

Data File : VU034651.D
Acq On : 19 Sep 2019 15:59
Operator : JC/SP
Sample : VSTD010
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01032

Quant Time: Sep 19 17:18:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Sep 19 17:16:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	498428	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	463418	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	209644	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	50028	20.80	ug/L	0.00
7) Chloroethane-d5	1.67	69	38505	20.82	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	82622	16.79	ug/L	0.00
21) 2-Butanone-d5	4.16	46	73634	27.16	ug/L	0.02
24) Chloroform-d	4.62	84	66934	12.26	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	51678	15.51	ug/L	0.00
32) Benzene-d6	5.32	84	142505	13.99	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	49045	12.93	ug/L	0.00
41) Toluene-d8	7.54	98	131609	13.30	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	21457	11.86	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	46403	22.55	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	67218	11.34	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	40735	10.89	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	48740	15.872	ug/L	100
3) Chloromethane	1.32	50	58022	18.514	ug/L	100
5) Vinyl chloride	1.40	62	53737	17.465	ug/L	98
6) Bromomethane	1.62	94	27015	16.796	ug/L	87
8) Chloroethane	1.69	64	30235	17.150	ug/L	95
9) Trichlorofluoromethane	1.88	101	68055	15.631	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	31932	12.308	ug/L	97
12) 1,1-Dichloroethene	2.27	96	31064	13.113	ug/L	92
13) Acetone	2.31	43	90576	37.170	ug/L	100
14) Carbon disulfide	2.46	76	104031	17.888	ug/L	99
15) Methyl Acetate	2.60	43	58502	14.669	ug/L	96
16) Methylene chloride	2.69	84	37501	11.978	ug/L	87
17) trans-1,2-Dichloroethene	2.97	96	33578	13.244	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	122561	11.676	ug/L	98
19) 1,1-Dichloroethane	3.42	63	76623	13.424	ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	39056	11.895	ug/L	99
23) Bromochloromethane	4.53	128	18388	11.862	ug/L	98
25) Chloroform	4.65	83	78125	13.088	ug/L	97
27) 1,2-Dichloroethane	5.39	62	65911	15.594	ug/L	98
29) Cyclohexane	4.97	56	73900	16.358	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	59613	12.873	ug/L	99
31) Carbon tetrachloride	5.11	117	51952	13.289	ug/L	98
33) Benzene	5.37	78	156899	13.347	ug/L	100
34) Trichloroethene	6.17	95	37380	12.766	ug/L	97
35) Methylcyclohexane	6.39	83	65882	14.841	ug/L	99
37) 1,2-Dichloropropane	6.41	63	46114	12.925	ug/L	94
38) Bromodichloromethane	6.74	83	56094	12.027	ug/L	94
39) cis-1,3-Dichloropropene	7.25	75	67013	12.502	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	172262	27.757	ug/L	100
42) Toluene	7.61	91	167017	13.177	ug/L	98

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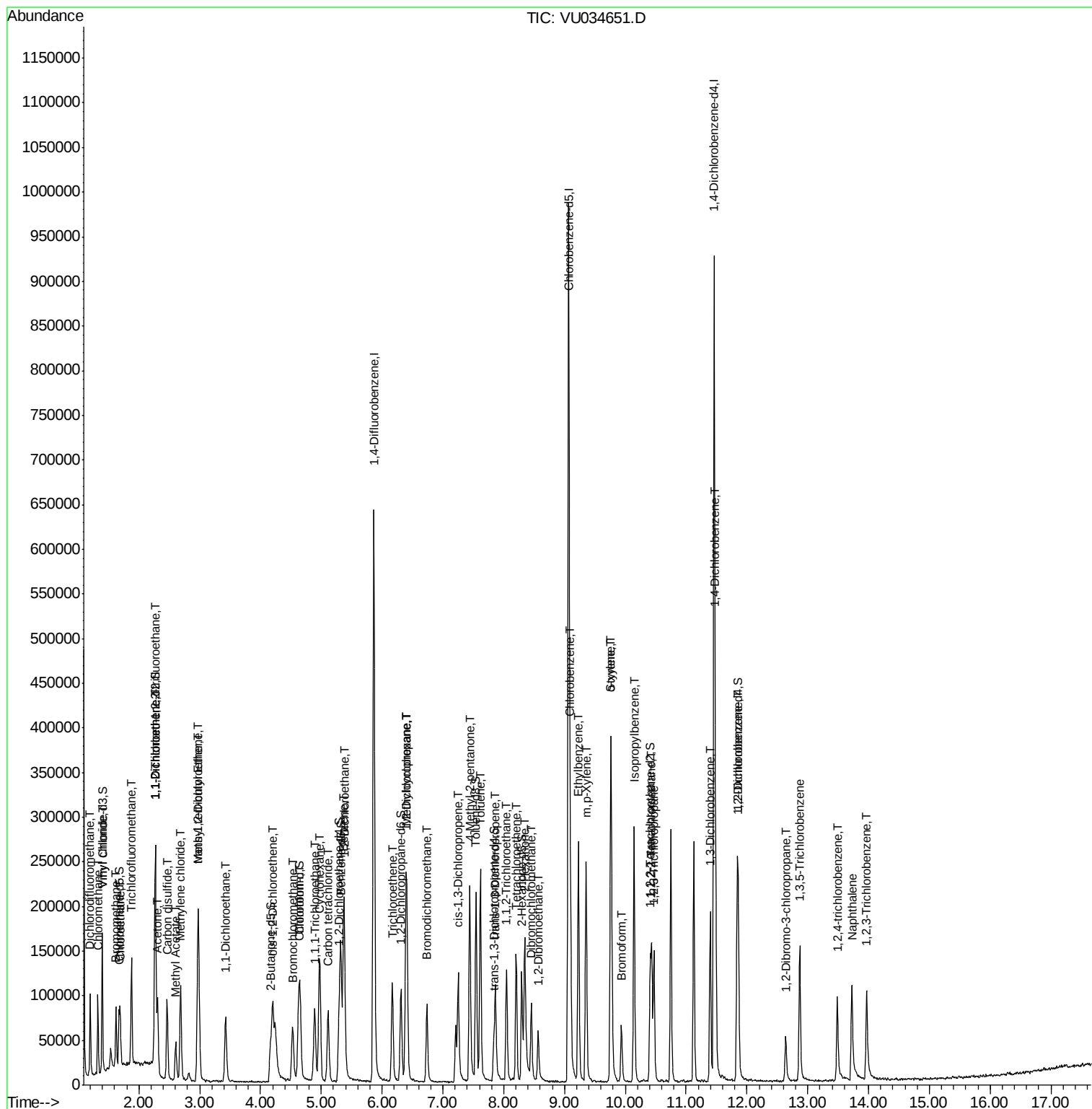
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.86	75	59424	12.090	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	36988	11.360	ug/L	96
46) Tetrachloroethene	8.21	164	28424	14.624	ug/L	92
48) 2-Hexanone	8.34	43	130713	28.035	ug/L	98
49) Dibromochloromethane	8.45	129	39664	10.756	ug/L	98
50) 1,2-Dibromoethane	8.57	107	38588	11.339	ug/L	95
51) Chlorobenzene	9.10	112	99845	12.058	ug/L	97
52) Ethylbenzene	9.23	91	182997	12.479	ug/L	96
53) m,p-Xylene	9.35	106	65288	12.383	ug/L	93
54) o-xylene	9.76	106	65735	12.290	ug/L	100
55) Styrene	9.77	104	106942	11.616	ug/L	98
56) Isopropylbenzene	10.14	105	174523	12.131	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	69873	10.792	ug/L	98
59) 1,2,3-Trichloropropane	10.47	75	57050	11.707	ug/L	97
61) Bromoform	9.94	173	27300	10.575	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	69438	11.454	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	69559	11.363	ug/L	96
65) 1,2-Dichlorobenzene	11.86	146	71675	11.721	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.64	75	14761	10.655	ug/L	94
67) 1,3,5-Trichlorobenzene	12.87	180	43808	11.087	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	30298	8.976	ug/L	96
69) Naphthalene	13.73	128	93115	7.467	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	33167	9.598	ug/L	95

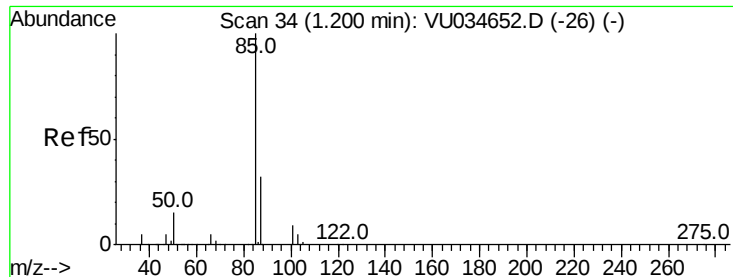
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 15.872 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

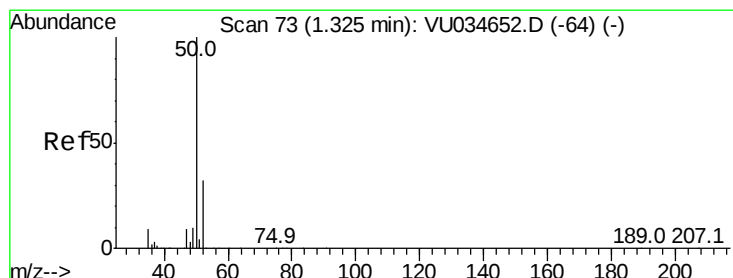
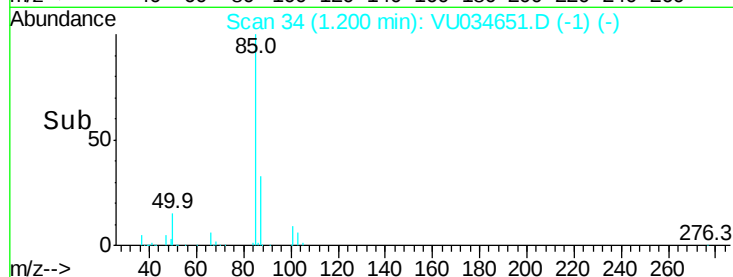
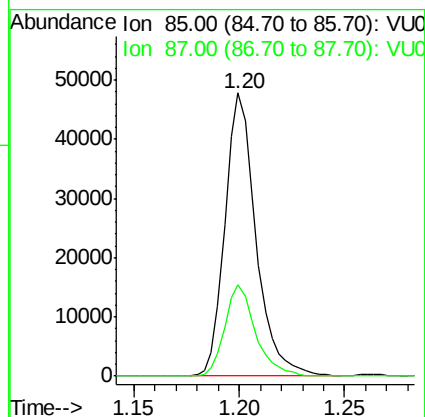
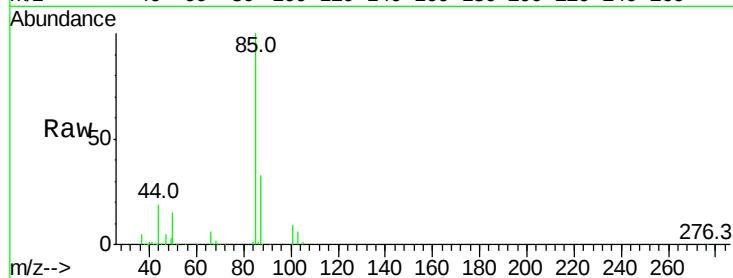
VSTD01032

Tgt Ion: 85 Resp: 48740

Ion Ratio Lower Upper

85 100

87 32.1 25.5 38.3



#3

Chloromethane

Concen: 18.514 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034651.D

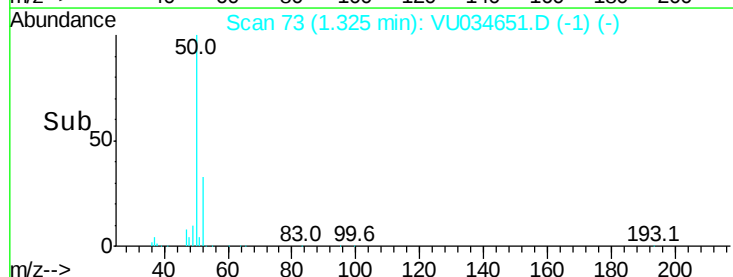
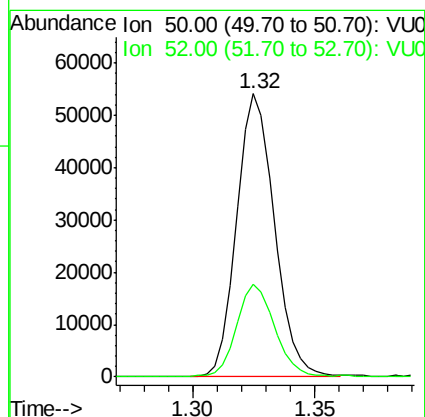
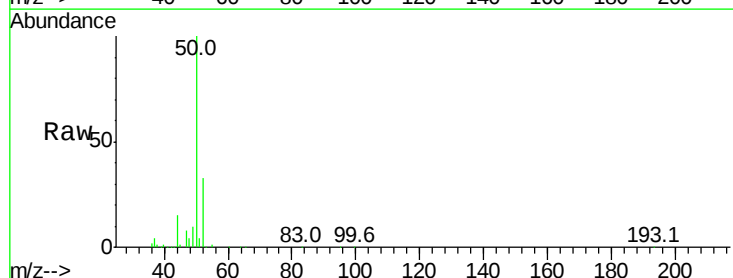
Acq: 19 Sep 2019 15:59

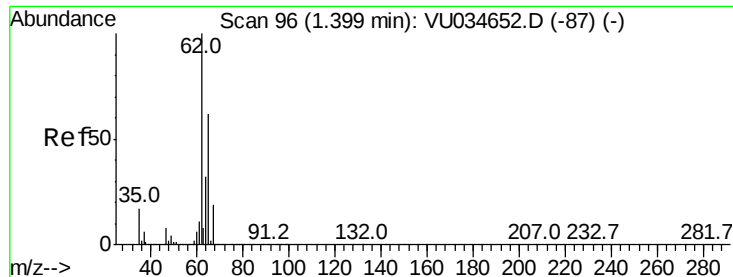
Tgt Ion: 50 Resp: 58022

Ion Ratio Lower Upper

50 100

52 32.6 22.7 42.1





#5

Vinyl chloride

Concen: 17.465 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

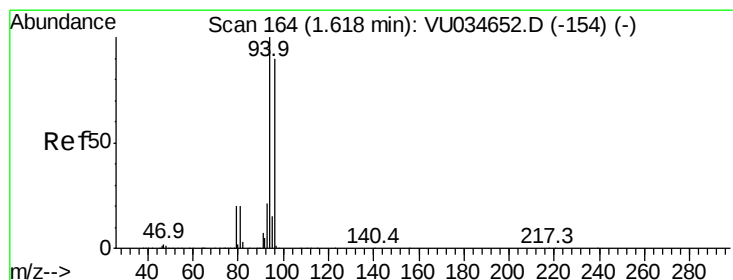
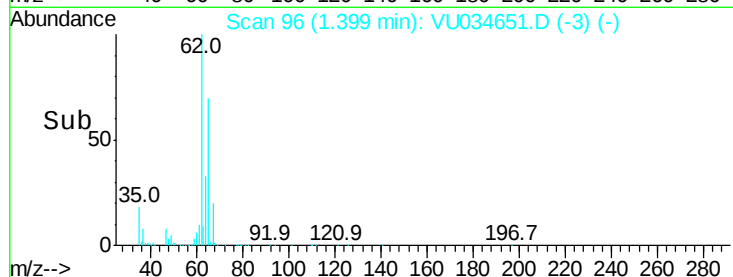
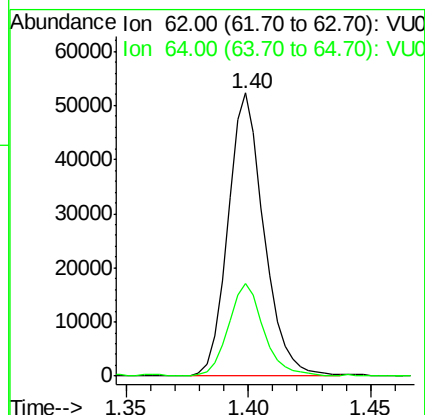
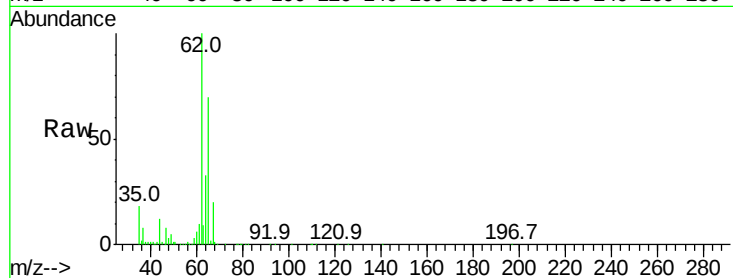
VSTD01032

Tgt Ion: 62 Resp: 53737

Ion Ratio Lower Upper

62 100

64 32.9 22.2 41.2



#6

Bromomethane

Concen: 16.796 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU034651.D

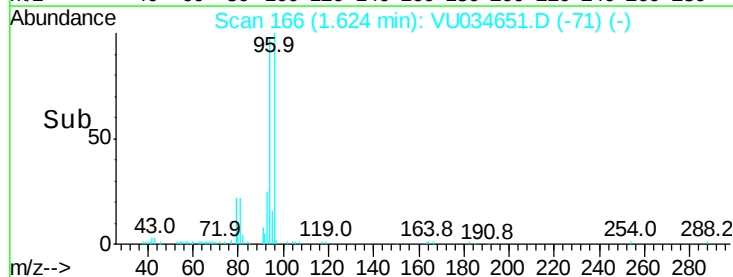
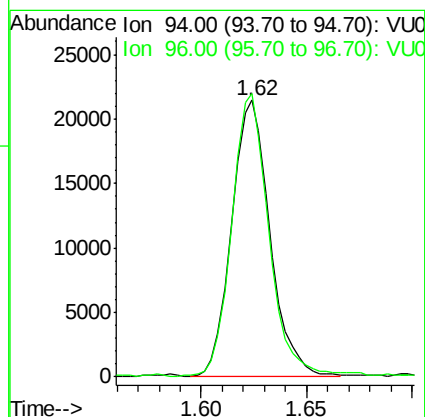
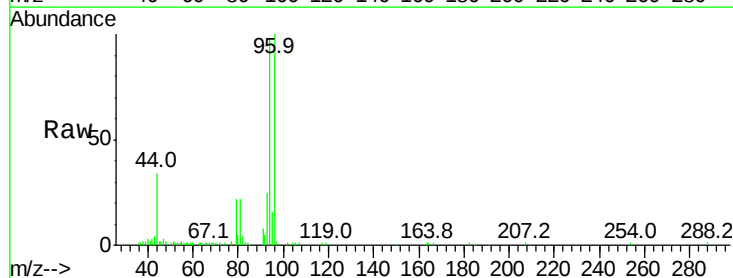
Acq: 19 Sep 2019 15:59

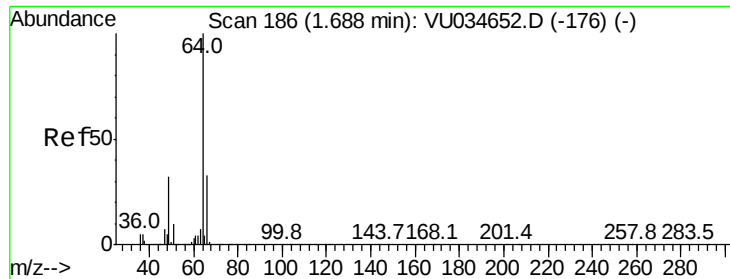
Tgt Ion: 94 Resp: 27015

Ion Ratio Lower Upper

94 100

96 102.4 62.8 116.6





#8

Chloroethane

Concen: 17.150 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

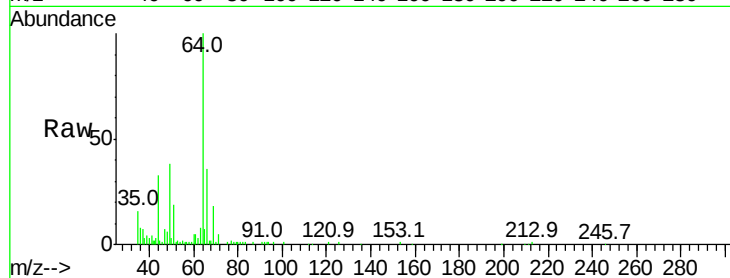
VSTD01032

Tgt Ion: 64 Resp: 30235

Ion Ratio Lower Upper

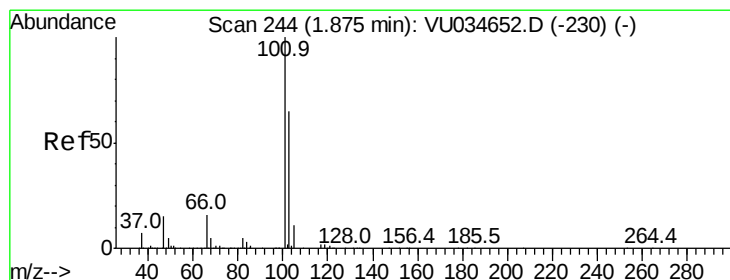
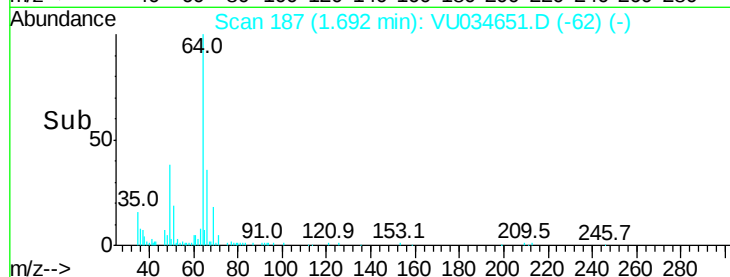
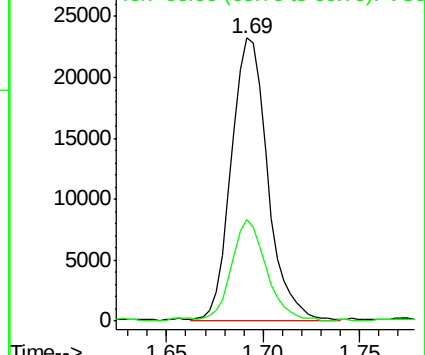
64 100

66 35.9 23.1 42.9



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



#9

Trichlorofluoromethane

Concen: 15.631 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU034651.D

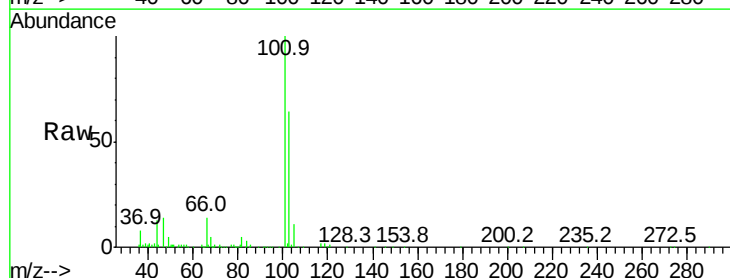
Acq: 19 Sep 2019 15:59

Tgt Ion: 101 Resp: 68055

Ion Ratio Lower Upper

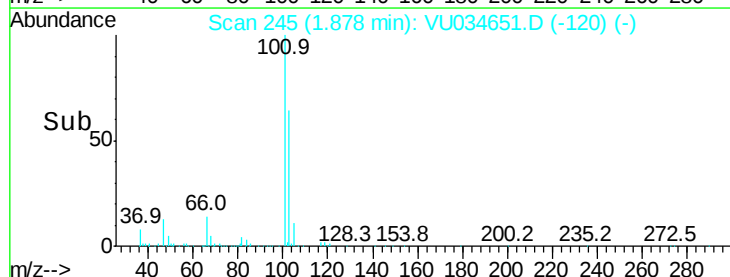
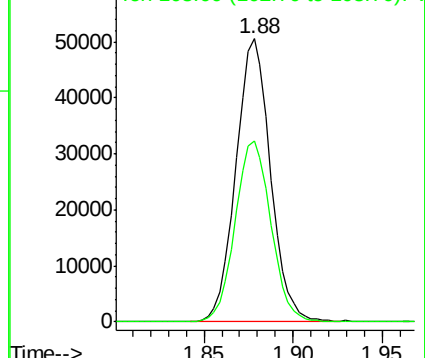
101 100

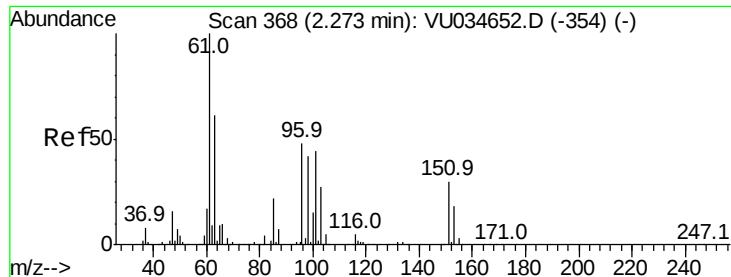
103 66.1 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 12.308 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

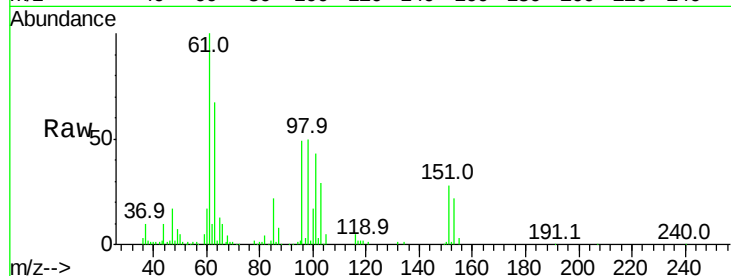
Tgt Ion:101 Resp: 31932

Ion Ratio Lower Upper

101 100

85 51.8 39.0 58.4

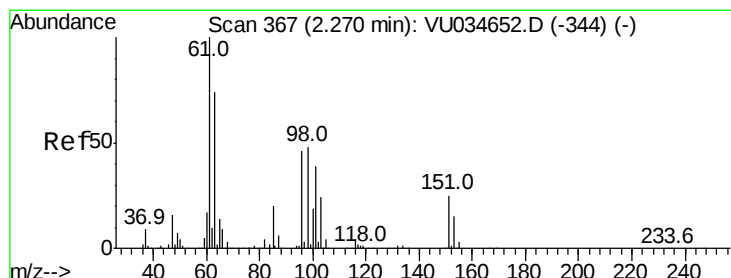
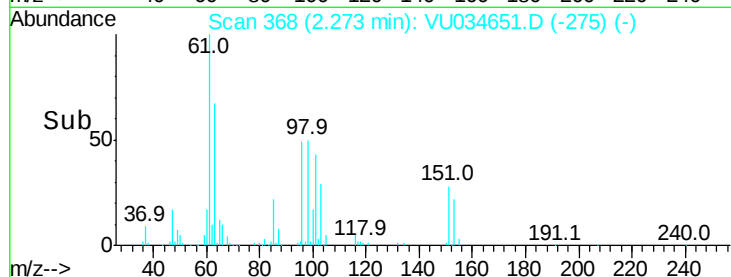
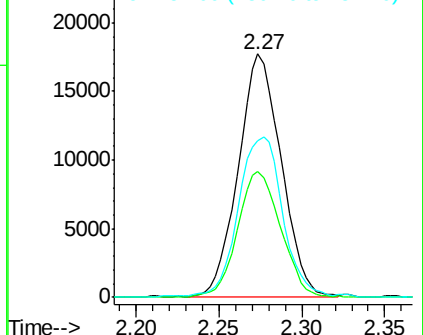
151 68.1 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 13.113 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

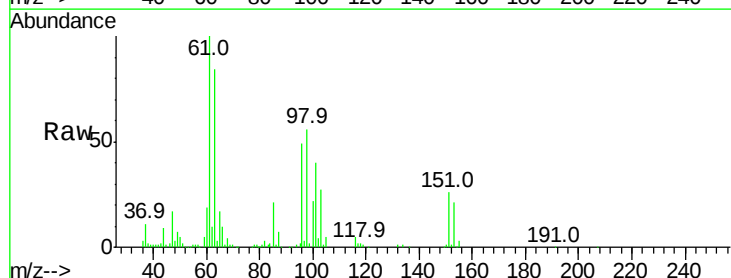
Tgt Ion: 96 Resp: 31064

Ion Ratio Lower Upper

96 100

61 202.4 153.2 284.4

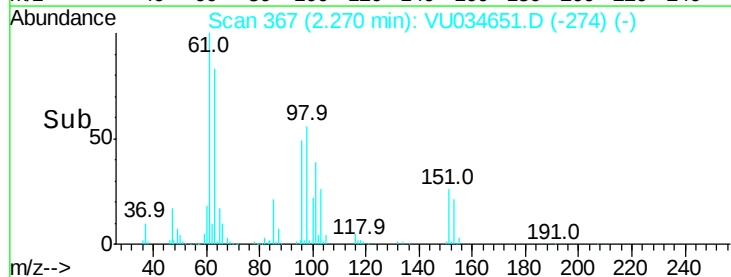
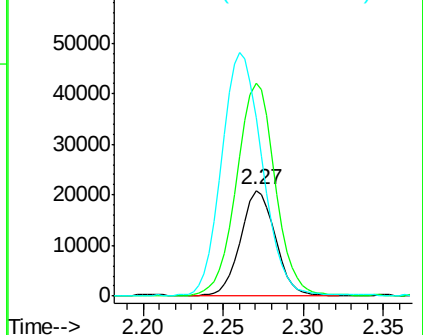
63 169.5 113.8 211.3

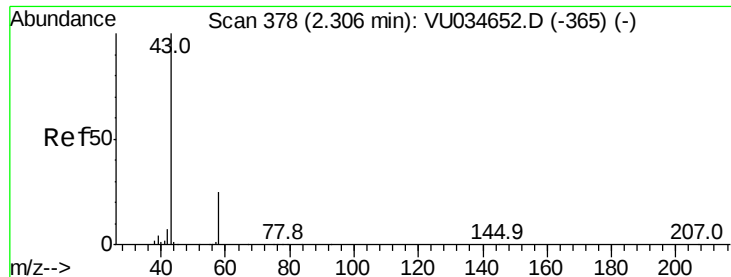


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 37.170 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

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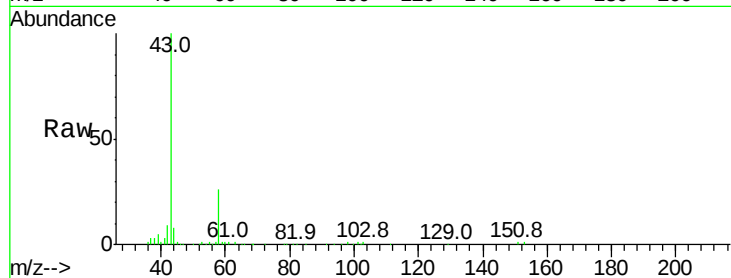
VSTD01032

Tgt Ion: 43 Resp: 90576

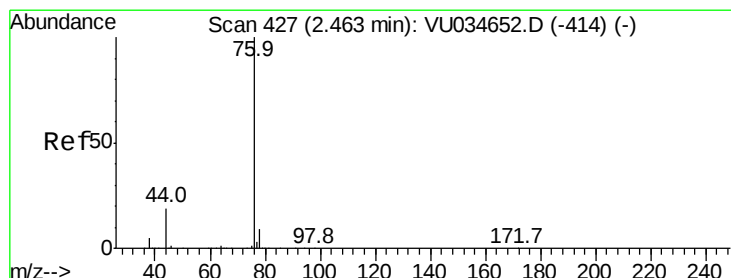
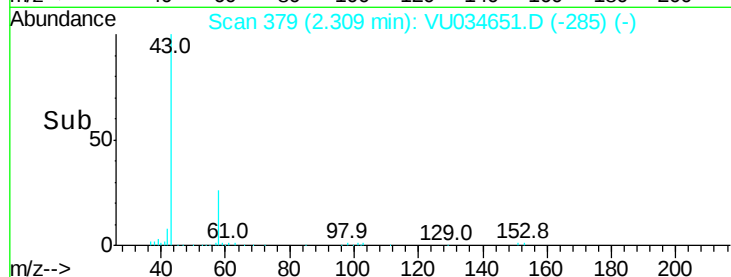
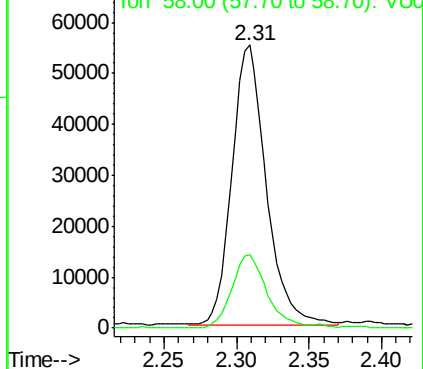
Ion Ratio Lower Upper

43 100

58 26.7 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034651.D (-379) (-)



#14

Carbon disulfide

Concen: 17.888 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034651.D

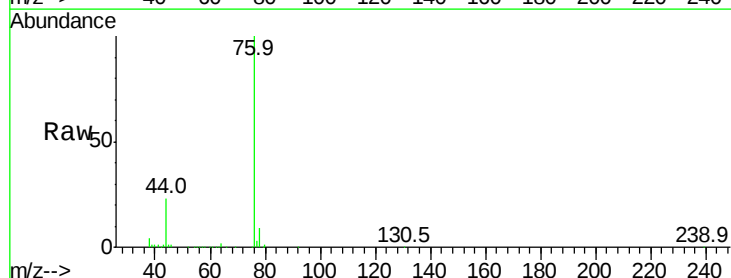
Acq: 19 Sep 2019 15:59

Tgt Ion: 76 Resp: 104031

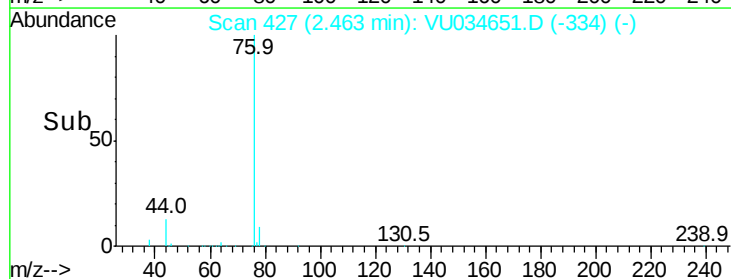
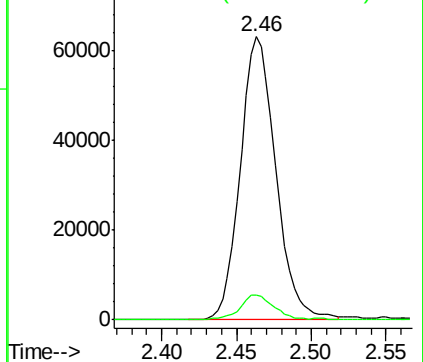
Ion Ratio Lower Upper

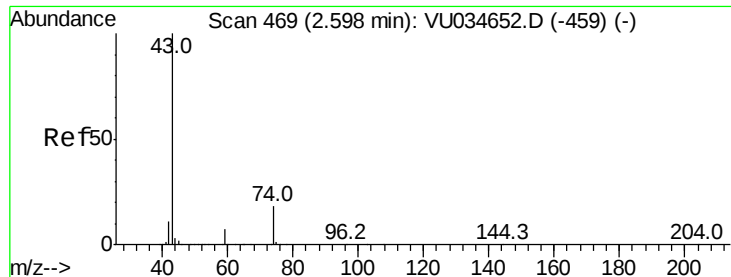
76 100

78 9.0 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VU034651.D (-427) (-)





#15

Methyl Acetate

Concen: 14.669 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU034651.D

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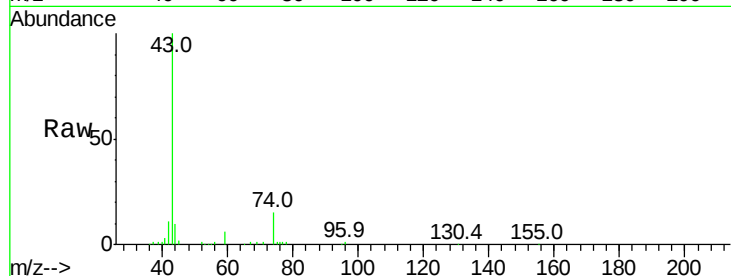
VSTD01032

Tgt Ion: 43 Resp: 58502

Ion Ratio Lower Upper

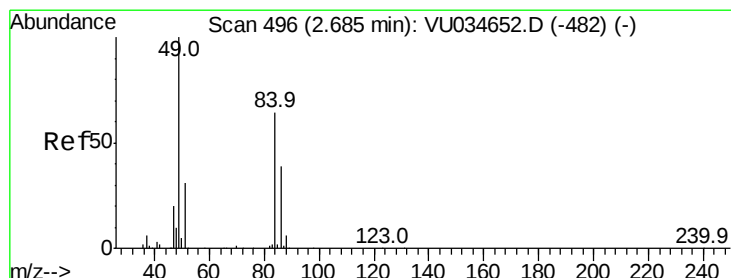
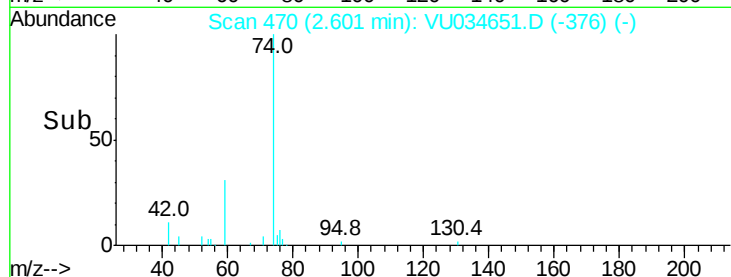
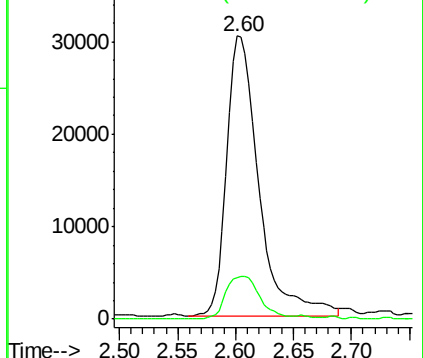
43 100

74 16.0 14.4 21.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 11.978 ug/L

RT: 2.69 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

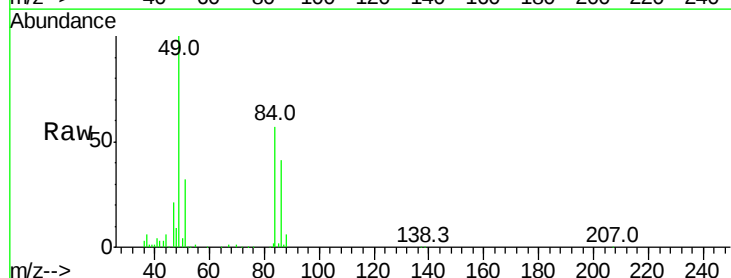
Tgt Ion: 84 Resp: 37501

Ion Ratio Lower Upper

84 100

86 70.9 43.0 80.0

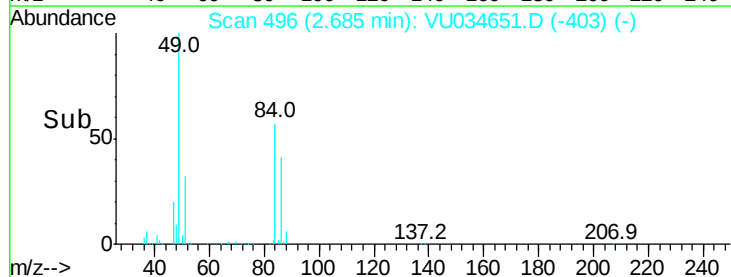
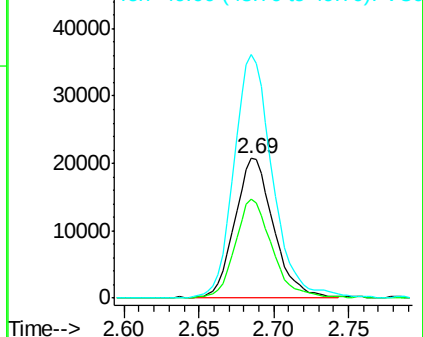
49 174.1 109.7 203.7

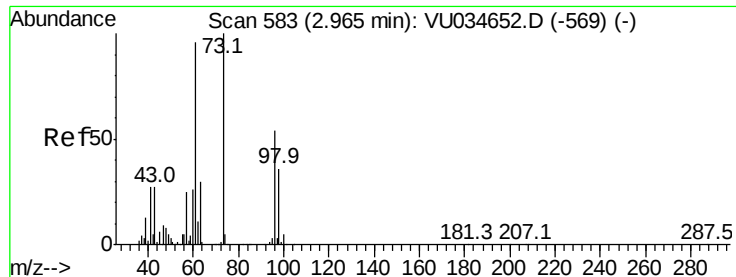


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 13.244 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

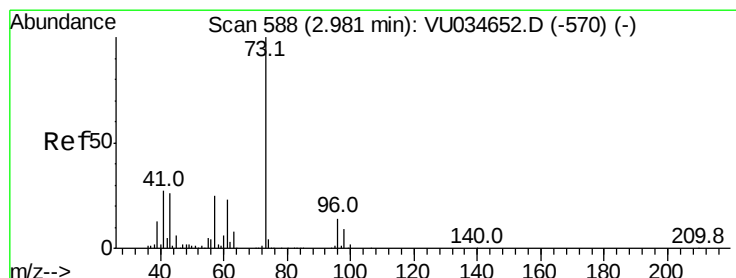
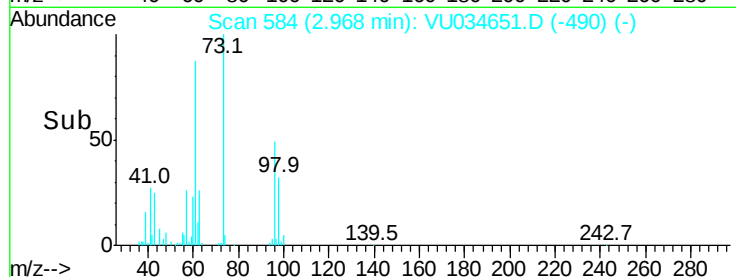
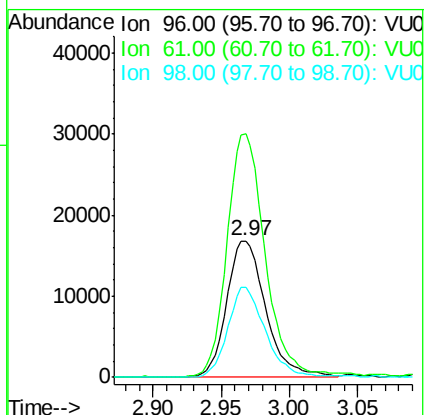
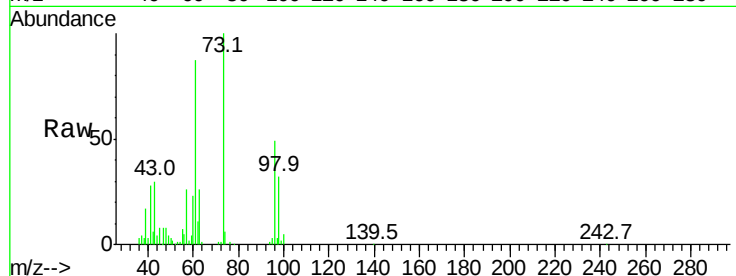
Tgt Ion: 96 Resp: 33578

Ion Ratio Lower Upper

96 100

61 178.2 124.0 230.4

98 65.7 46.1 85.7



#18

Methyl tert-butyl Ether

Concen: 11.676 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

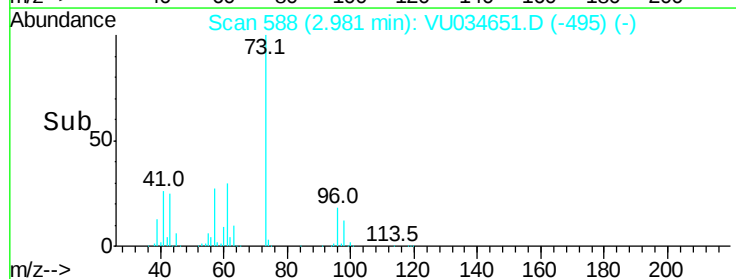
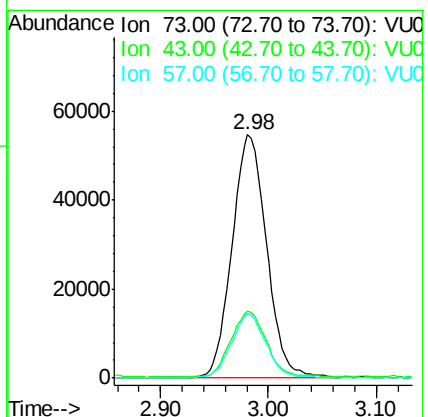
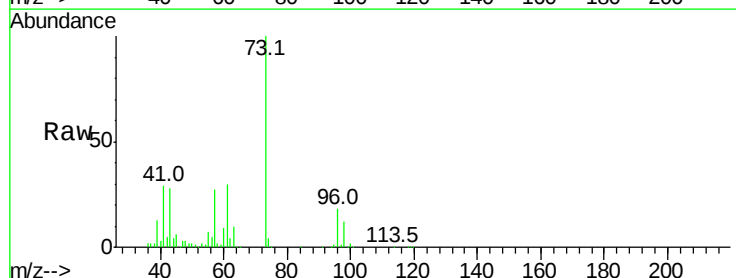
Tgt Ion: 73 Resp: 122561

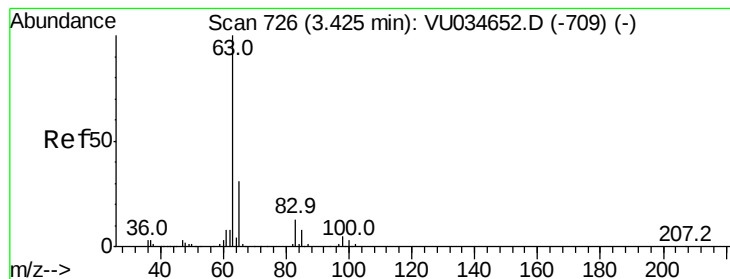
Ion Ratio Lower Upper

73 100

43 26.6 20.9 31.3

57 26.1 19.5 29.3





#19

1,1-Dichloroethane

Concen: 13.424 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

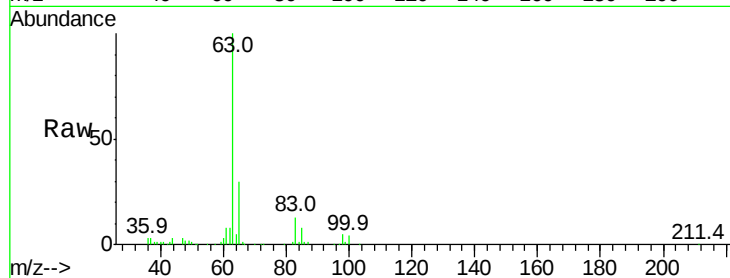
Tgt Ion: 63 Resp: 76623

Ion Ratio Lower Upper

63 100

65 29.8 22.0 40.8

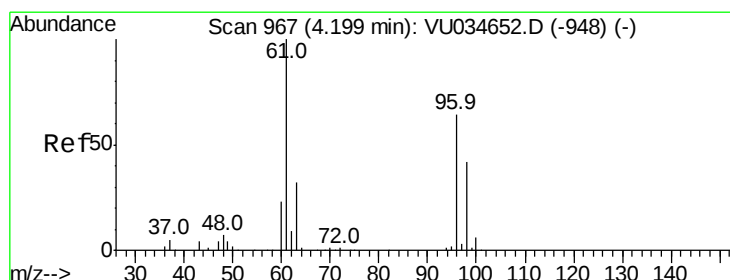
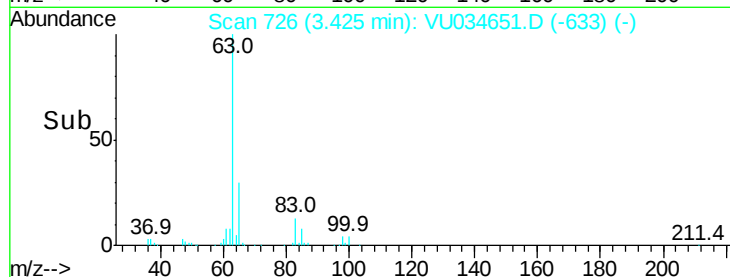
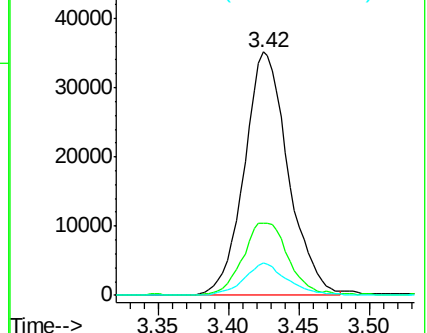
83 13.2 8.9 16.5



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 11.895 ug/L

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

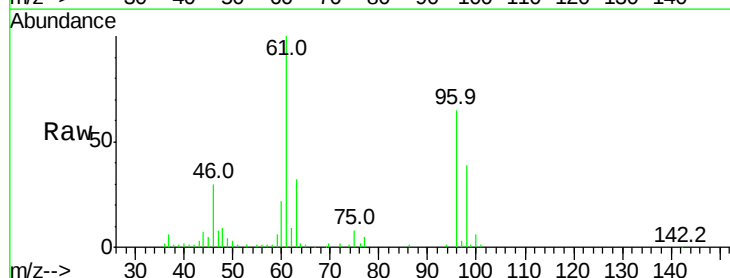
Tgt Ion: 96 Resp: 39056

Ion Ratio Lower Upper

96 100

61 154.8 108.8 202.2

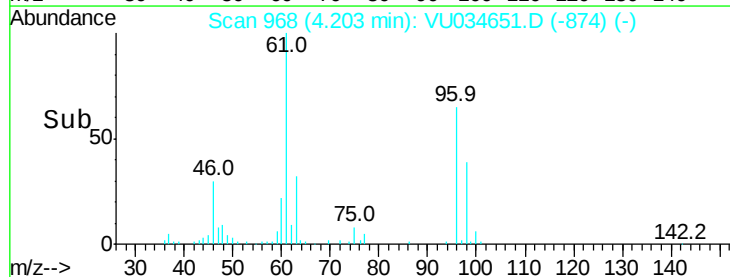
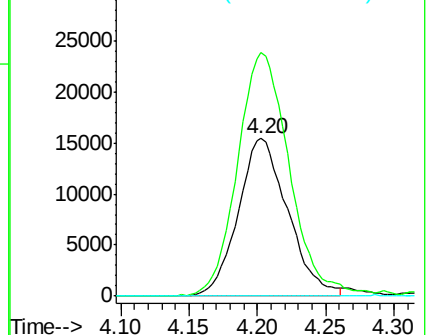
68 0.0 0.0 0.0

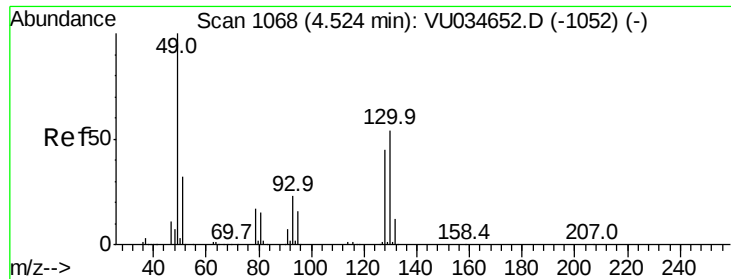


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0

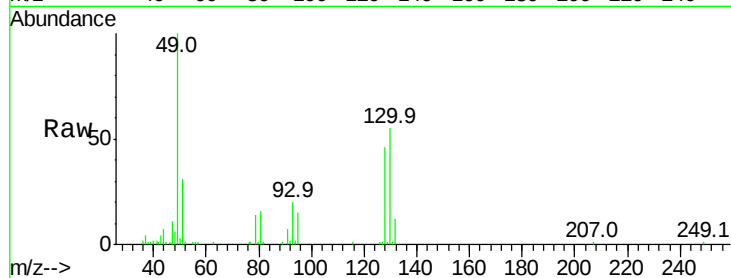




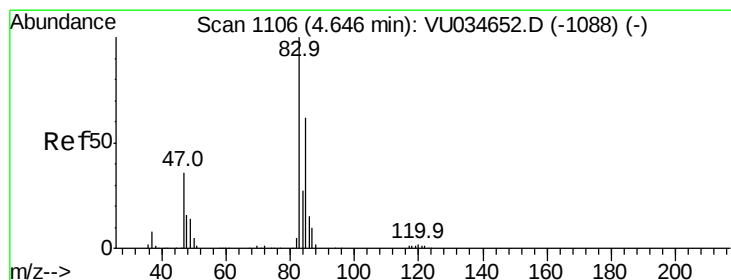
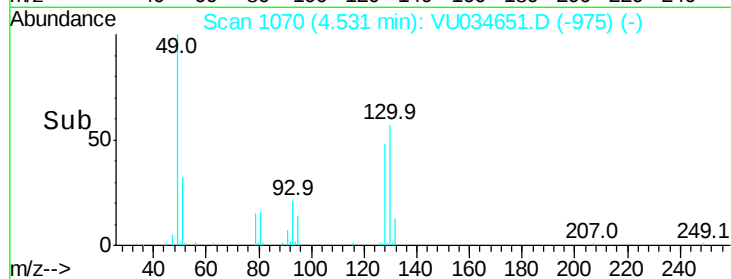
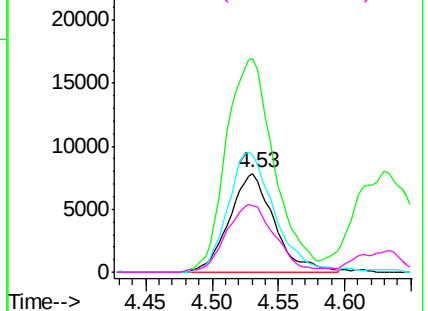
#23
Bromochloromethane
Concen: 11.862 ug/L
RT: 4.53 min Scan# 1070
Delta R.T. 0.01 min
Lab File: VU034651.D
Acq: 19 Sep 2019 15:59

Instrument :
MSVOA_U
ClientSampleId :
VSTD01032

Tgt Ion:128 Resp: 18388
Ion Ratio Lower Upper
128 100
49 216.0 154.3 286.7
130 118.7 83.0 154.2
51 67.9 56.4 84.6

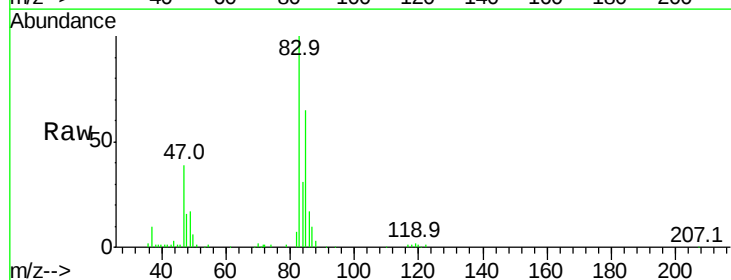


Abundance Ion 128.00 (127.70 to 128.70): VU034651.D (-1075) (-)
Ion 49.00 (48.70 to 49.70): VU034651.D (-1075) (-)
Ion 130.00 (129.70 to 130.70): VU034651.D (-1075) (-)
Ion 51.00 (50.70 to 51.70): VU034651.D (-1075) (-)

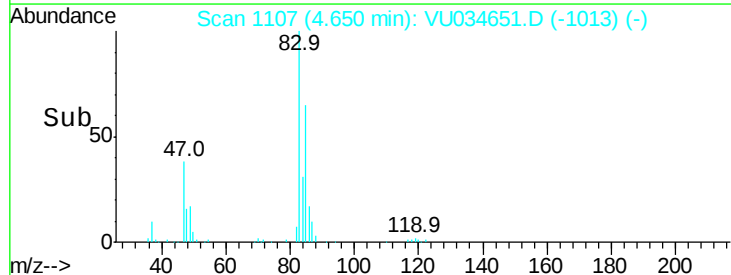
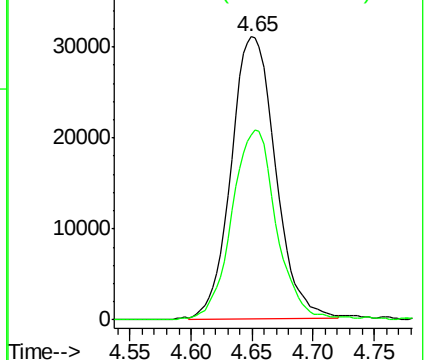


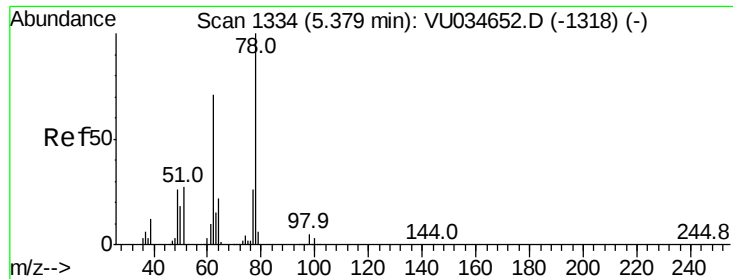
#25
Chloroform
Concen: 13.088 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034651.D
Acq: 19 Sep 2019 15:59

Tgt Ion: 83 Resp: 78125
Ion Ratio Lower Upper
83 100
85 65.4 44.0 81.6



Abundance Ion 83.00 (82.70 to 83.70): VU034651.D (-1013) (-)
Ion 85.00 (84.70 to 85.70): VU034651.D (-1013) (-)

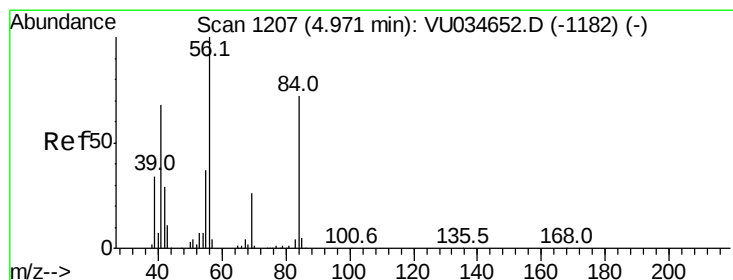
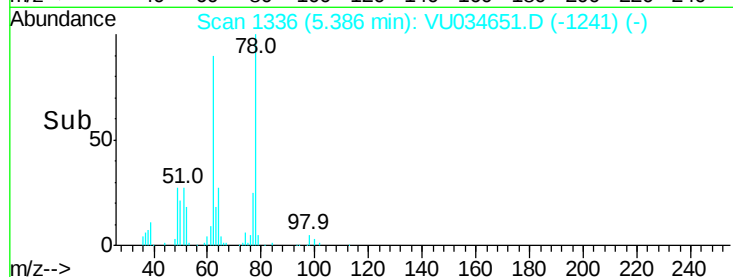
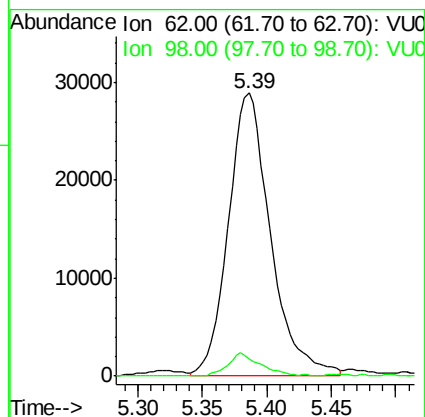
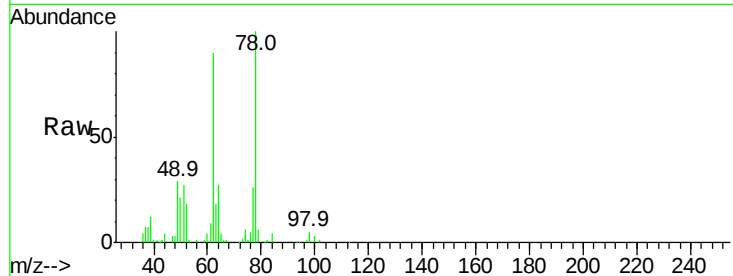




#27
 1,2-Dichloroethane
 Concen: 15.594 ug/L
 RT: 5.39 min Scan# 1336
 Delta R.T. 0.01 min
 Lab File: VU034651.D
 Acq: 19 Sep 2019 15:59

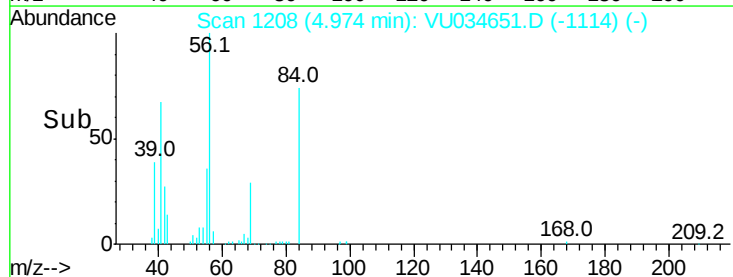
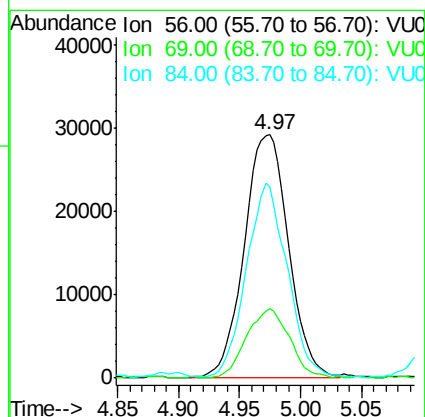
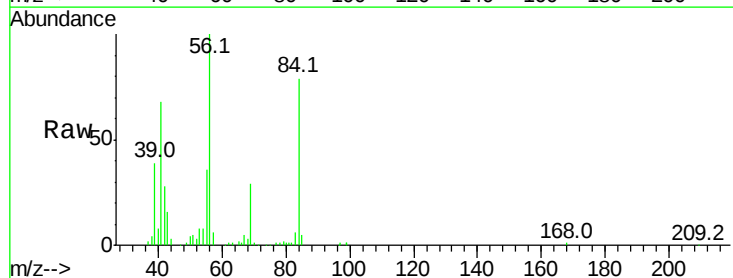
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01032

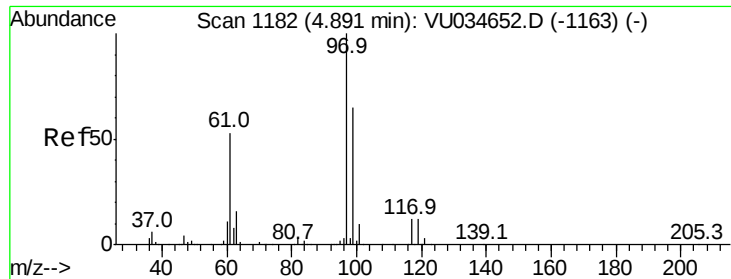
Tgt Ion: 62 Resp: 65911
 Ion Ratio Lower Upper
 62 100
 98 6.0 5.3 7.9



#29
 Cyclohexane
 Concen: 16.358 ug/L
 RT: 4.97 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VU034651.D
 Acq: 19 Sep 2019 15:59

Tgt Ion: 56 Resp: 73900
 Ion Ratio Lower Upper
 56 100
 69 27.5 21.7 32.5
 84 71.6 58.8 88.2

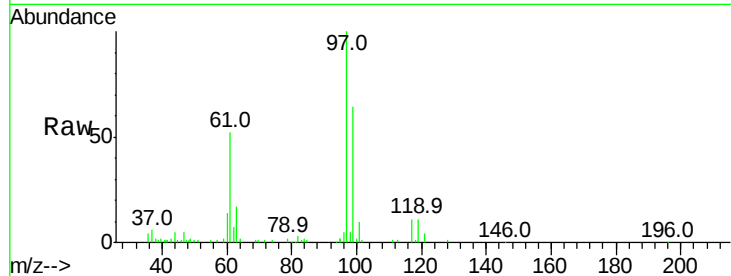




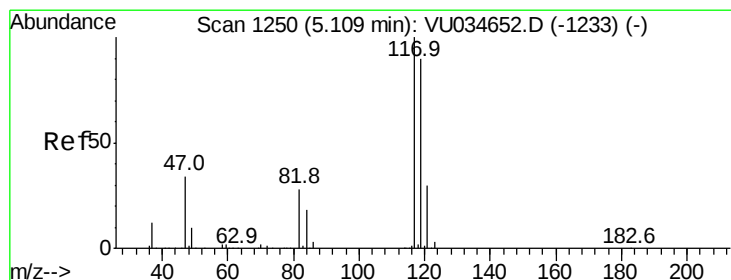
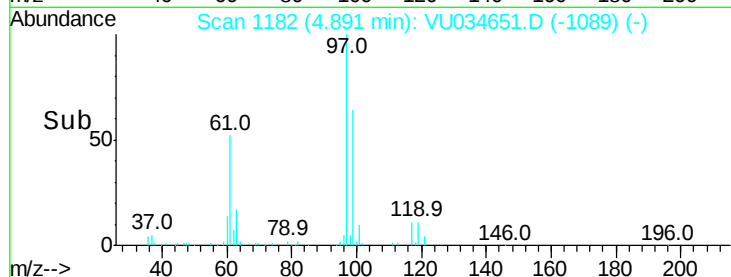
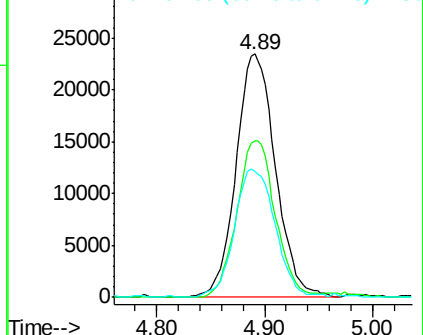
#30
 1,1,1-Trichloroethane
 Concen: 12.873 ug/L
 RT: 4.89 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VU034651.D
 Acq: 19 Sep 2019 15:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01032

Tgt Ion: 97 Resp: 59613
 Ion Ratio Lower Upper
 97 100
 99 63.0 51.8 77.8
 61 54.2 43.4 65.0

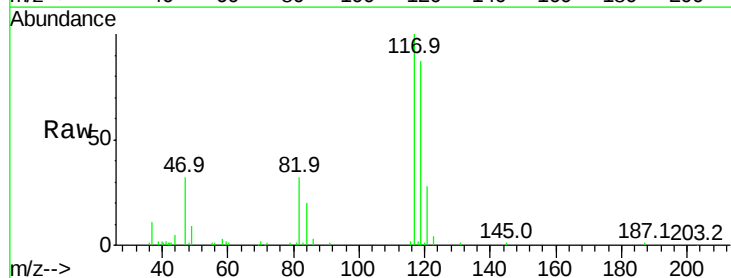


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

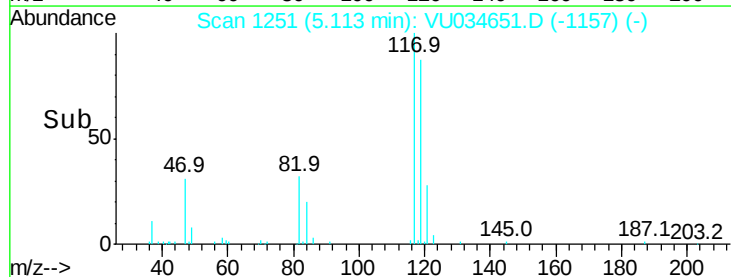
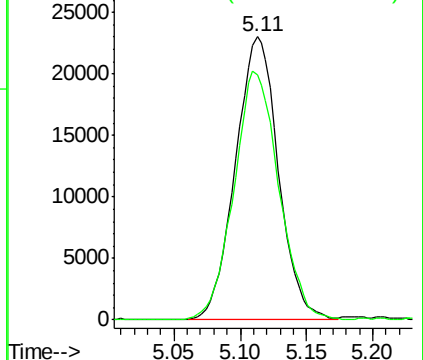


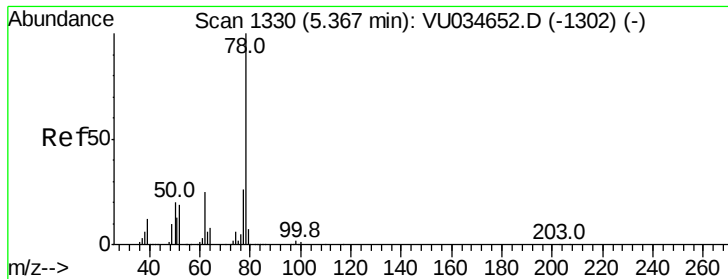
#31
 Carbon tetrachloride
 Concen: 13.289 ug/L
 RT: 5.11 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU034651.D
 Acq: 19 Sep 2019 15:59

Tgt Ion: 117 Resp: 51952
 Ion Ratio Lower Upper
 117 100
 119 91.7 74.8 112.2



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#33

Benzene

Concen: 13.347 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

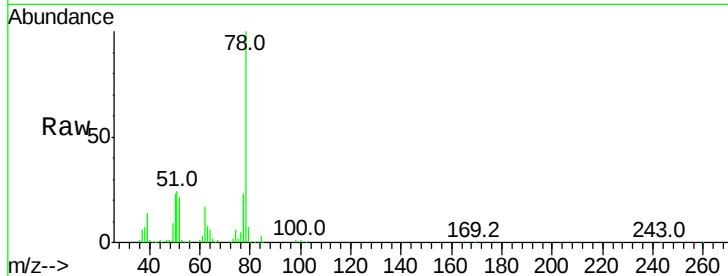
Instrument :

MSVOA_U

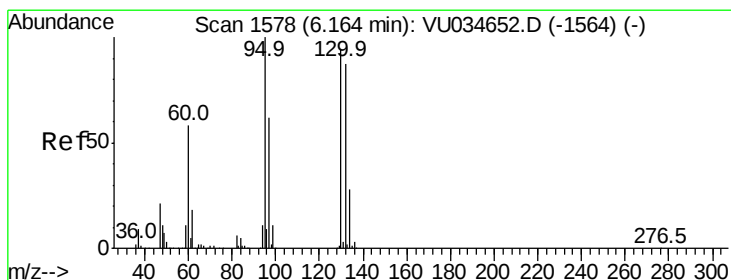
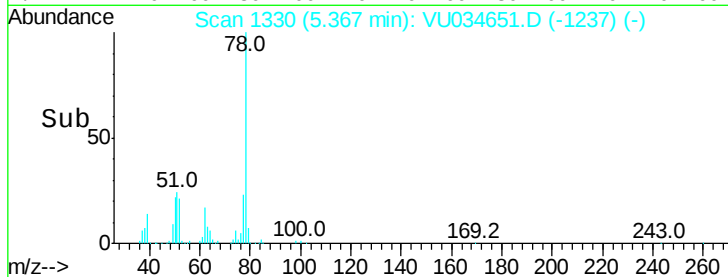
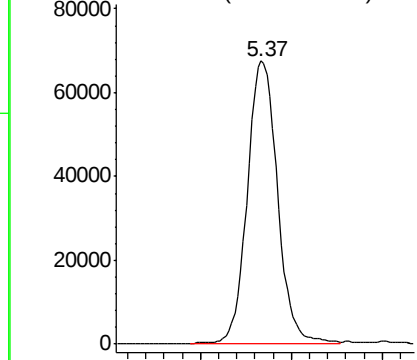
ClientSampleId :

VSTD01032

Tgt Ion: 78 Resp: 156899



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 12.766 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Tgt Ion: 95 Resp: 37380

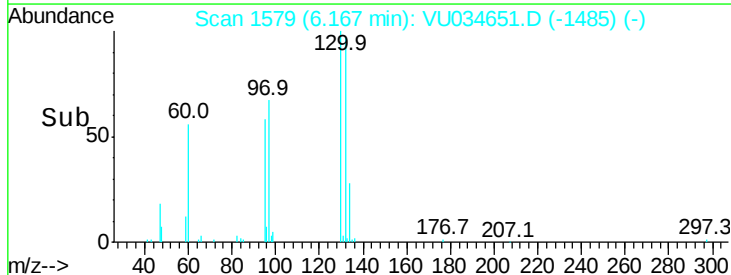
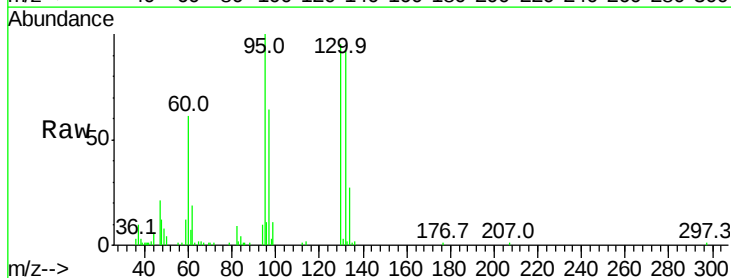
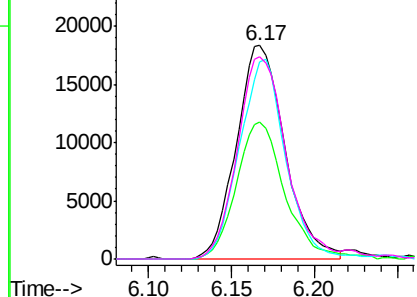
Ion	Ratio	Lower	Upper
95	100		
97	63.8	43.7	81.1
132	92.2	61.0	113.2
130	94.6	65.7	121.9

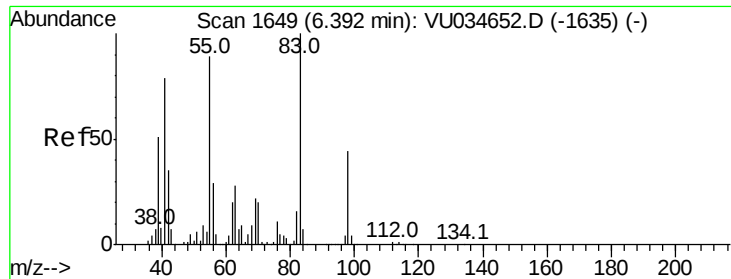
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

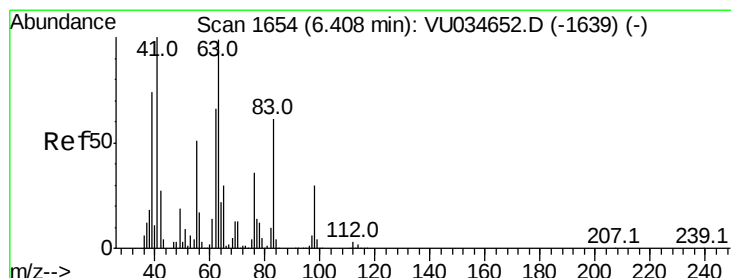
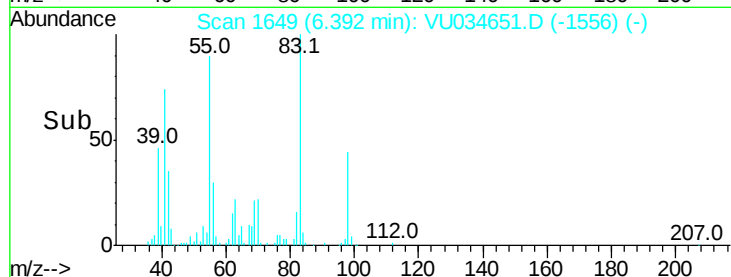
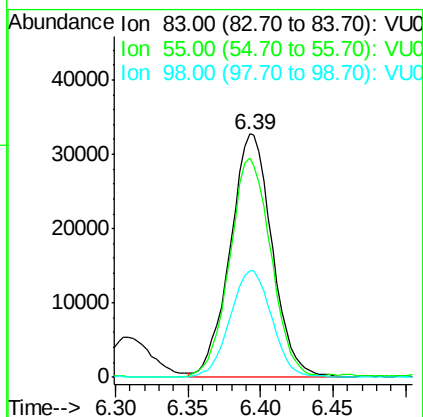
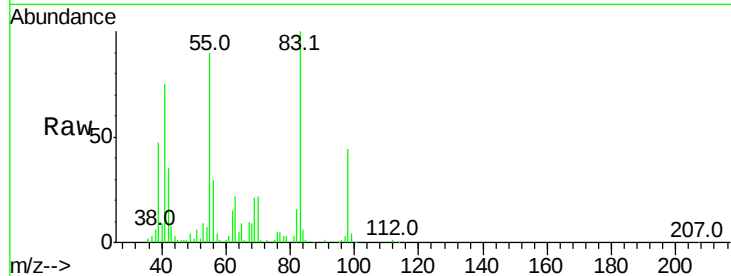




#35
Methylcyclohexane
Concen: 14.841 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU034651.D
Acq: 19 Sep 2019 15:59

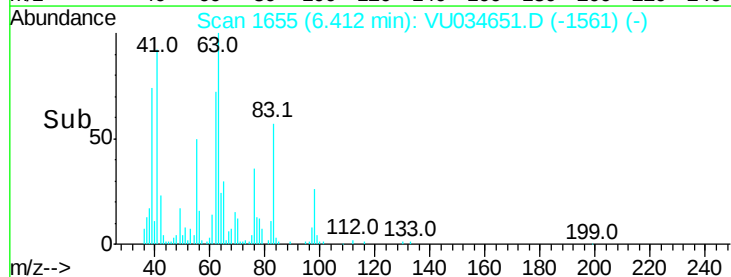
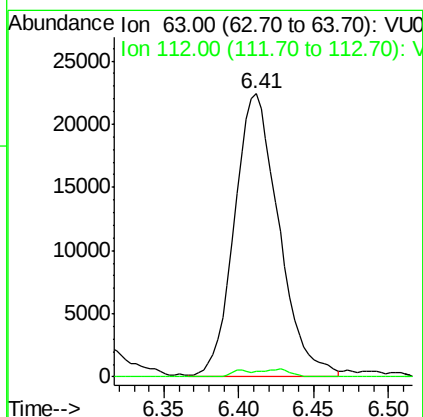
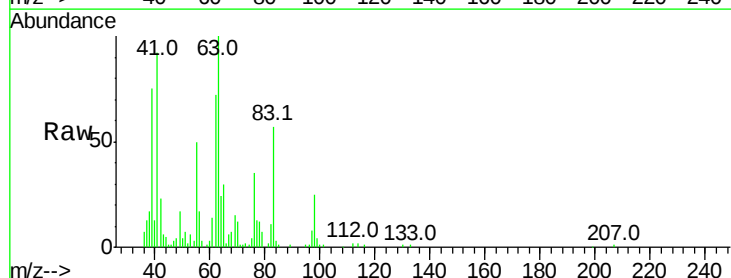
Instrument :
MSVOA_U
ClientSampleId :
VSTD01032

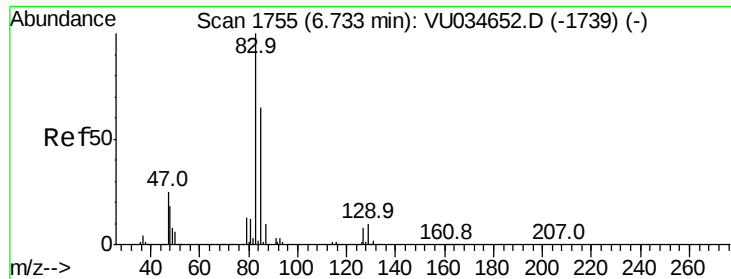
Tgt Ion: 83 Resp: 65882
Ion Ratio Lower Upper
83 100
55 89.0 71.6 107.4
98 43.7 35.7 53.5



#37
1,2-Dichloropropane
Concen: 12.925 ug/L
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VU034651.D
Acq: 19 Sep 2019 15:59

Tgt Ion: 63 Resp: 46114
Ion Ratio Lower Upper
63 100
112 1.0 2.4 3.6#





#38

Bromodichloromethane

Concen: 12.027 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

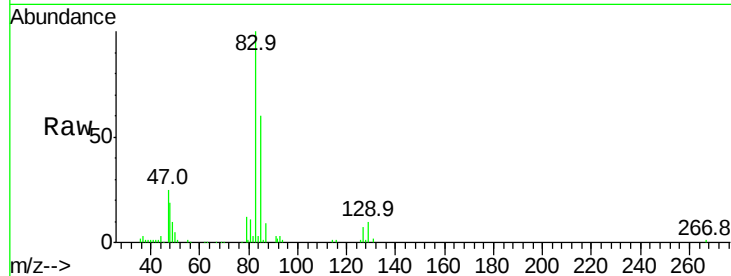
Tgt Ion: 83 Resp: 56094

Ion Ratio Lower Upper

83 100

85 60.1 45.5 84.5

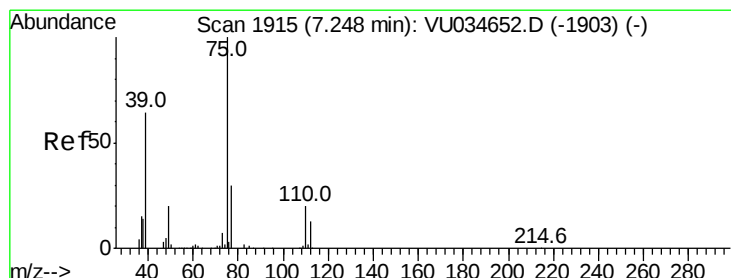
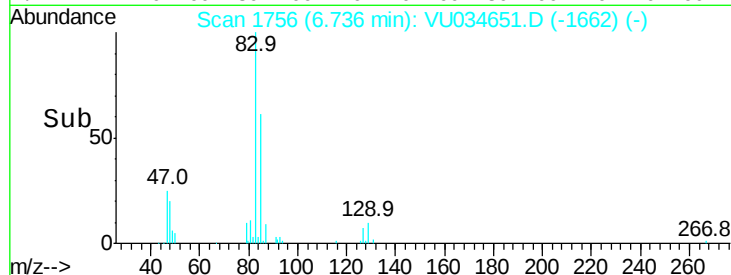
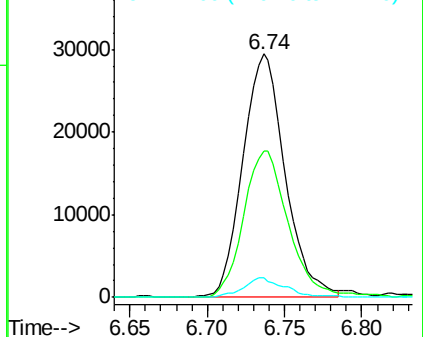
127 8.0 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VU034651.D (-1662) (-)

Ion 85.00 (84.70 to 85.70): VU034651.D (-1662) (-)

Ion 127.00 (126.70 to 127.70): VU034651.D (-1662) (-)



#39

cis-1,3-Dichloropropene

Concen: 12.502 ug/L

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VU034651.D

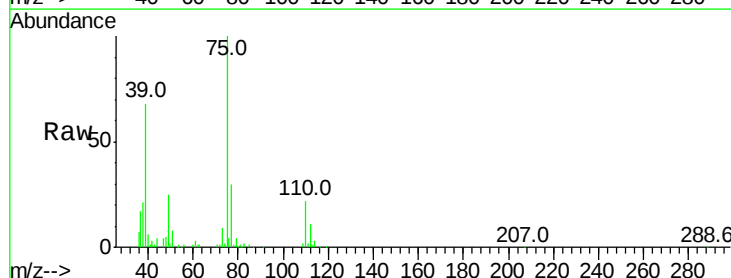
Acq: 19 Sep 2019 15:59

Tgt Ion: 75 Resp: 67013

Ion Ratio Lower Upper

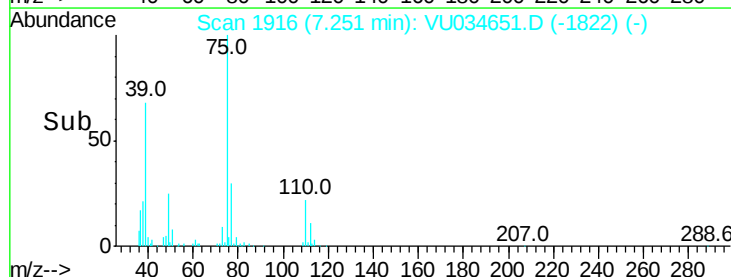
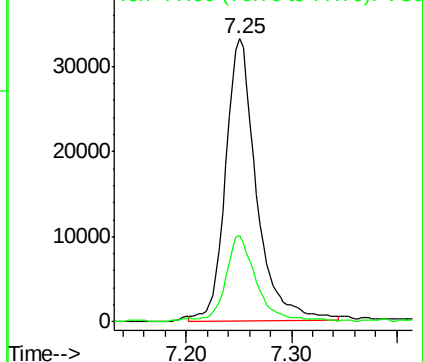
75 100

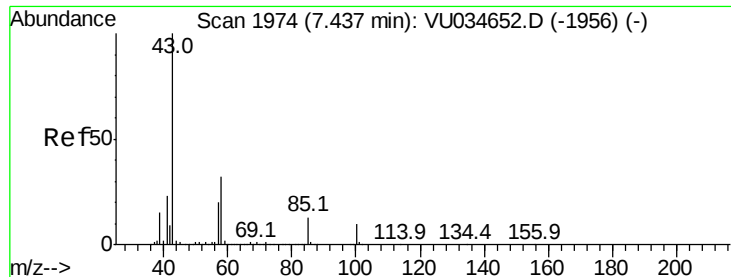
77 30.4 21.4 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU034651.D (-1822) (-)

Ion 77.00 (76.70 to 77.70): VU034651.D (-1822) (-)

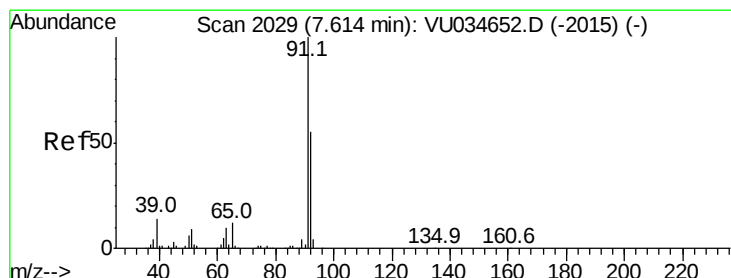
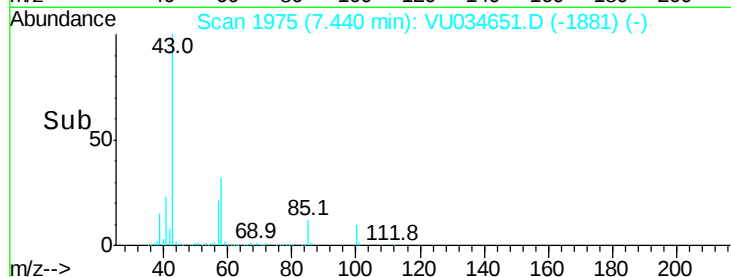
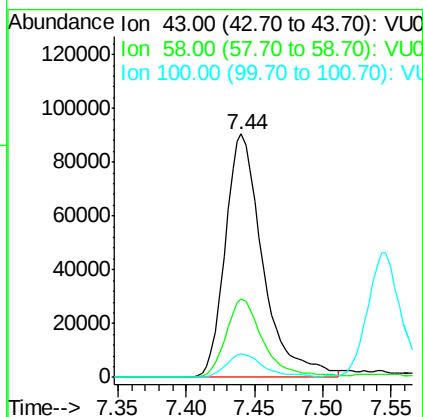
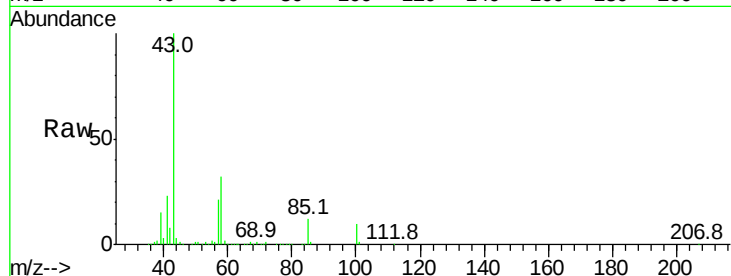




#40
4-Methyl-2-pentanone
Concen: 27.757 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU034651.D
Acq: 19 Sep 2019 15:59

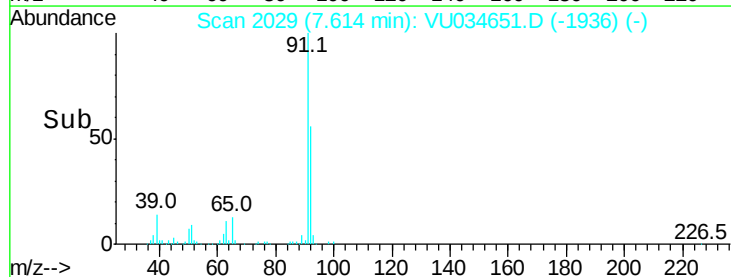
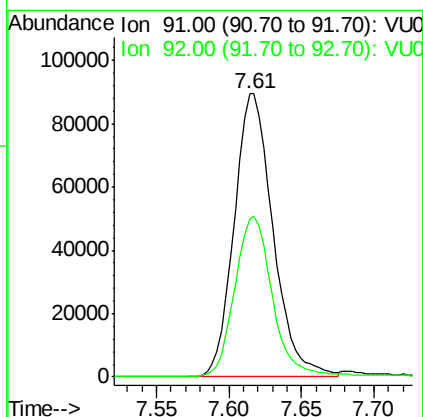
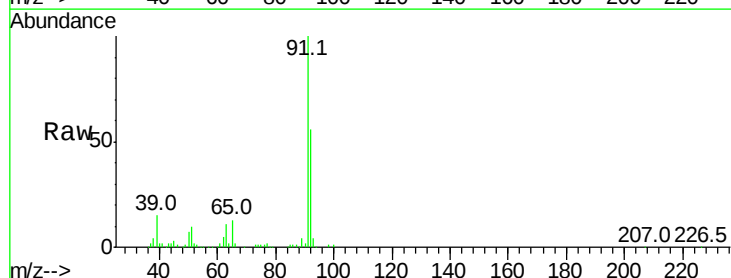
Instrument :
MSVOA_U
ClientSampleId :
VSTD01032

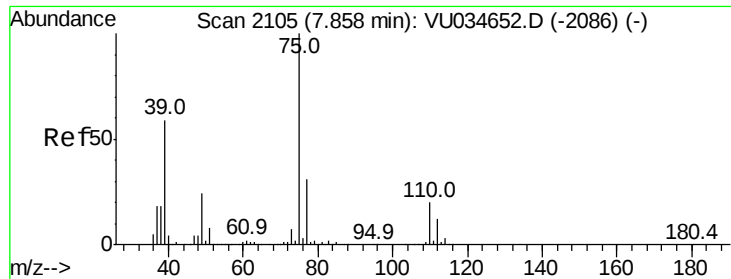
Tgt Ion: 43 Resp: 172262
Ion Ratio Lower Upper
43 100
58 31.7 25.2 37.8
100 9.7 7.7 11.5



#42
Toluene
Concen: 13.177 ug/L
RT: 7.61 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VU034651.D
Acq: 19 Sep 2019 15:59

Tgt Ion: 91 Resp: 167017
Ion Ratio Lower Upper
91 100
92 55.9 38.2 71.0





#44

trans-1,3-Dichloropropene

Concen: 12.090 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

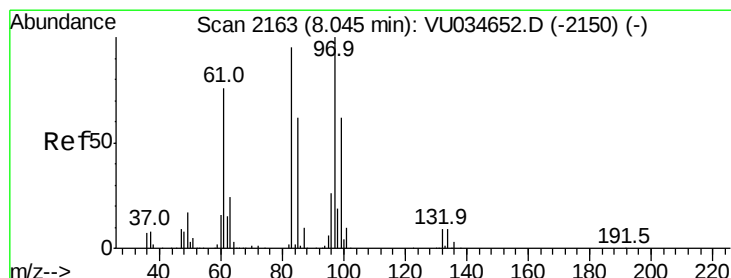
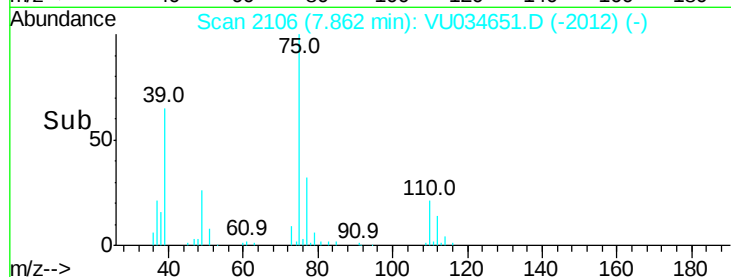
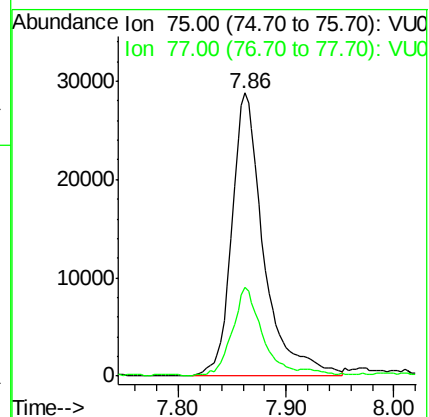
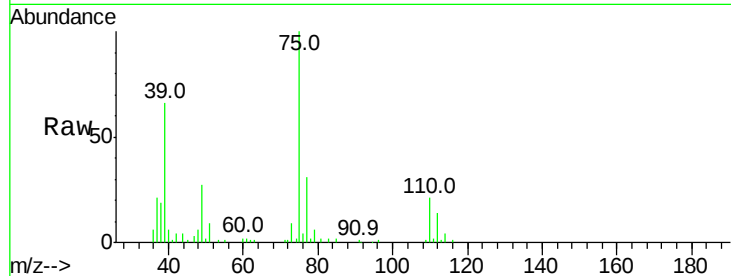
VSTD01032

Tgt Ion: 75 Resp: 59424

Ion Ratio Lower Upper

75 100

77 31.5 21.4 39.8



#45

1,1,2-Trichloroethane

Concen: 11.360 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Tgt Ion: 97 Resp: 36988

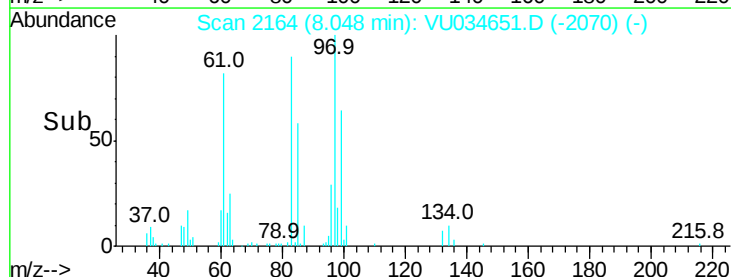
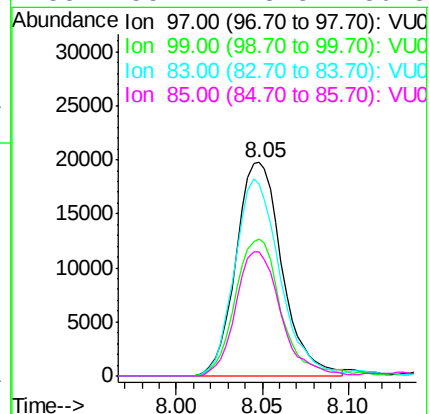
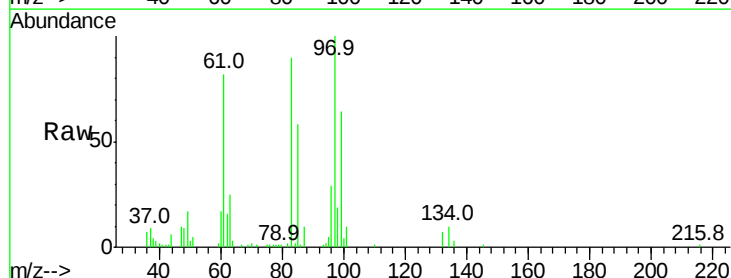
Ion Ratio Lower Upper

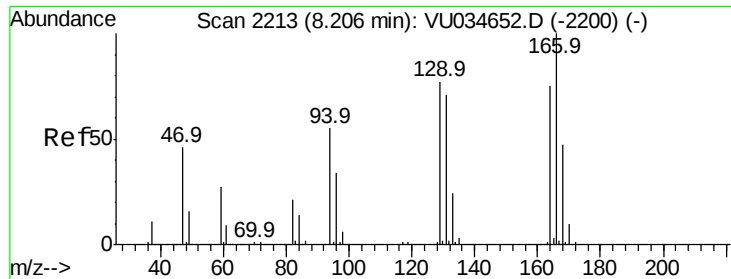
97 100

99 63.9 43.6 81.0

83 90.2 66.9 124.3

85 58.1 43.3 80.3





#46

Tetrachloroethene

Concen: 14.624 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

Tgt Ion:164 Resp: 28424

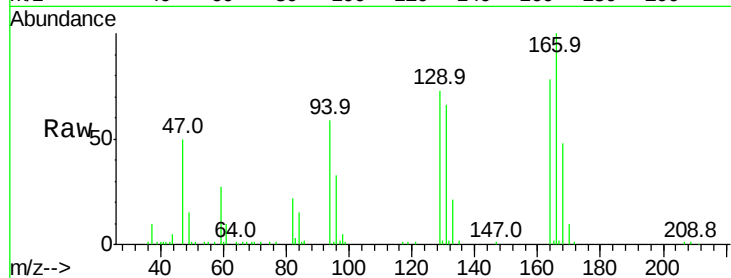
Ion Ratio Lower Upper

164 100

129 93.5 71.9 133.5

131 84.5 66.3 123.1

166 127.5 93.4 173.6

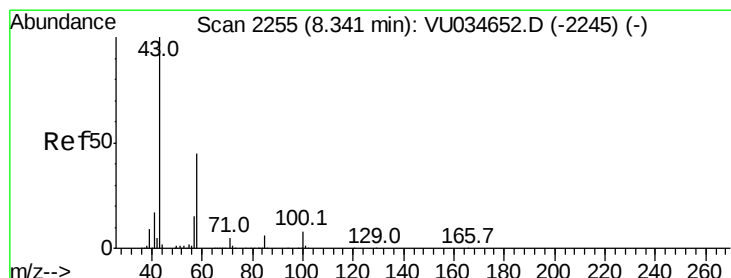
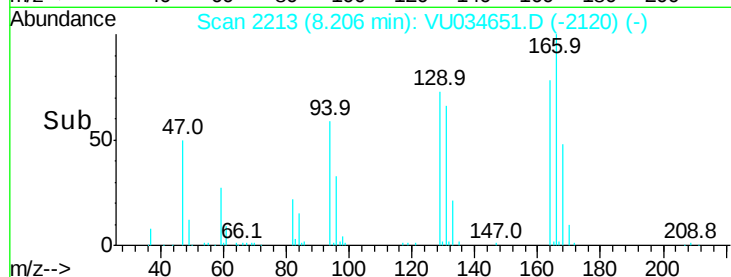
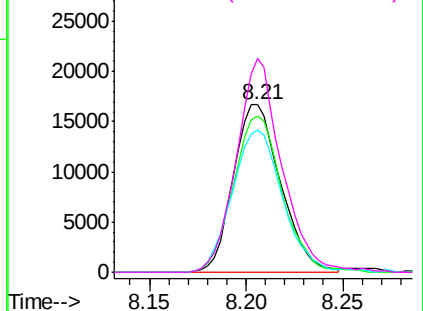


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 28.035 ug/L

RT: 8.34 min Scan# 2256

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Tgt Ion: 43 Resp: 130713

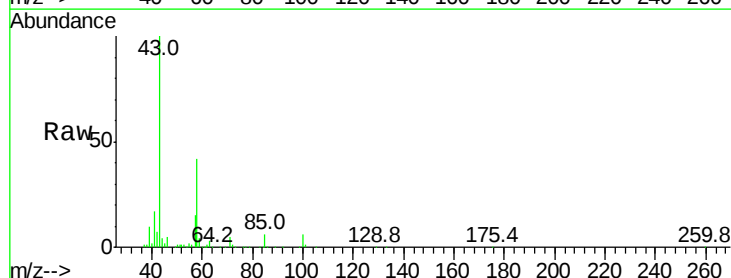
Ion Ratio Lower Upper

43 100

58 42.4 35.3 52.9

57 15.2 12.1 18.1

100 6.6 6.2 9.4

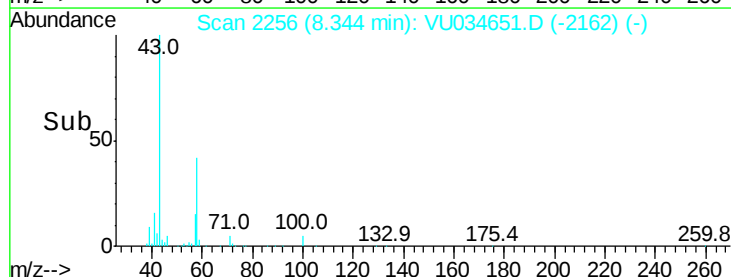
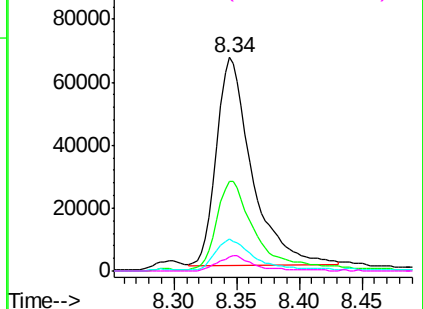


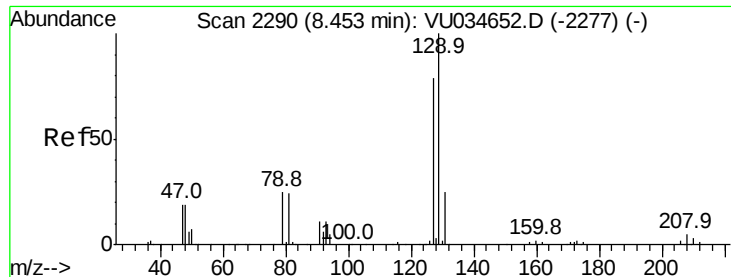
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#49

Dibromochloromethane

Concen: 10.756 ug/L

RT: 8.45 min Scan# 2290

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

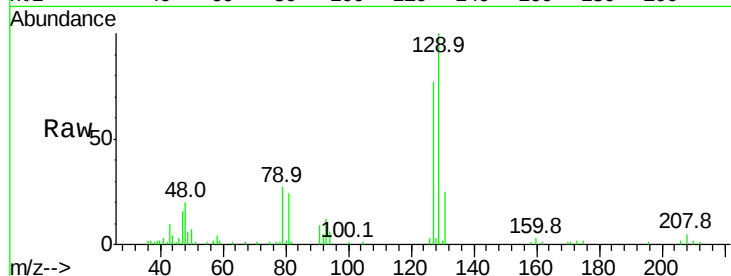
VSTD01032

Tgt Ion:129 Resp: 39664

Ion Ratio Lower Upper

129 100

127 77.2 55.5 103.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.45

25000

20000

15000

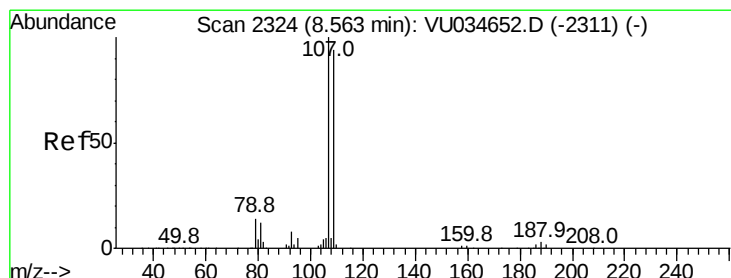
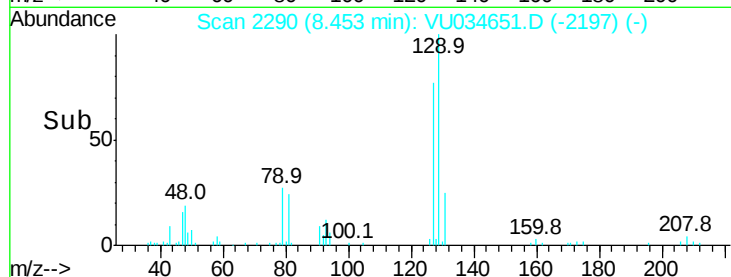
10000

5000

0

Time-->

8.40 8.45 8.50



#50

1,2-Dibromoethane

Concen: 11.339 ug/L

RT: 8.57 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

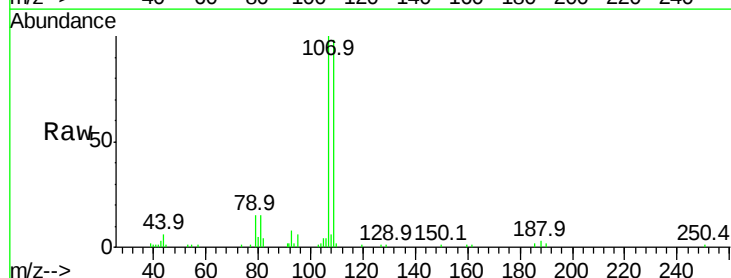
Tgt Ion:107 Resp: 38588

Ion Ratio Lower Upper

107 100

109 98.3 65.5 121.6

188 3.3 2.7 4.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

8.57

25000

20000

15000

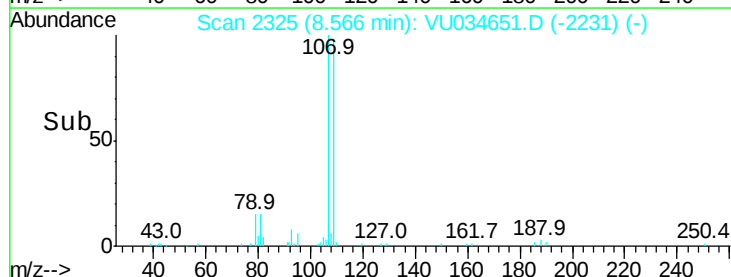
10000

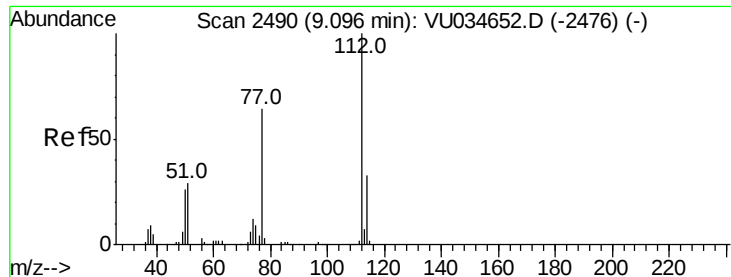
5000

0

Time-->

8.50 8.55 8.60





#51

Chlorobenzene

Concen: 12.058 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

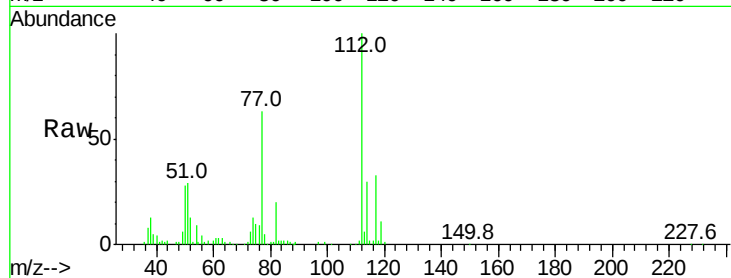
Tgt Ion: 112 Resp: 99845

Ion Ratio Lower Upper

112 100

114 30.0 22.8 42.4

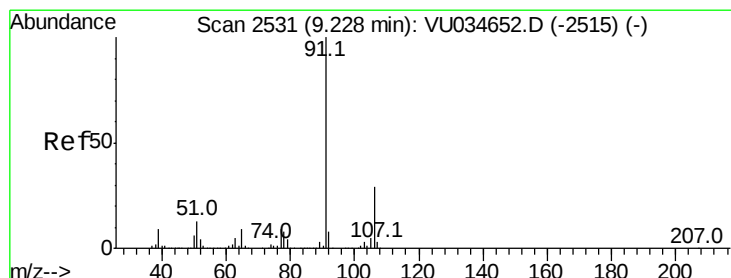
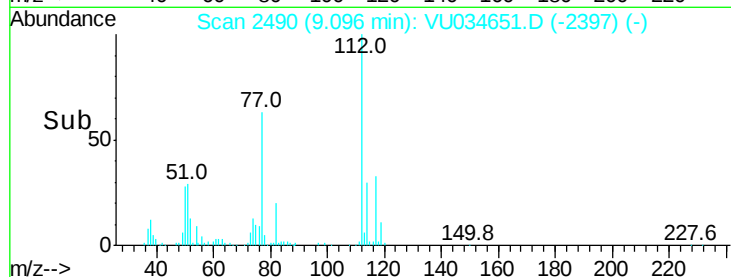
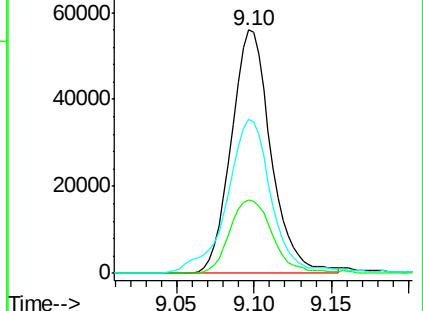
77 63.2 51.5 77.3



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 12.479 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034651.D

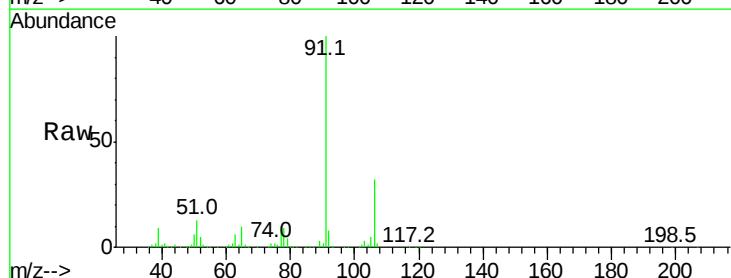
Acq: 19 Sep 2019 15:59

Tgt Ion: 91 Resp: 182997

Ion Ratio Lower Upper

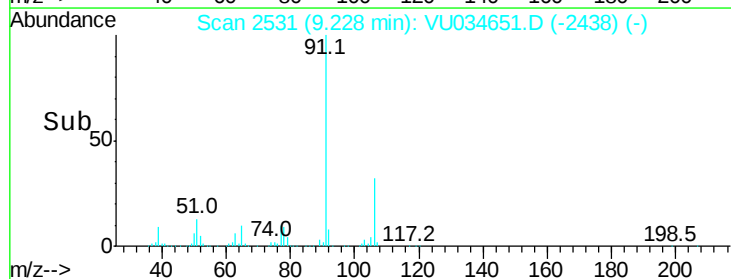
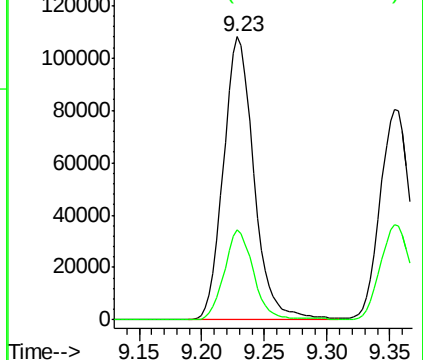
91 100

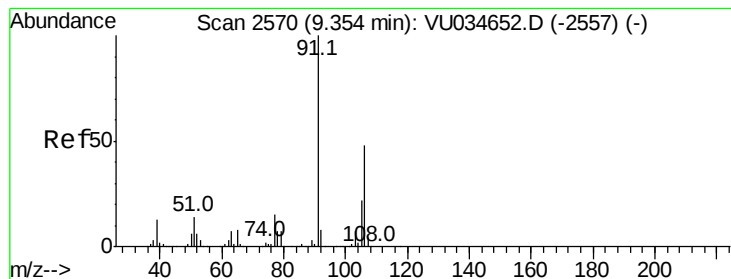
106 31.7 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 12.383 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

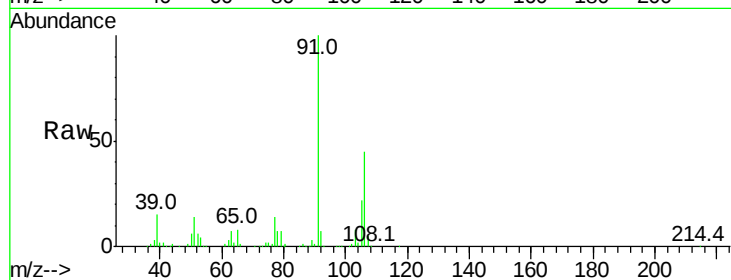
VSTD01032

Tgt Ion:106 Resp: 65288

Ion Ratio Lower Upper

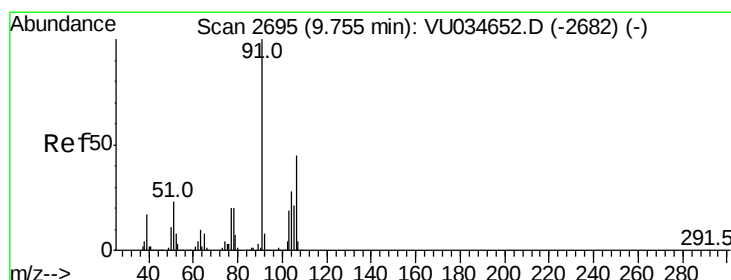
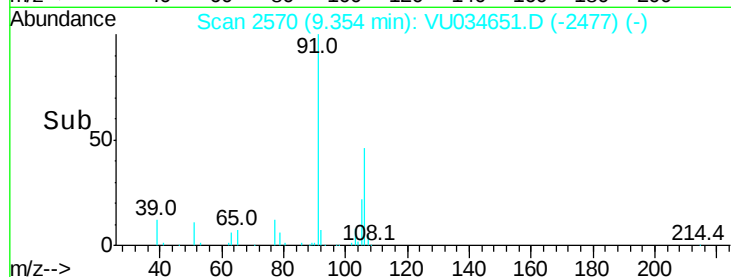
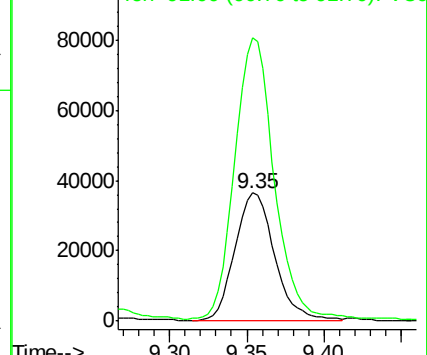
106 100

91 220.8 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 12.290 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.00 min

Lab File: VU034651.D

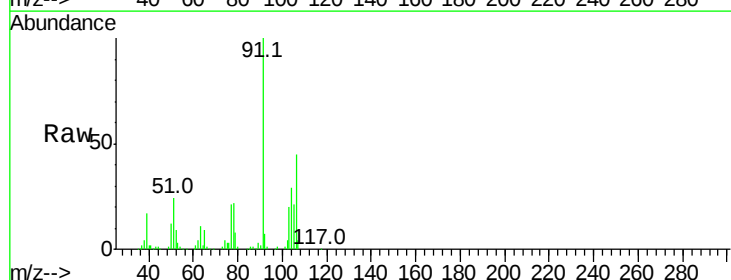
Acq: 19 Sep 2019 15:59

Tgt Ion:106 Resp: 65735

Ion Ratio Lower Upper

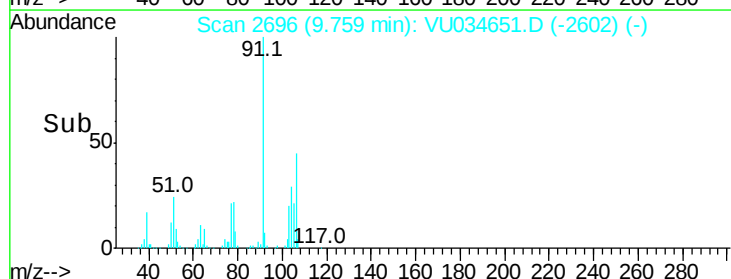
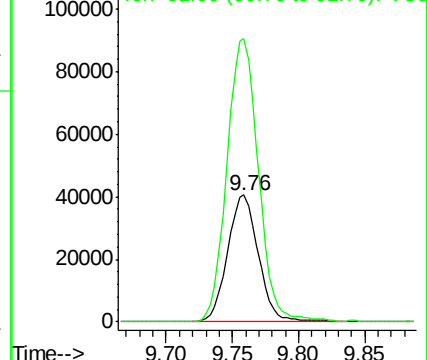
106 100

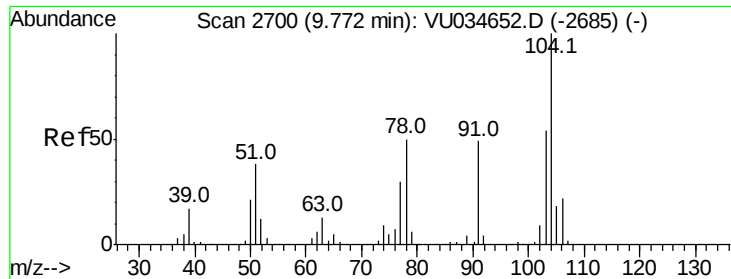
91 222.9 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Styrene

Concen: 11.616 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

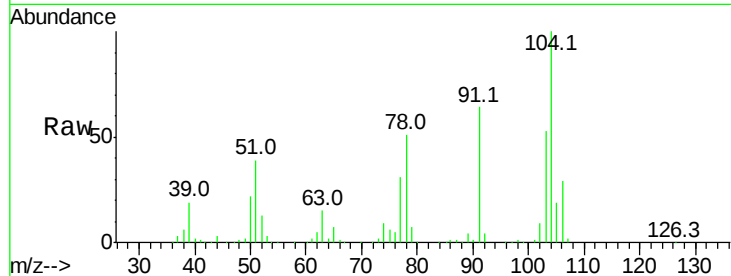
VSTD01032

Tgt Ion:104 Resp: 106942

Ion Ratio Lower Upper

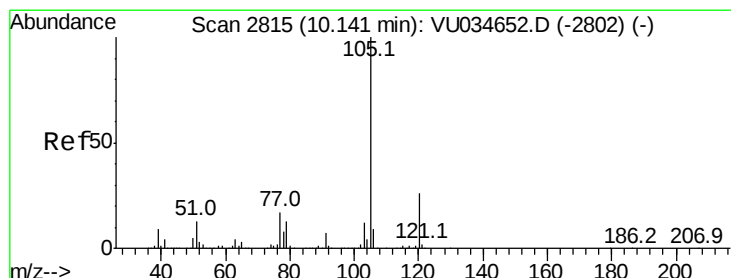
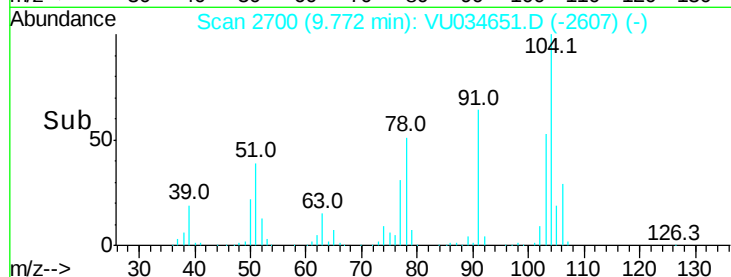
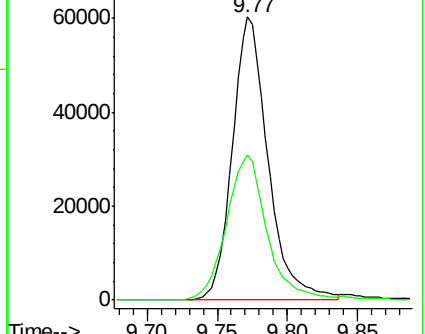
104 100

78 51.3 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 12.131 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

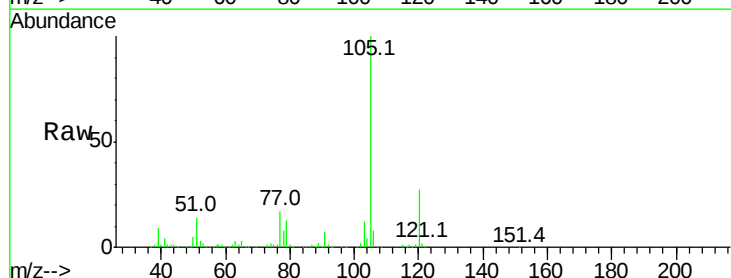
Tgt Ion:105 Resp: 174523

Ion Ratio Lower Upper

105 100

120 25.7 20.4 30.6

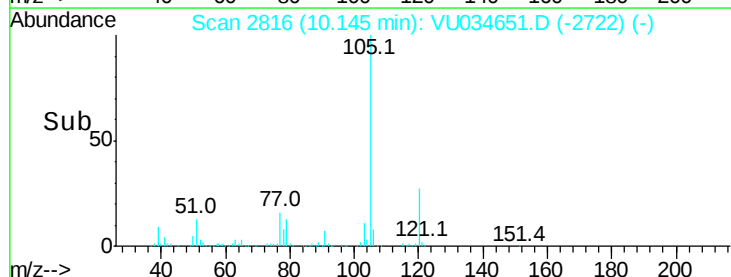
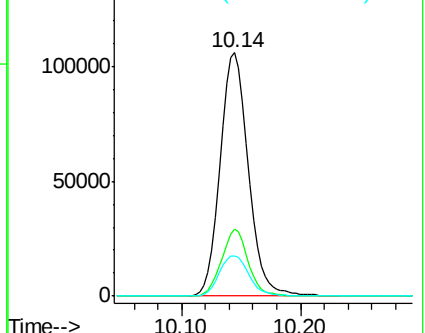
77 17.4 14.2 21.4

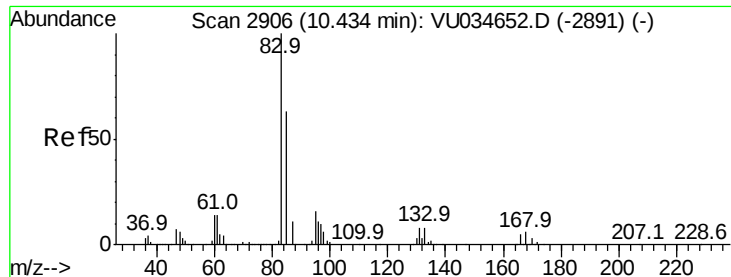


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 10.792 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

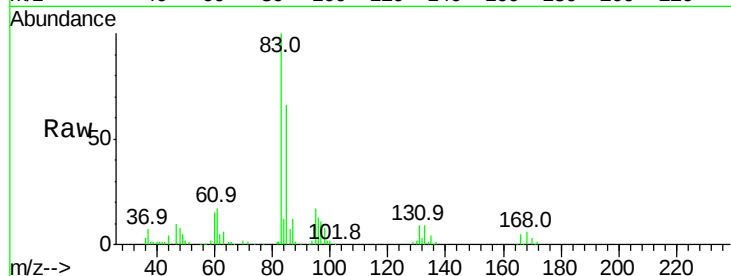
Tgt Ion: 83 Resp: 69873

Ion Ratio Lower Upper

83 100

85 65.7 44.6 82.8

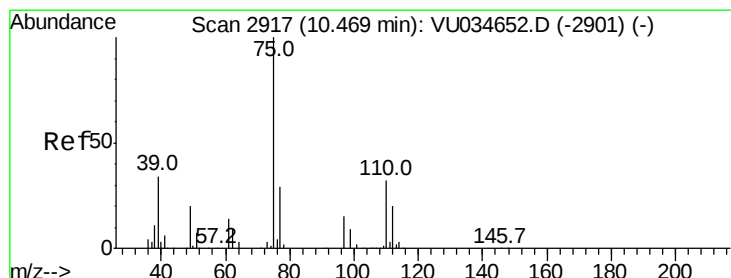
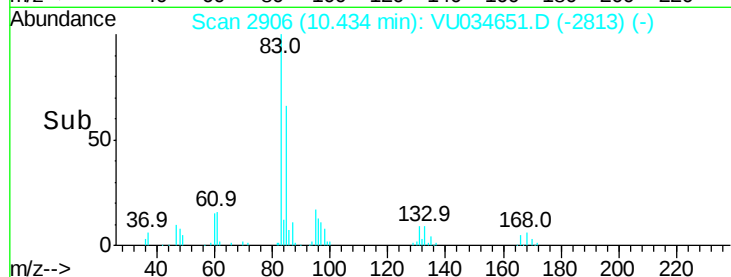
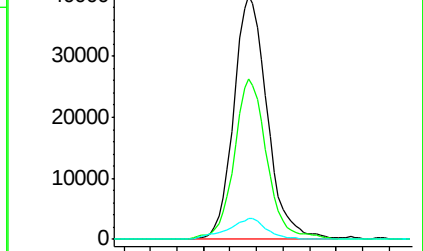
131 8.6 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VU034651.D (-2891) (-)

Ion 85.00 (84.70 to 85.70): VU034651.D (-2891) (-)

Ion 131.00 (130.70 to 131.70): VU034651.D (-2891) (-)



#59

1,2,3-Trichloropropane

Concen: 11.707 ug/L

RT: 10.47 min Scan# 2918

Delta R.T. 0.00 min

Lab File: VU034651.D

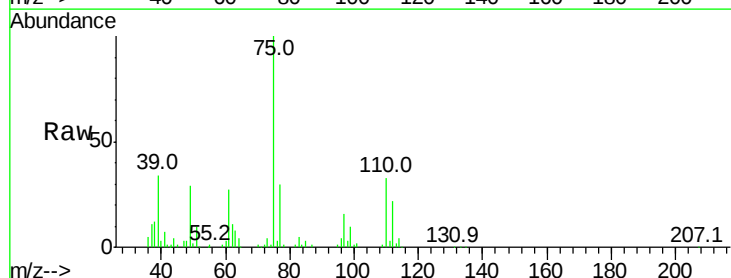
Acq: 19 Sep 2019 15:59

Tgt Ion: 75 Resp: 57050

Ion Ratio Lower Upper

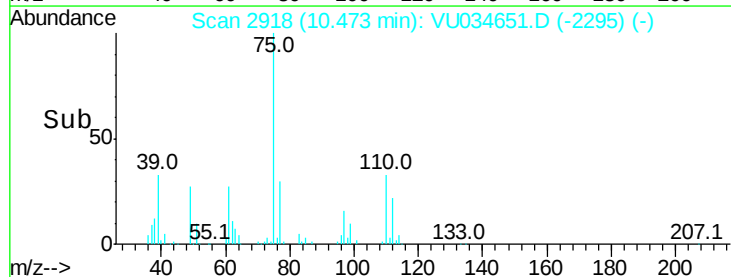
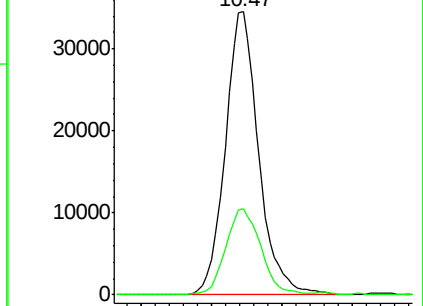
75 100

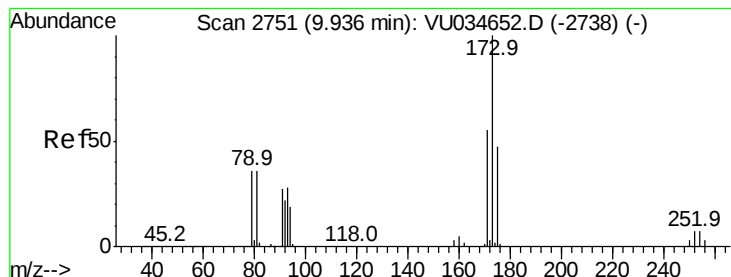
77 32.2 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VU034651.D (-2901) (-)

Ion 77.00 (76.70 to 77.70): VU034651.D (-2901) (-)





#61

Bromoform

Concen: 10.575 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

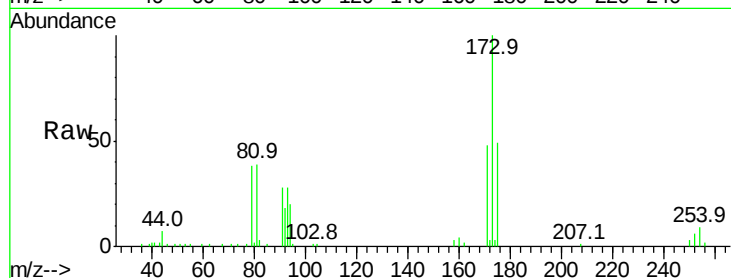
Tgt Ion:173 Resp: 27300

Ion Ratio Lower Upper

173 100

175 48.9 38.8 58.2

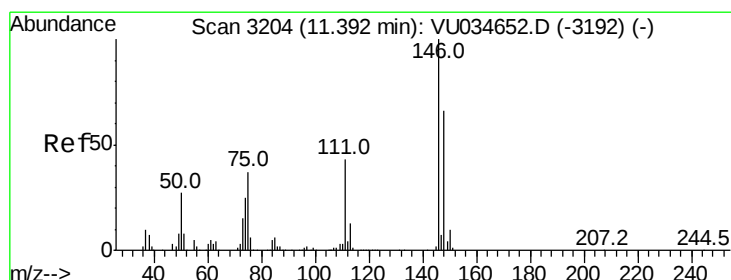
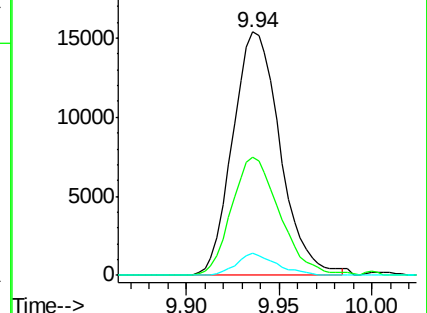
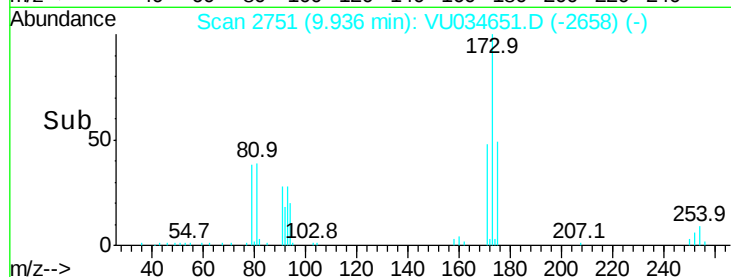
254 7.7 5.3 7.9



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 11.454 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

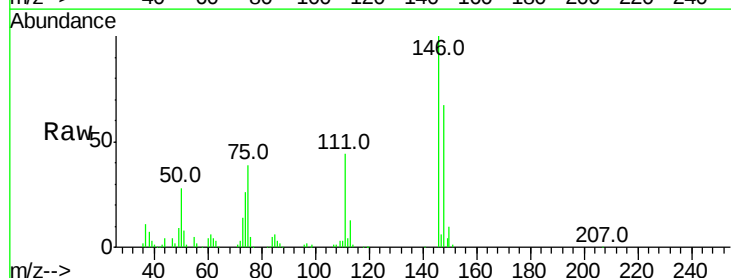
Tgt Ion:146 Resp: 69438

Ion Ratio Lower Upper

146 100

111 44.2 30.4 56.5

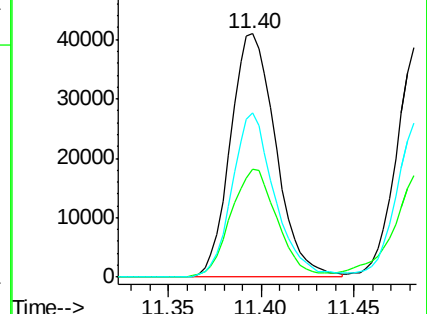
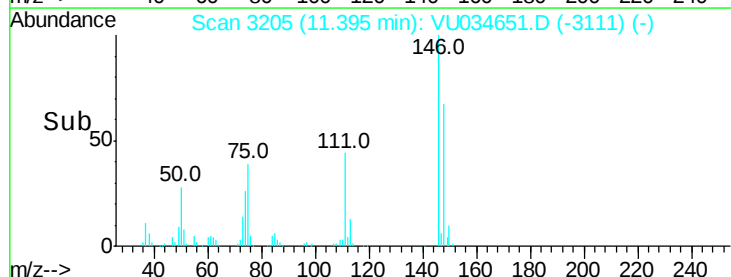
148 67.3 46.1 85.7

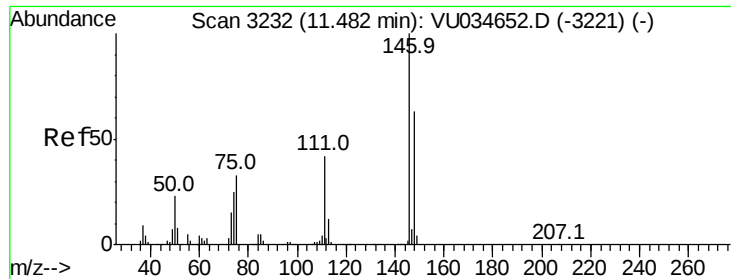


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

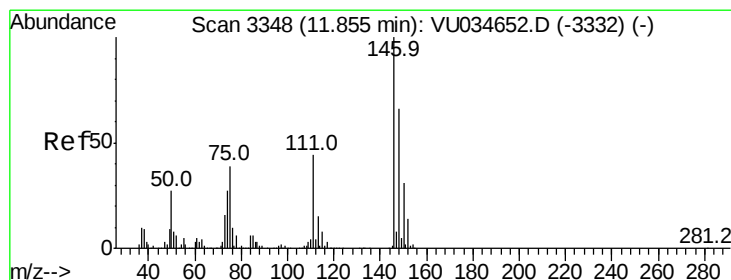
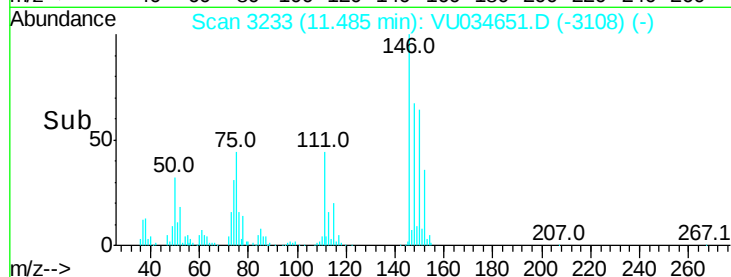
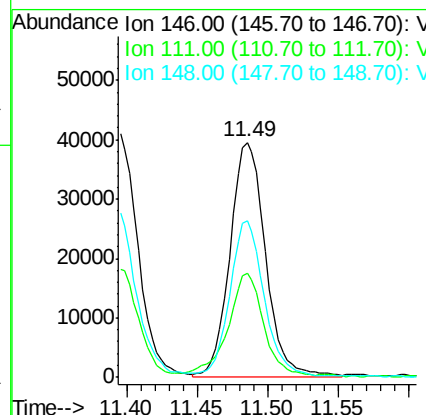
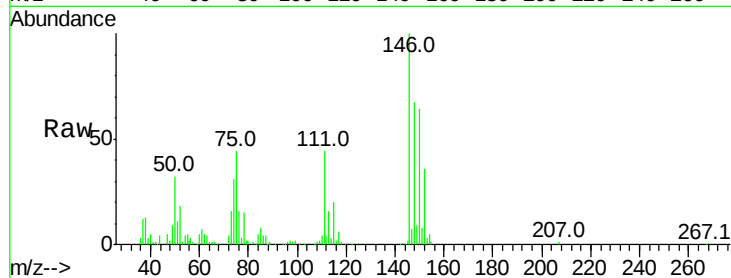




#63
 1,4-Dichlorobenzene
 Concen: 11.363 ug/L
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034651.D
 Acq: 19 Sep 2019 15:59

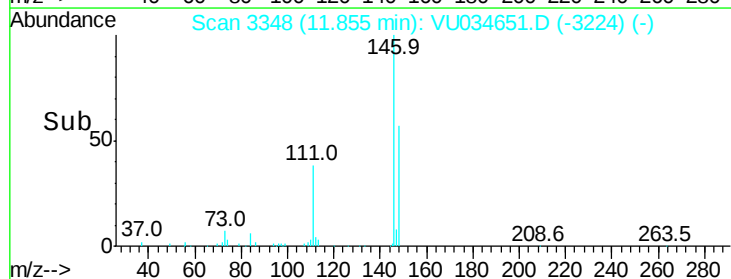
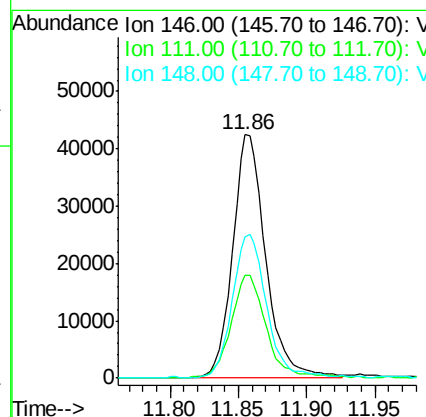
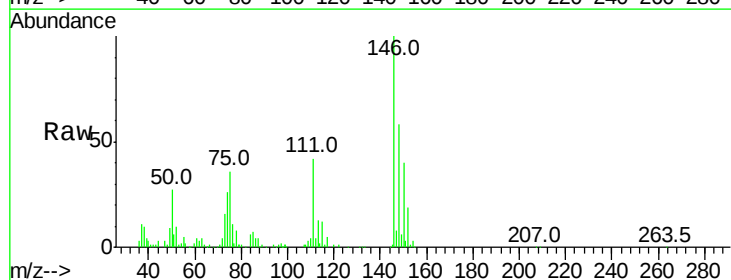
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01032

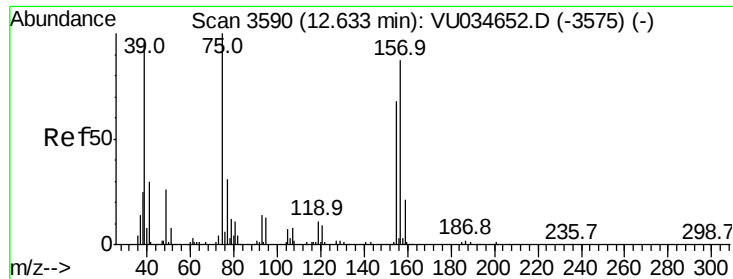
Tgt Ion:146 Resp: 69559
 Ion Ratio Lower Upper
 146 100
 111 44.2 29.5 54.9
 148 66.6 44.4 82.4



#65
 1,2-Dichlorobenzene
 Concen: 11.721 ug/L
 RT: 11.86 min Scan# 3348
 Delta R.T. 0.00 min
 Lab File: VU034651.D
 Acq: 19 Sep 2019 15:59

Tgt Ion:146 Resp: 71675
 Ion Ratio Lower Upper
 146 100
 111 42.3 35.2 52.8
 148 58.0 53.0 79.6





#66

1,2-Dibromo-3-chloropropane

Concen: 10.655 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. 0.01 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

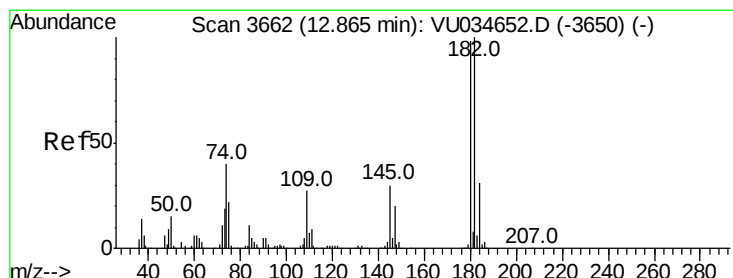
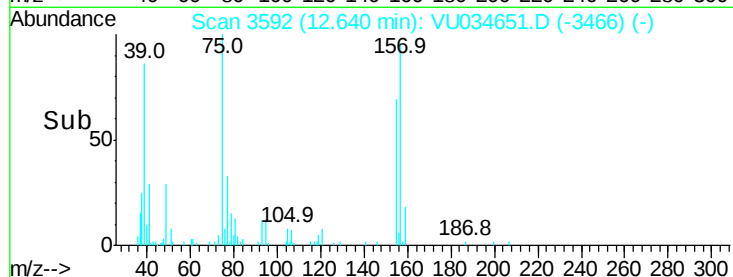
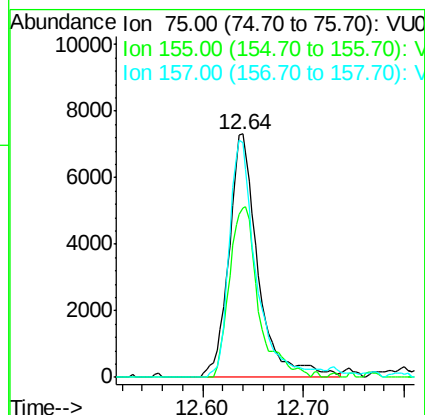
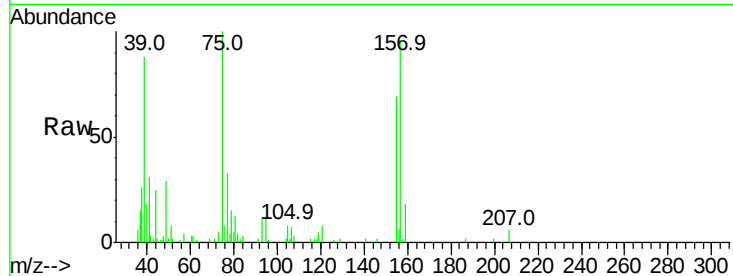
Tgt Ion: 75 Resp: 14761

Ion Ratio Lower Upper

75 100

155 69.4 54.7 82.1

157 96.2 69.9 104.9



#67

1,3,5-Trichlorobenzene

Concen: 11.087 ug/L

RT: 12.87 min Scan# 3663

Delta R.T. 0.00 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Tgt Ion: 180 Resp: 43808

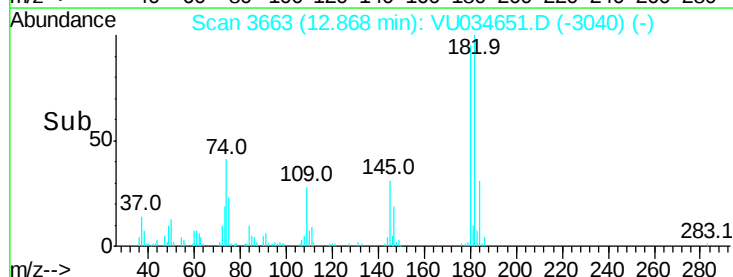
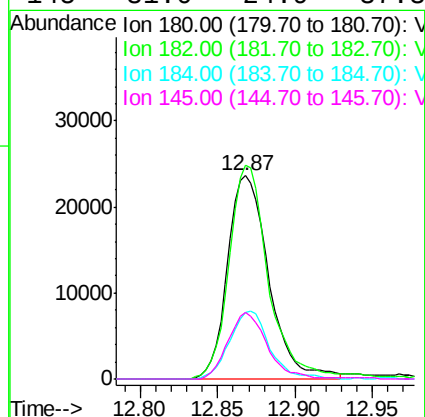
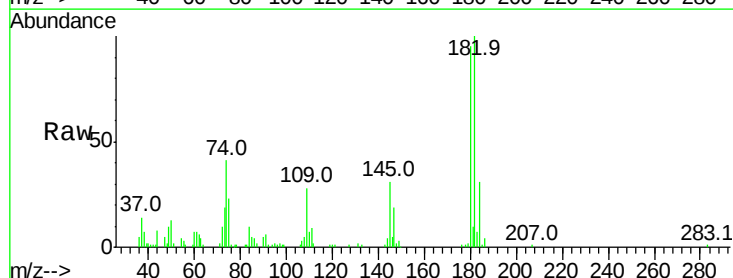
Ion Ratio Lower Upper

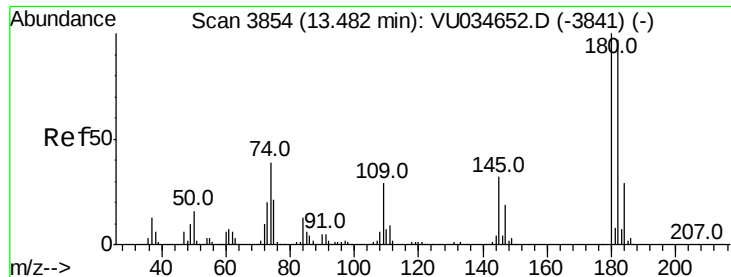
180 100

182 101.2 79.2 118.8

184 31.3 24.6 36.8

145 31.0 24.9 37.3





#68

1,2,4-trichlorobenzene

Concen: 8.976 ug/L

RT: 13.49 min Scan# 3856

Delta R.T. 0.01 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD01032

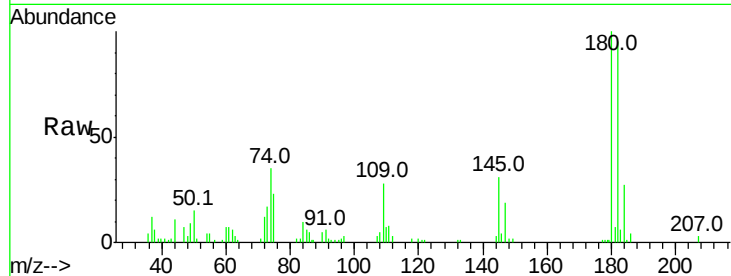
Tgt Ion:180 Resp: 30298

Ion Ratio Lower Upper

180 100

182 97.8 75.7 113.5

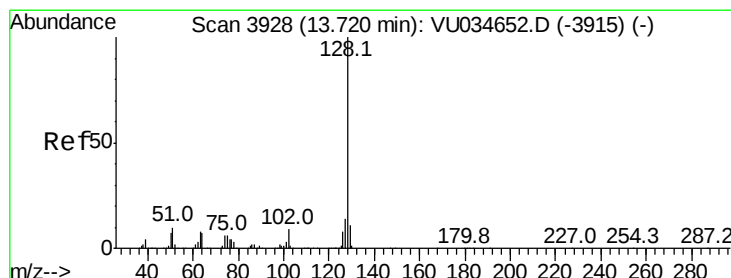
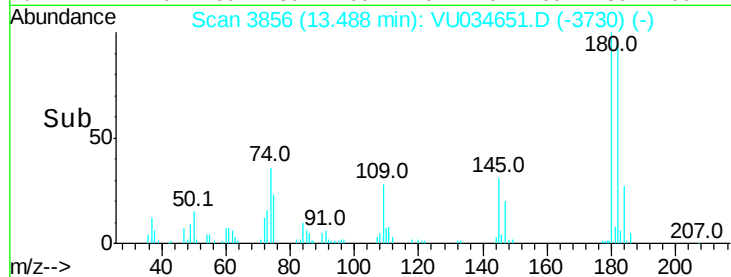
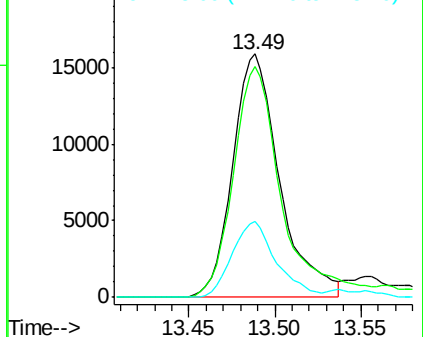
145 29.2 25.2 37.8



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



#69

Naphthalene

Concen: 7.467 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. 0.01 min

Lab File: VU034651.D

Acq: 19 Sep 2019 15:59

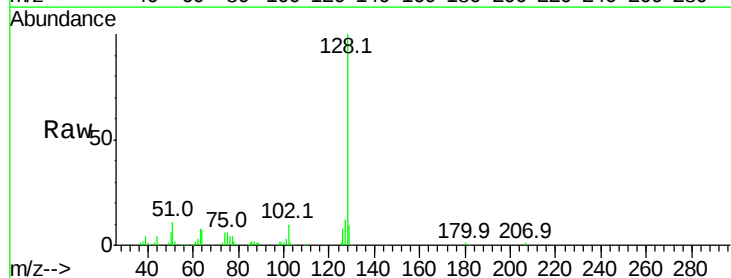
Tgt Ion:128 Resp: 93115

Ion Ratio Lower Upper

128 100

127 13.9 10.8 16.2

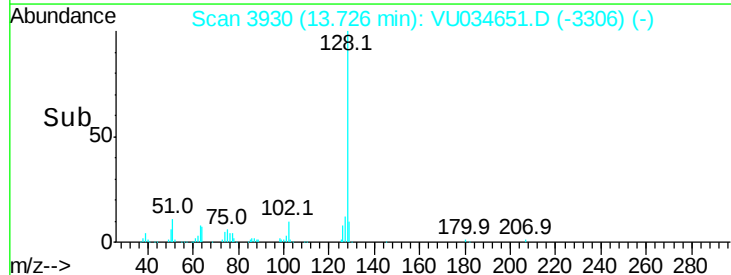
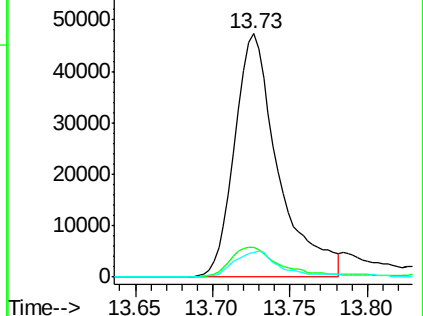
129 10.6 8.6 12.8

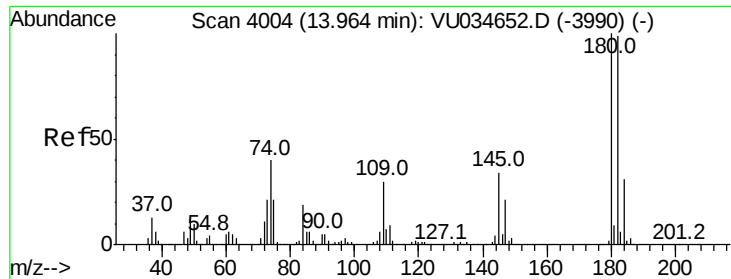


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

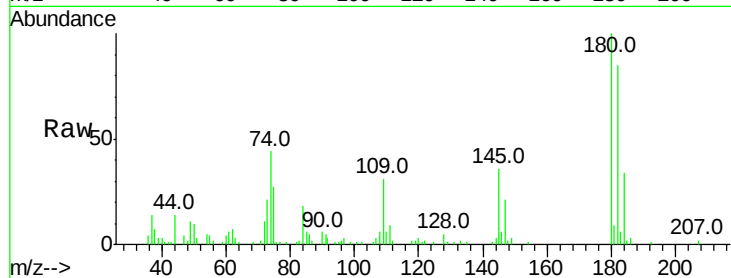




#70
 1,2,3-Trichlorobenzene
 Concen: 9.598 ug/L
 RT: 13.97 min Scan# 4005
 Delta R.T. 0.00 min
 Lab File: VU034651.D
 Acq: 19 Sep 2019 15:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01032

Tgt Ion:180 Resp: 33167
 Ion Ratio Lower Upper
 180 100
 182 92.5 79.2 118.8
 145 32.1 26.0 39.0



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

