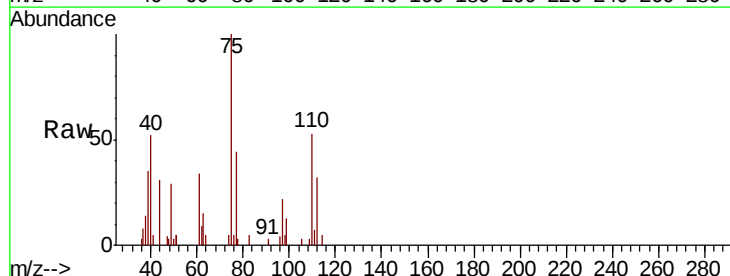
RT: 11.79 min Scan# 1132

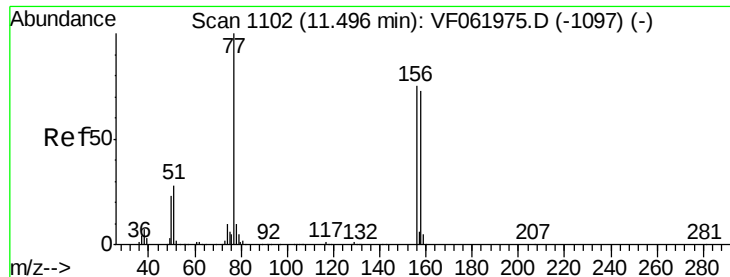
Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion	75	Resp	8309
Ion	Ratio	Lower	Upper
75	100		
77	43.6	16.4	49.2





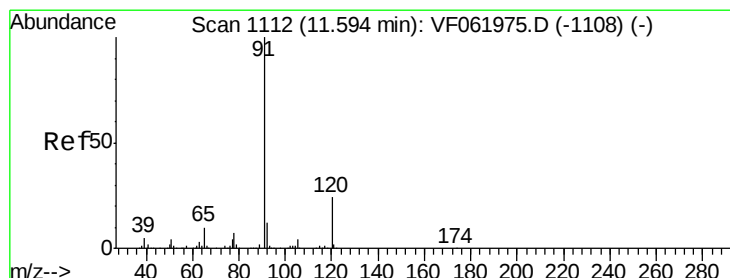
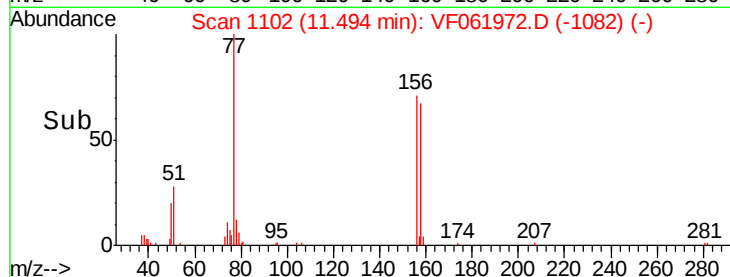
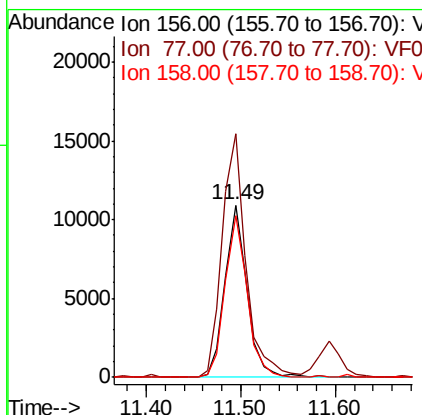
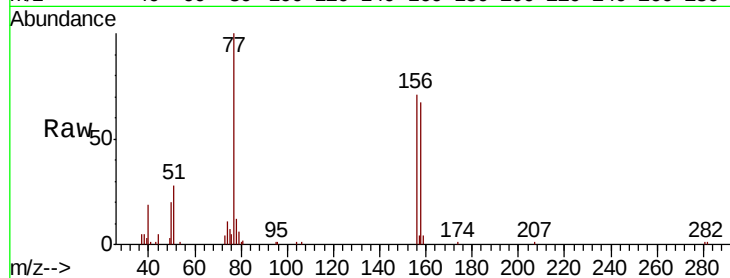
#77
Bromobenzene
Concen: 5.193 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	141.6	67.0	201.0
158	94.2	48.9	146.7

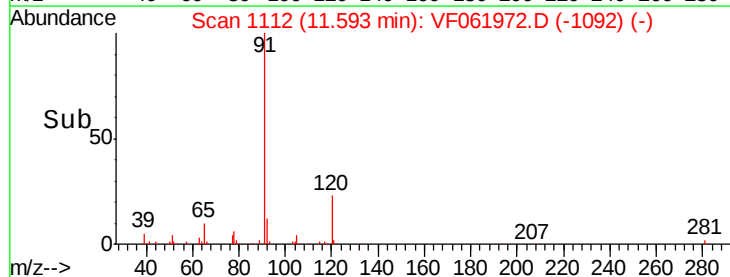
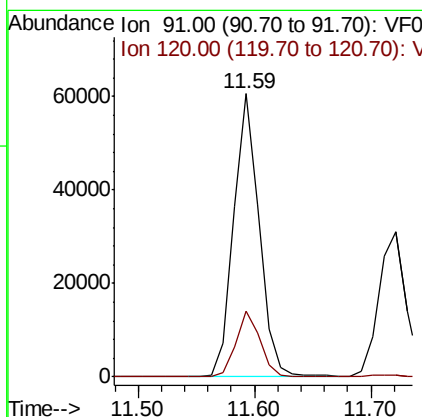
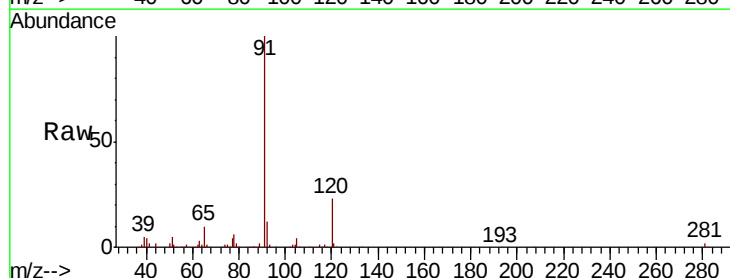
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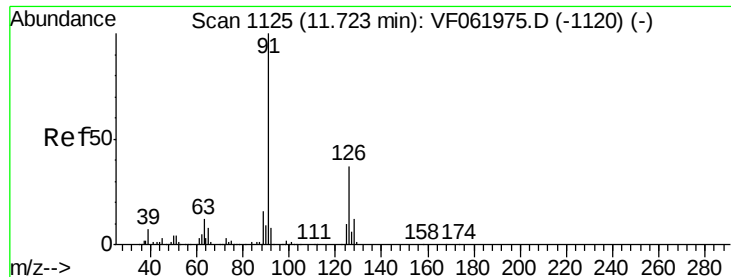
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#78
n-propylbenzene
Concen: 5.495 ug/l
RT: 11.59 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.8	35.3





#79

2-Chlorotoluene

Concen: 5.284 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 50262

Ion Ratio Lower Upper

91 100

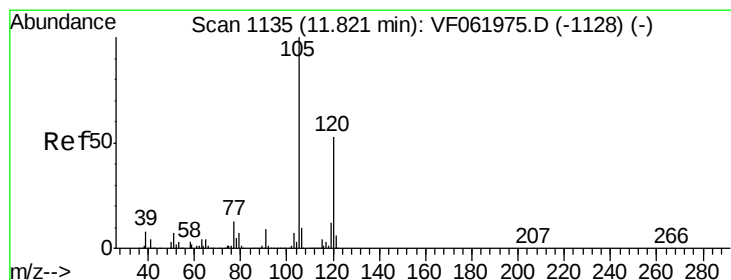
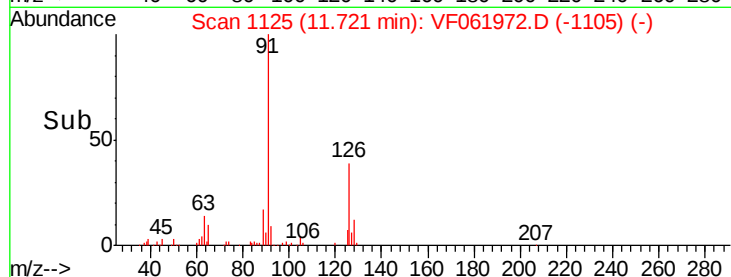
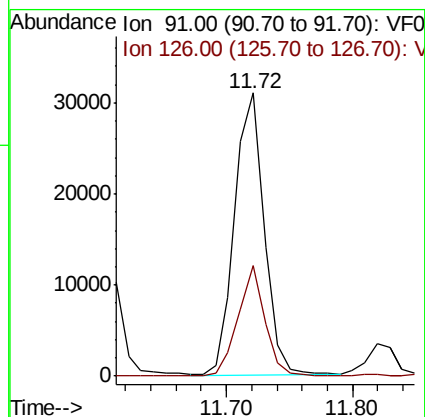
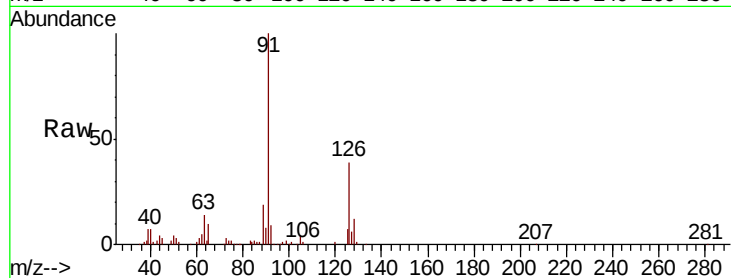
126 39.2 18.4 55.2

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#80

1,3,5-Trimethylbenzene

Concen: 5.486 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061972.D

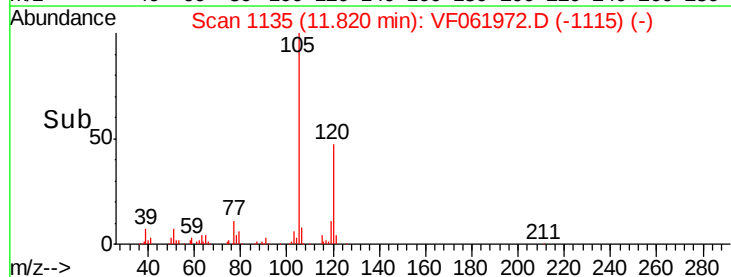
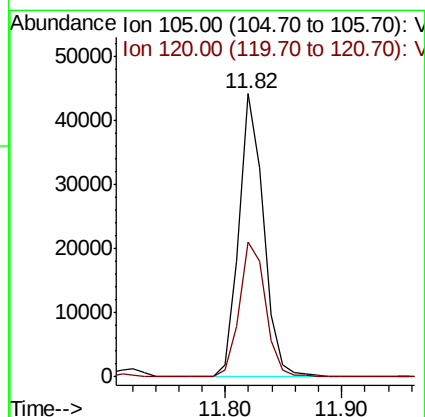
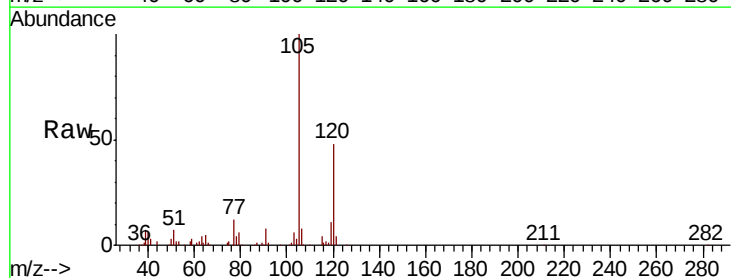
Acq: 16 Mar 2019 10:14

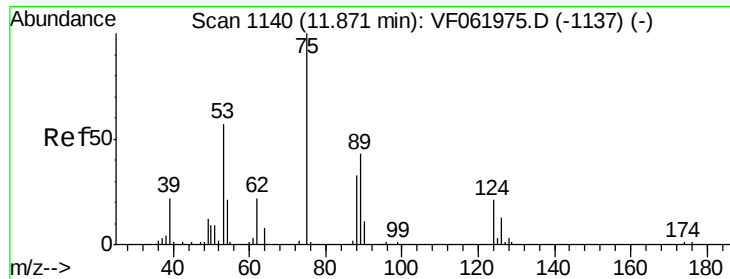
Tgt Ion: 105 Resp: 64953

Ion Ratio Lower Upper

105 100

120 47.6 26.6 79.7





#81

trans-1,4-Dichloro-2-butene

Concen: 4.031 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

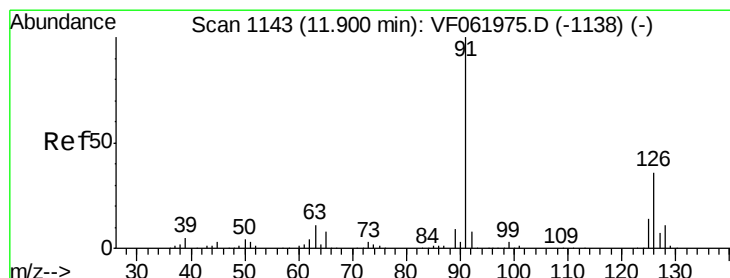
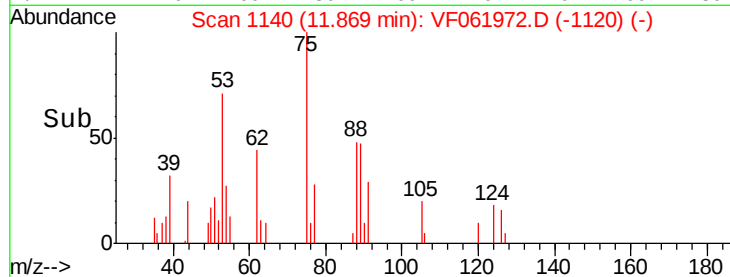
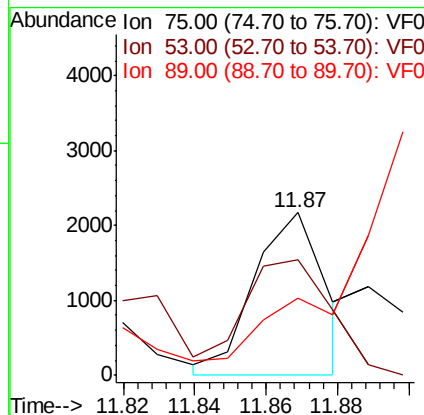
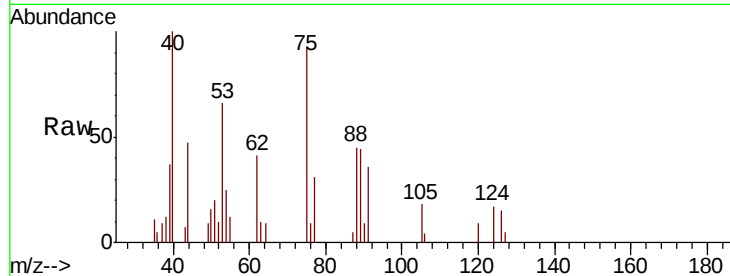
ClientSampled :

VSTDIC005

Tot Ion:	75	Resp:	3017
Ion	Ratio	Lower	Upper
75	100		
53	71.1	49.0	73.6
89	47.1	37.1	55.7

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#82

4-Chlorotoluene

Concen: 5.311 ug/l

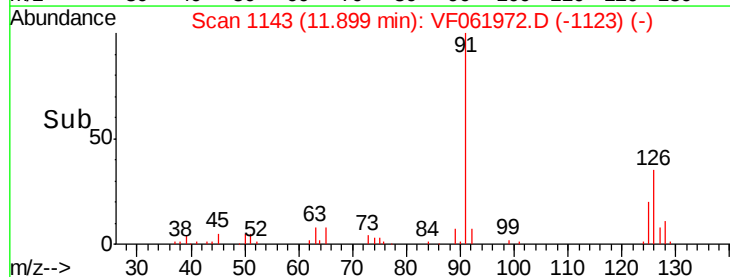
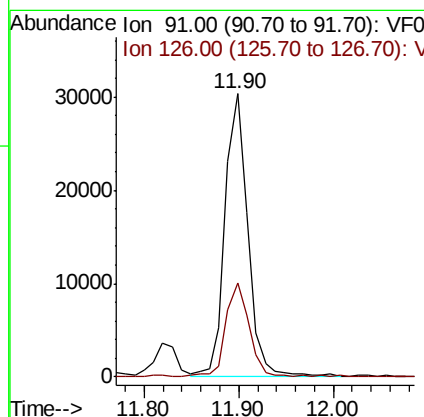
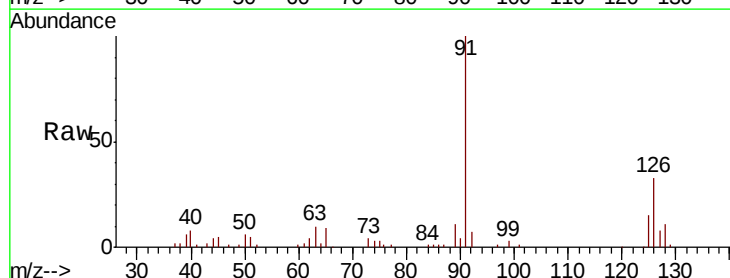
RT: 11.90 min Scan# 1143

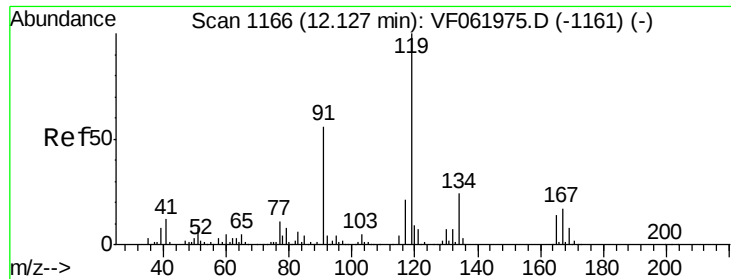
Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion:	91	Resp:	51090
Ion	Ratio	Lower	Upper
91	100		
126	33.3	18.1	54.1





#83

tert-Butylbenzene

Concen: 5.070 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Instrument :

MSVOA_F

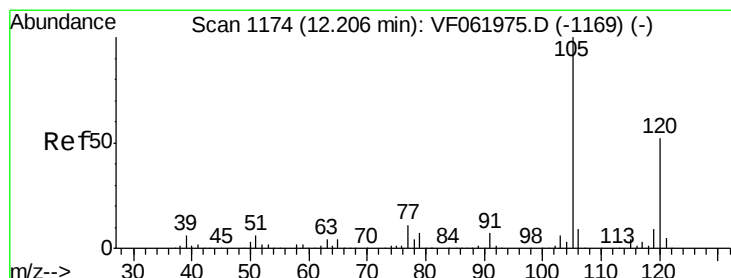
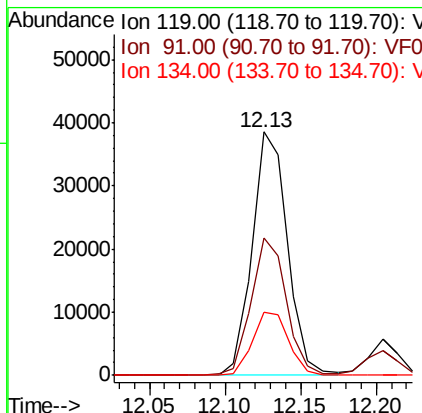
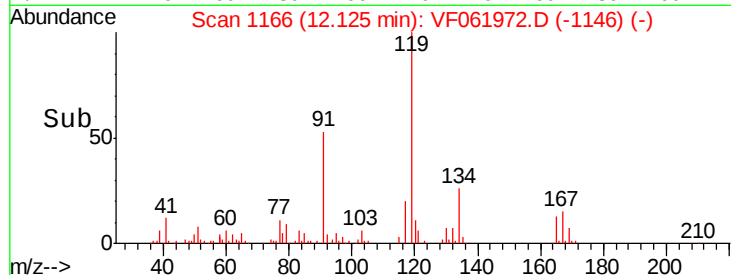
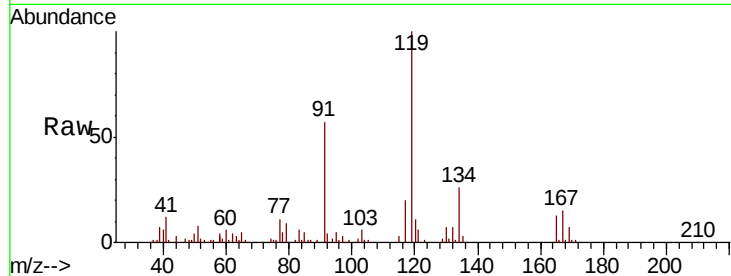
ClientSampleId :

VSTDIC005

Tot Ion:	119	Resp:	62780
Ion	Ratio	Lower	Upper
119	100		
91	56.5	27.9	83.6
134	26.1	12.3	36.8

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#84

1,2,4-Trimethylbenzene

Concen: 5.370 ug/l

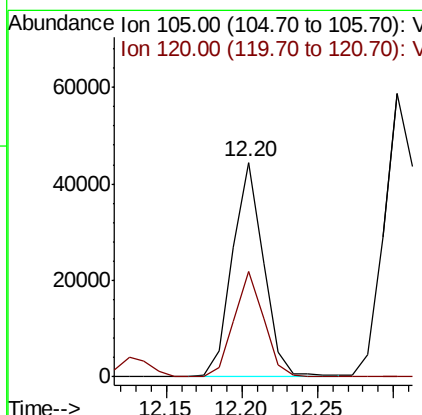
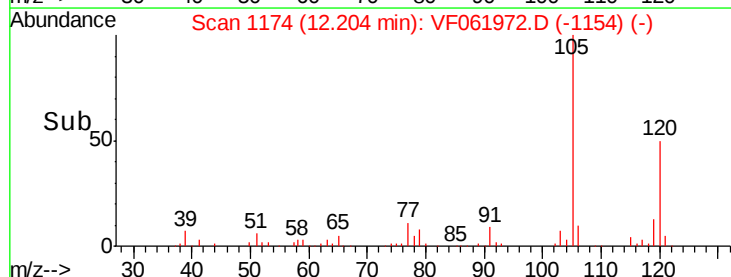
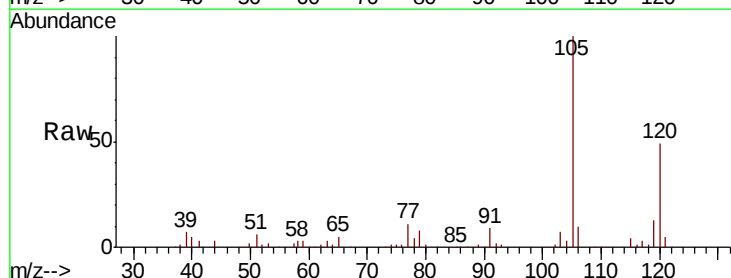
RT: 12.20 min Scan# 1174

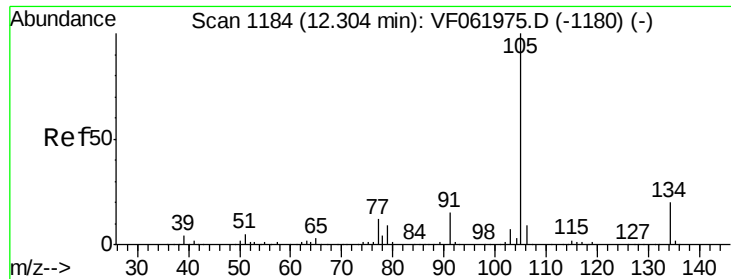
Delta R.T. -0.00 min

Lab File: VF061972.D

Acq: 16 Mar 2019 10:14

Tgt Ion:	105	Resp:	63688
Ion	Ratio	Lower	Upper
105	100		
120	49.4	25.9	77.8





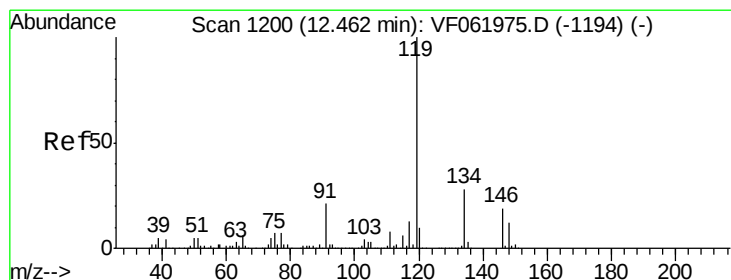
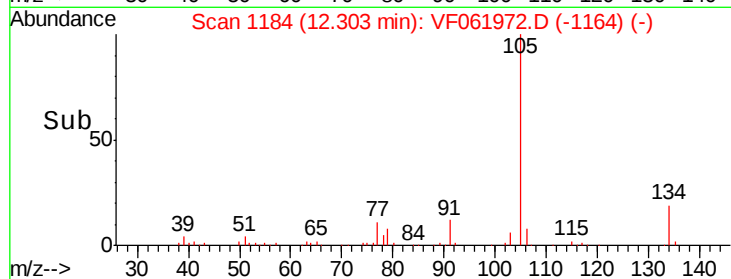
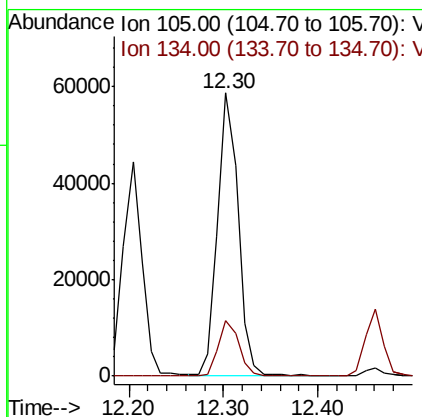
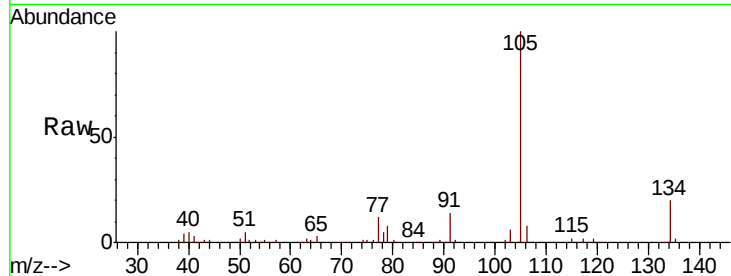
#85
 sec-Butylbenzene
 Concen: 5.342 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion:105 Resp: 89364
 Ion Ratio Lower Upper
 105 100
 134 19.8 10.0 29.8

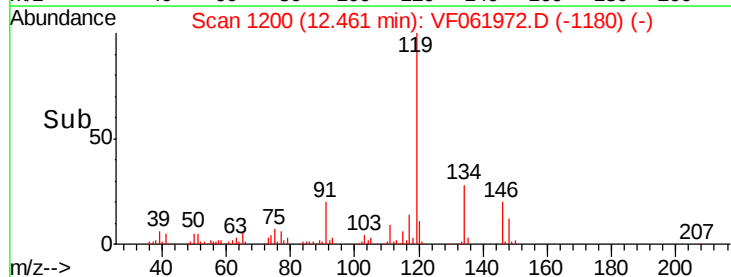
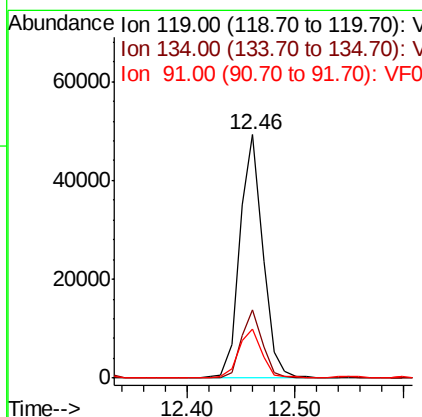
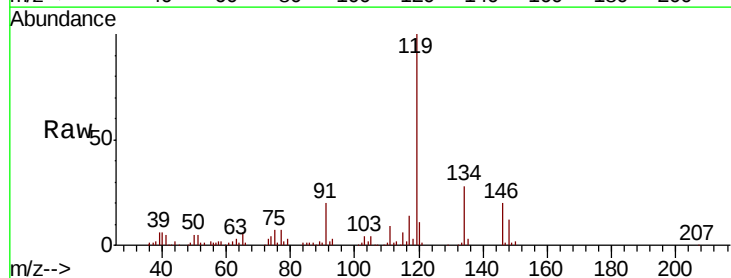
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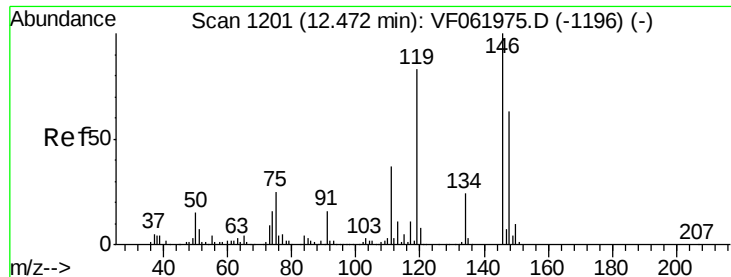
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#86
 p-Isopropyltoluene
 Concen: 5.216 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Tgt Ion:119 Resp: 72815
 Ion Ratio Lower Upper
 119 100
 134 28.0 13.9 41.7
 91 20.2 10.4 31.1





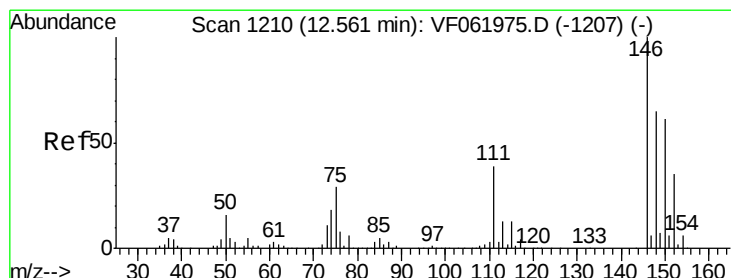
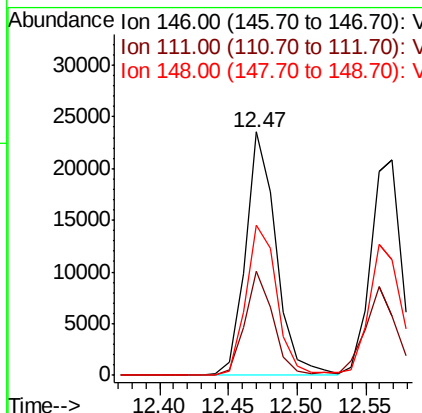
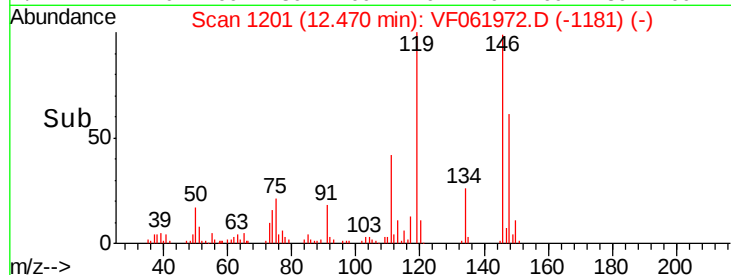
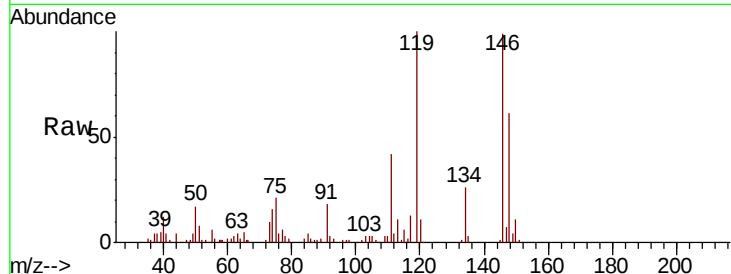
#87
 1,3-Dichlorobenzene
 Concen: 5.495 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.6	18.6	55.8
148	61.8	31.3	93.9

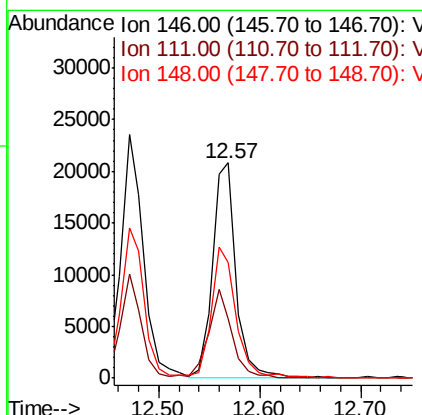
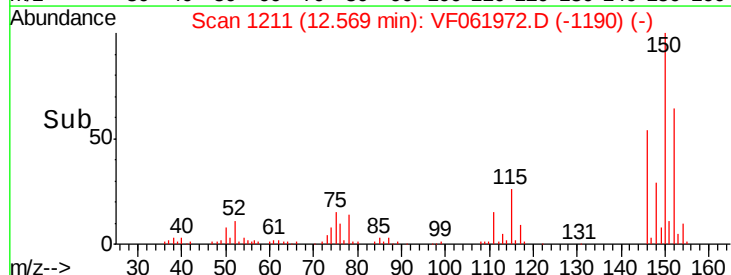
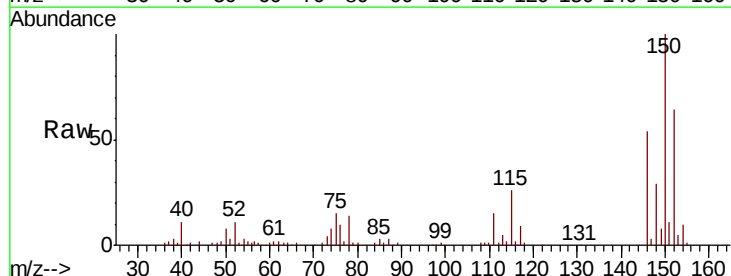
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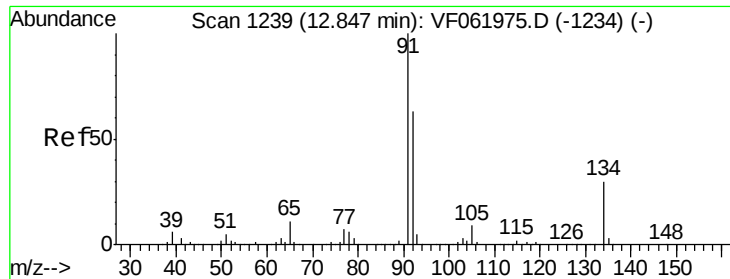
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#88
 1,4-Dichlorobenzene
 Concen: 5.307 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	27.7	19.4	58.1
148	53.9	32.4	97.0





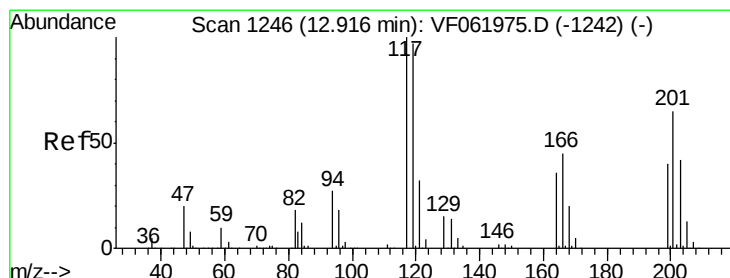
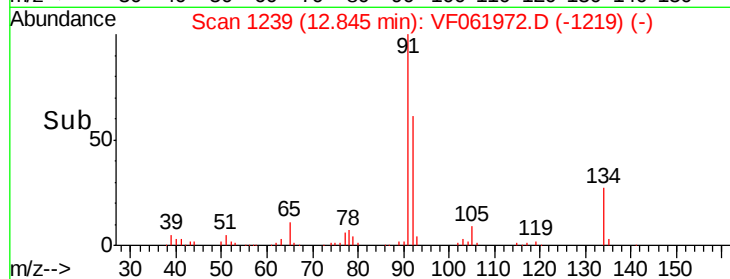
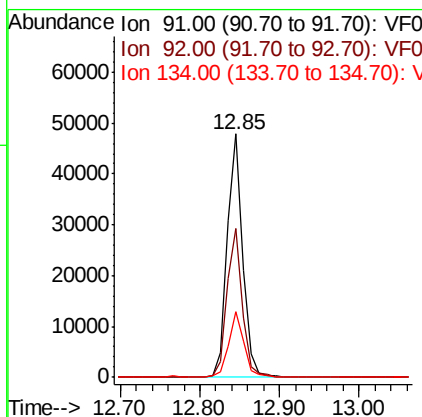
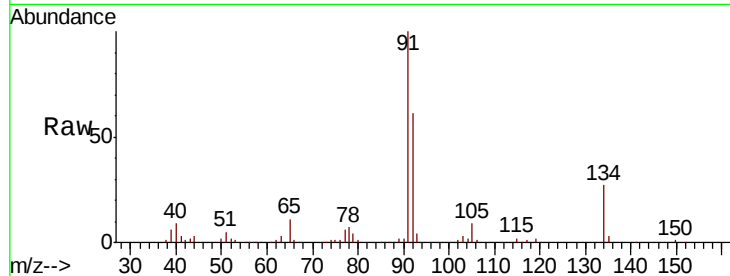
#89
n-Butylbenzene
Concen: 5.067 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.9	31.7	95.1
134	26.9	15.1	45.3

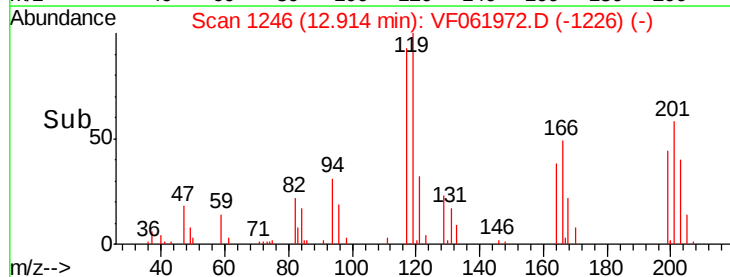
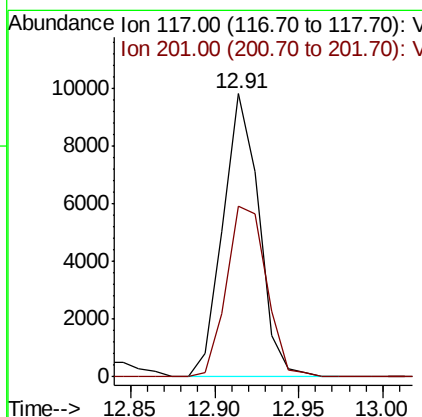
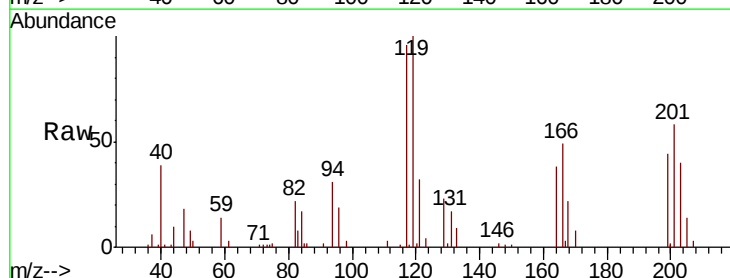
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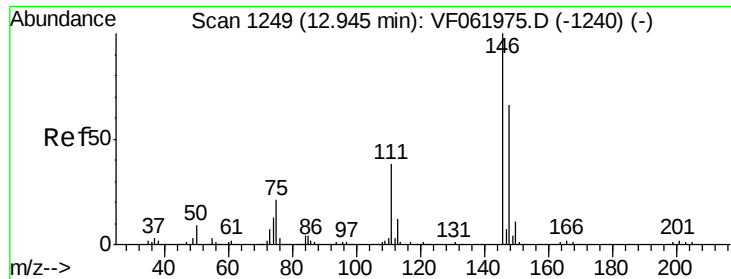
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#90
Hexachloroethane
Concen: 4.593 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
117	100		
201	60.2	32.5	97.5





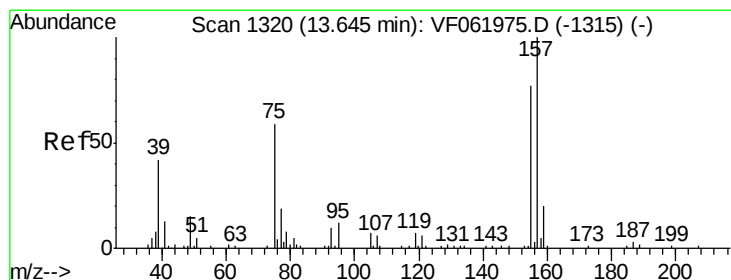
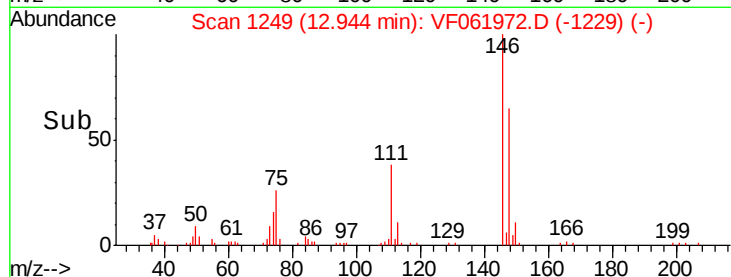
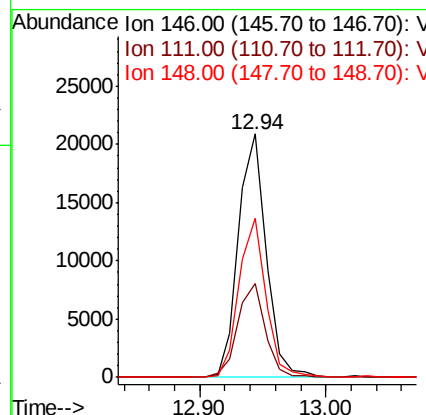
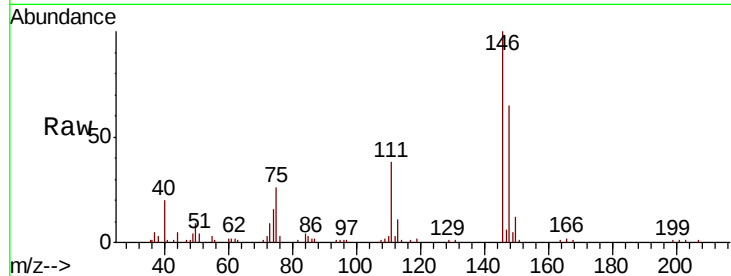
#91
 1,2-Dichlorobenzene
 Concen: 5.142 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.9	56.5
148	65.2	32.9	98.6

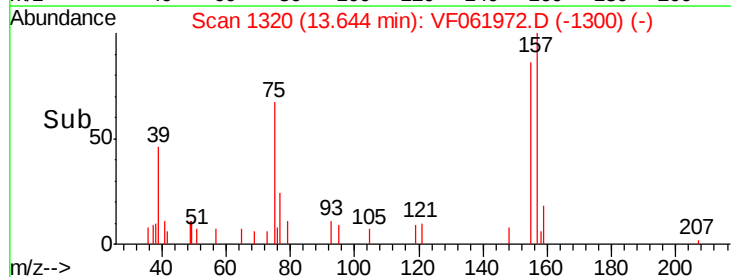
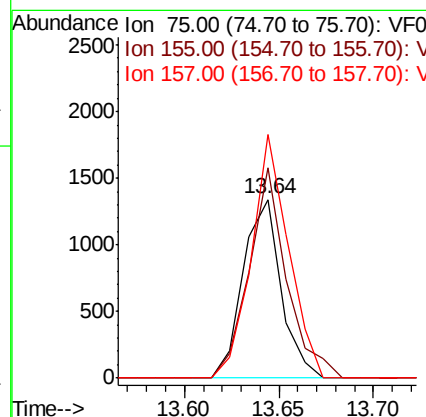
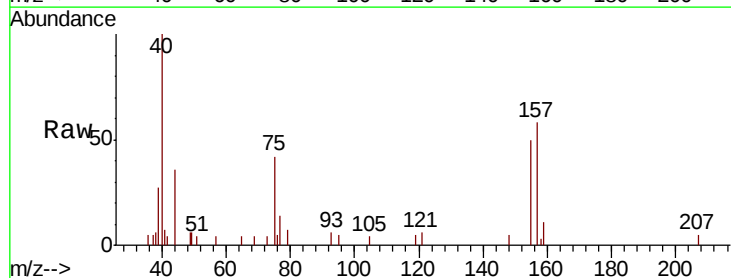
Manual Integrations
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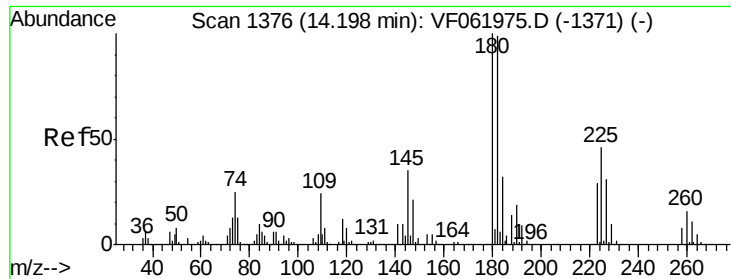
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.786 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
75	100		
155	117.4	65.0	195.1
157	136.1	84.7	254.0





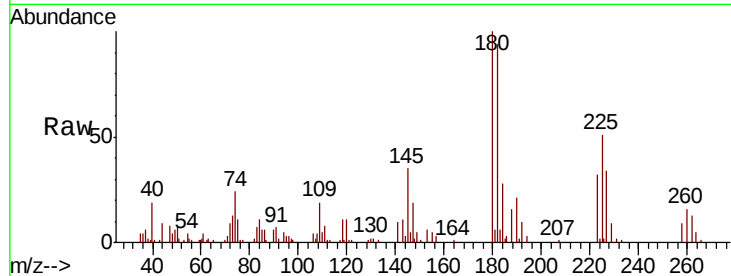
#93
 1,2,4-Trichlorobenzene
 Concen: 5.115 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.8	49.6	149.0
145	35.1	17.5	52.5

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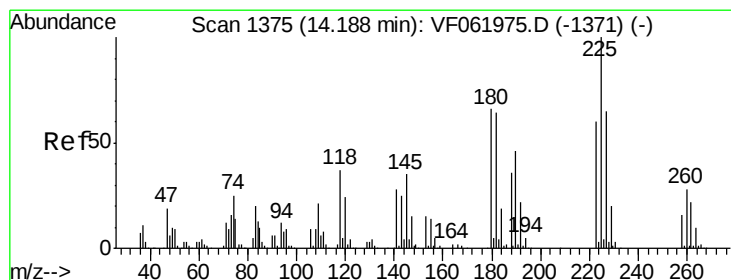
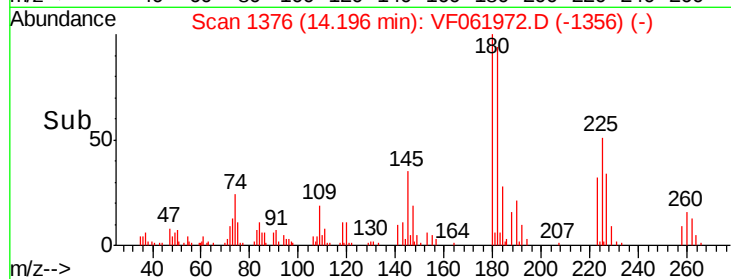
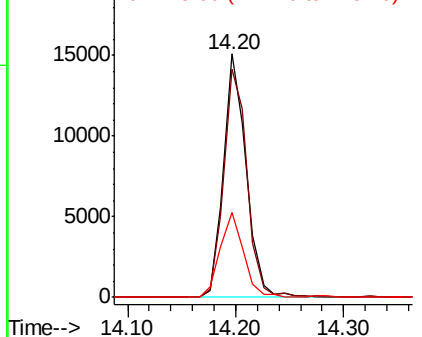


Abundance

Ion 180.00 (179.70 to 180.70): V

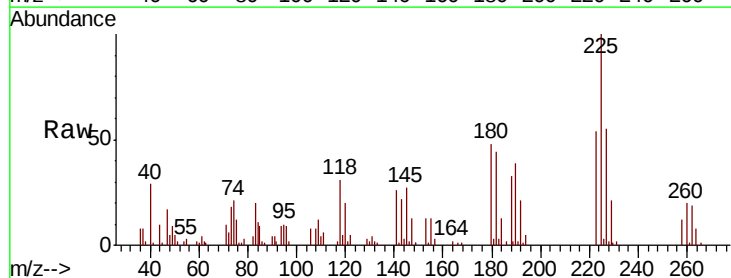
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 5.194 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061972.D
 Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
225	100		
223	53.7	29.9	89.7
227	55.2	32.4	97.2

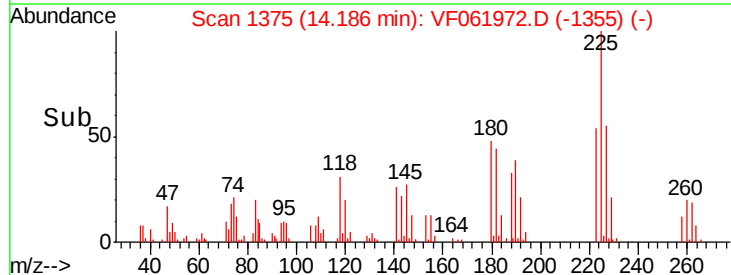
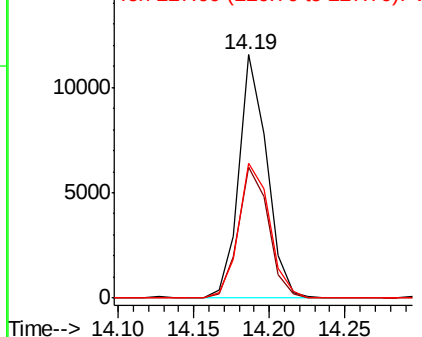


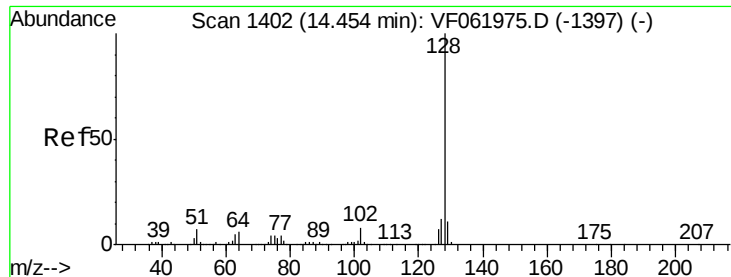
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





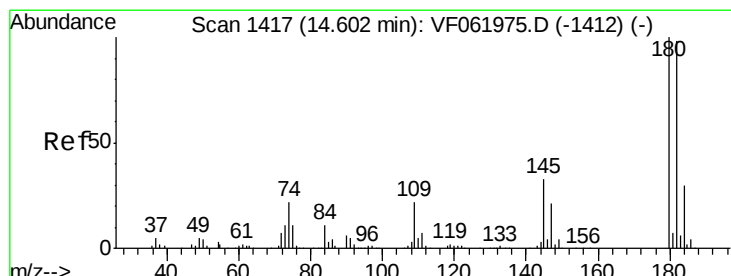
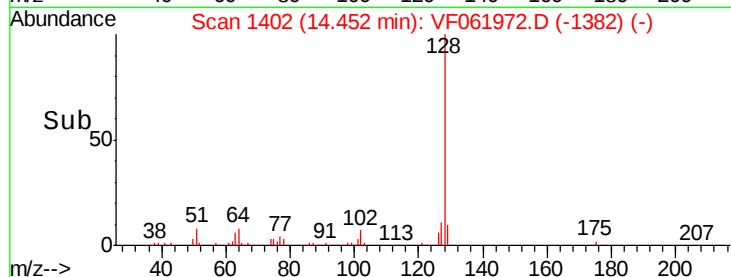
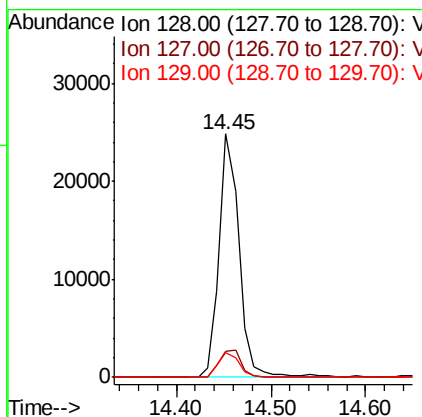
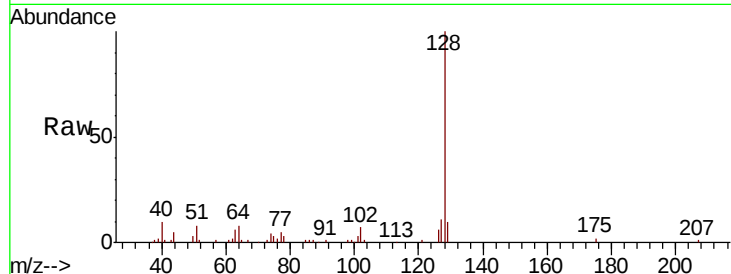
#95
Naphthalene
Concen: 4.726 ug/l
RT: 14.45 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.6	9.3	13.9
129	10.3	9.1	13.7

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 4.632 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061972.D
Acq: 16 Mar 2019 10:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.8	48.9	146.8
145	33.4	16.7	50.1

