

Data File : VU028412.D
Acq On : 30 Nov 2018 10:37
Operator : MD/SY
Sample : VSTD20057
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20057

Quant Time: Nov 30 22:54:41 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM113018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Nov 30 22:49:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	477648	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	468902	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	237260	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	862899	201.92	ug/L	0.00
7) Chloroethane-d5	1.67	69	661412	201.59	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	1554903	204.60	ug/L	0.00
21) 2-Butanone-d5	4.17	46	1442919	411.41	ug/L	0.00
24) Chloroform-d	4.65	84	1407937	204.23	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	914378	194.77	ug/L	0.00
32) Benzene-d6	5.34	84	2903601	198.90	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	1041661	197.78	ug/L	0.00
41) Toluene-d8	7.57	98	2632597	199.00	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	491875	206.82	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1057095	415.53	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1402996	208.37	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	954697	200.08	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	865026	202.541	ug/L	100
3) Chloromethane	1.33	50	1302344	211.045	ug/L	99
5) Vinyl chloride	1.40	62	1074191	203.527	ug/L	99
6) Bromomethane	1.61	94	292076	196.602	ug/L	100
8) Chloroethane	1.69	64	583095	196.790	ug/L	99
9) Trichlorofluoromethane	1.88	101	1082580	201.402	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	618885	198.344	ug/L	100
12) 1,1-Dichloroethene	2.28	96	614803	203.966	ug/L	93
13) Acetone	2.32	43	1199268	328.699	ug/L	98
14) Carbon disulfide	2.48	76	2315948	202.944	ug/L	100
15) Methyl Acetate	2.61	43	1069561	198.146	ug/L	99
16) Methylene chloride	2.70	84	784561	201.067	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	693746	203.088	ug/L	95
18) Methyl tert-butyl Ether	3.00	73	2371226	199.759	ug/L	100
19) 1,1-Dichloroethane	3.45	63	1487048	201.523	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	800875	203.847	ug/L	98
22) 2-Butanone	4.26	43	1705224	373.346	ug/L	98
23) Bromochloromethane	4.55	128	339543	197.553	ug/L	96
25) Chloroform	4.67	83	1358487	201.073	ug/L	98
27) 1,2-Dichloroethane	5.40	62	1118517	199.984	ug/L	100
29) Cyclohexane	5.00	56	1489047	195.673	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	1102687	198.672	ug/L	100
31) Carbon tetrachloride	5.13	117	892253	199.590	ug/L	99
33) Benzene	5.39	78	3180131	197.437	ug/L	100
34) Trichloroethene	6.18	95	774728	201.156	ug/L	99
35) Methylcyclohexane	6.41	83	1336354	199.328	ug/L	100
37) 1,2-Dichloropropane	6.43	63	938631	196.540	ug/L	100
38) Bromodichloromethane	6.76	83	1054025	198.900	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	1395474	205.791	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	3008686	398.352	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	3301606	201.411	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	1283021	206.488	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	747900	201.380	ug/L	98
46) Tetrachloroethene	8.23	164	535924	197.876	ug/L	98
48) 2-Hexanone	8.36	43	2468564	389.018	ug/L	100
49) Dibromochloromethane	8.48	129	778211	204.850	ug/L	97
50) 1,2-Dibromoethane	8.58	107	795587	199.294	ug/L	97
51) Chlorobenzene	9.12	112	1990021	203.513	ug/L	100
52) Ethylbenzene	9.25	91	3723729	205.645	ug/L	100
53) m,p-Xylene	9.37	106	1329371	205.837	ug/L	97
54) o-xylene	9.78	106	1319973	206.347	ug/L	100
55) Styrene	9.79	104	2309068	210.686	ug/L	99
56) Isopropylbenzene	10.17	105	3477666	206.079	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	1411996	203.815	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	1088430	200.776	ug/L	100
61) Bromoform	9.96	173	588400	201.610	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	1544268	199.701	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	1557034	199.948	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	1532800	199.699	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	311103	201.196	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	1180926	207.592	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	1106133	208.776	ug/L	99
69) Naphthalene	13.74	128	3833683	207.513	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	1095878	205.341	ug/L	99

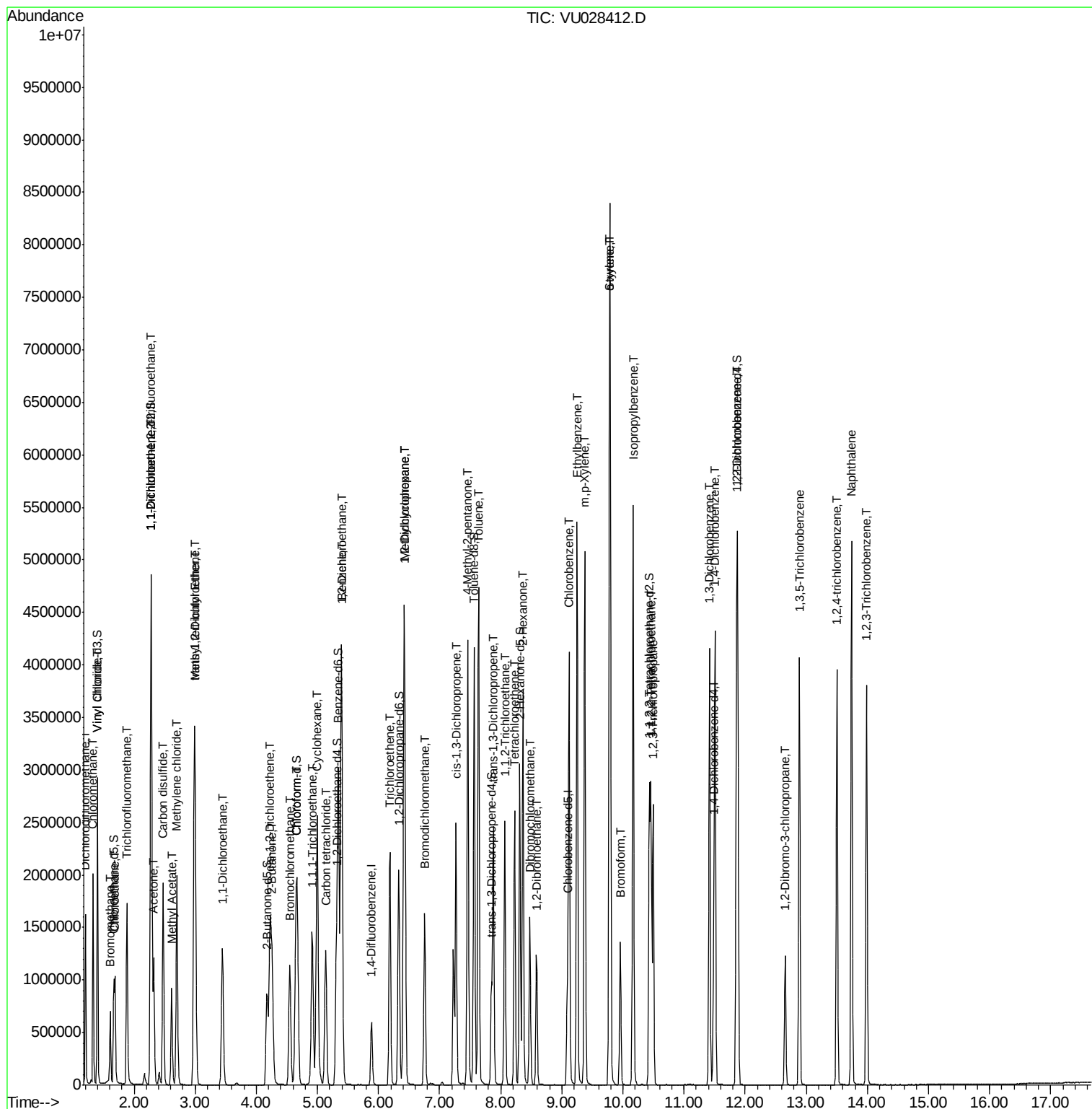
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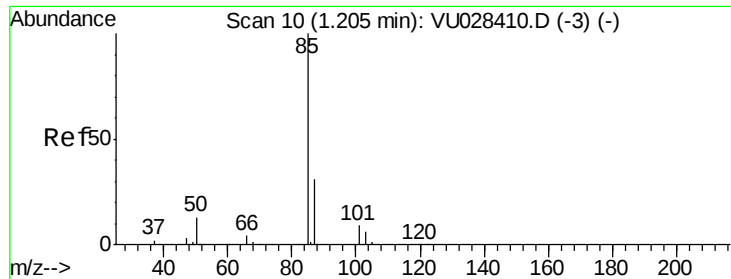
Data File : VU028412.D

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#2

Dichlorodifluoromethane

Concen: 202.541 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

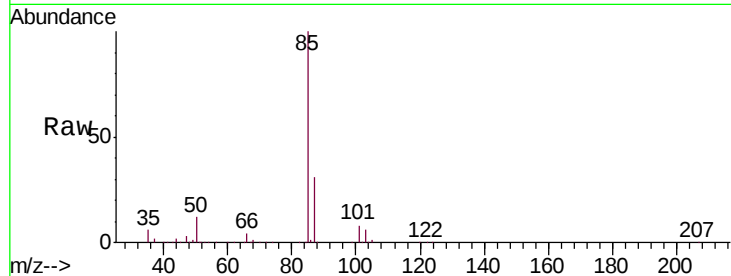
VSTD20057

Tgt Ion: 85 Resp: 865026

Ion Ratio Lower Upper

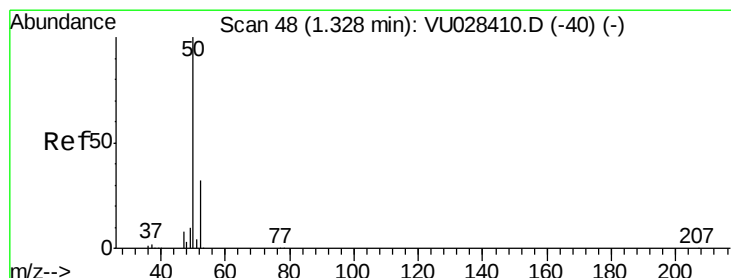
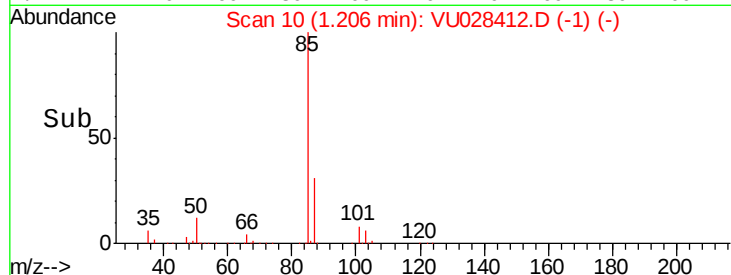
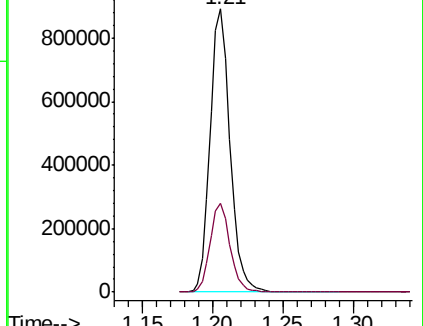
85 100

87 31.4 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 211.045 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028412.D

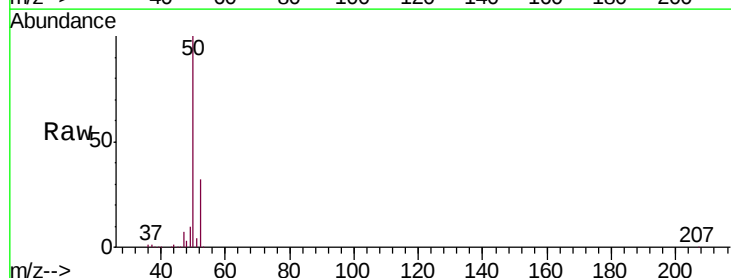
Acq: 30 Nov 2018 10:37

Tgt Ion: 50 Resp: 1302344

Ion Ratio Lower Upper

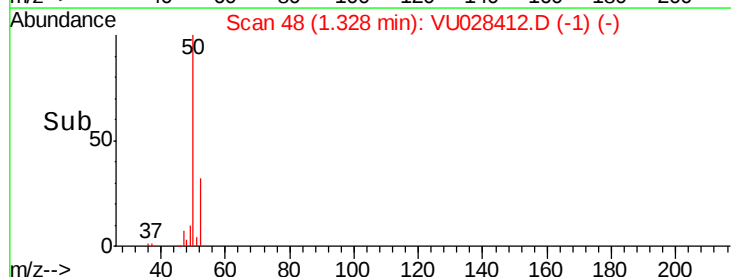
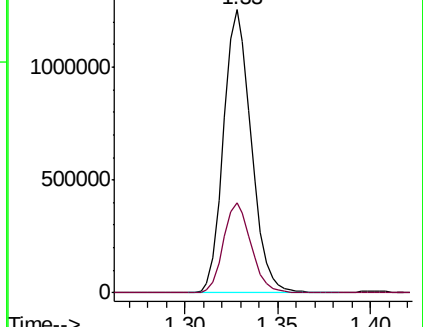
50 100

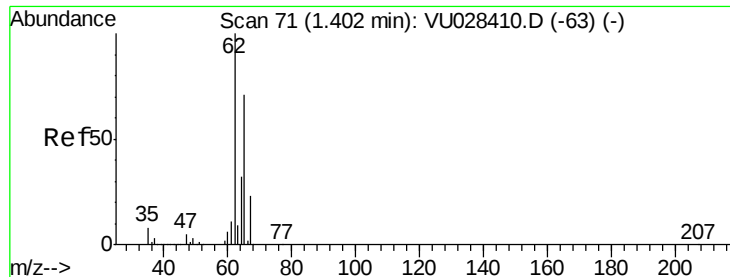
52 32.0 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 203.527 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

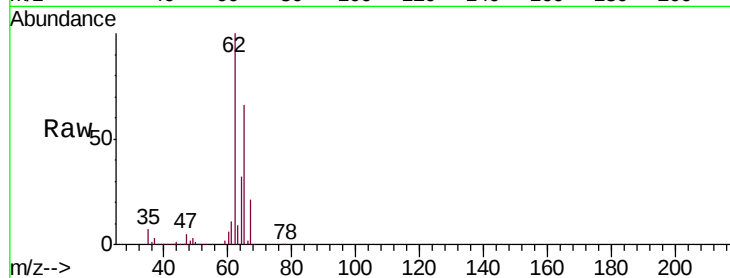
VSTD20057

Tgt Ion: 62 Resp: 1074191

Ion Ratio Lower Upper

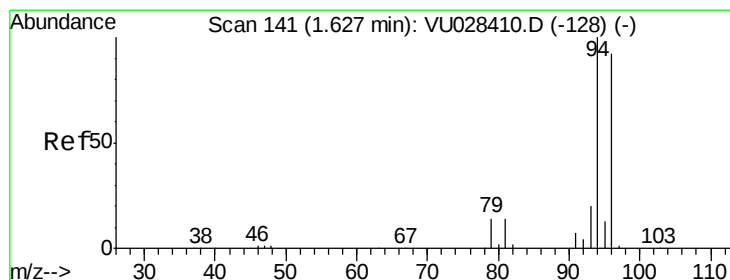
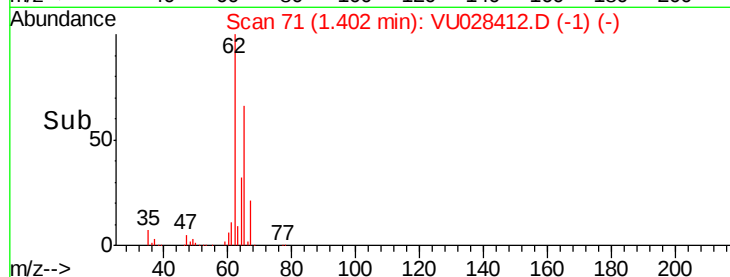
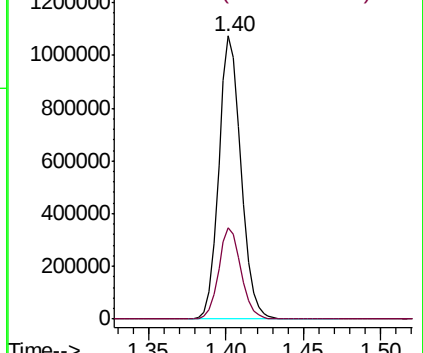
62 100

64 32.3 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 196.602 ug/L

RT: 1.61 min Scan# 136

Delta R.T. -0.02 min

Lab File: VU028412.D

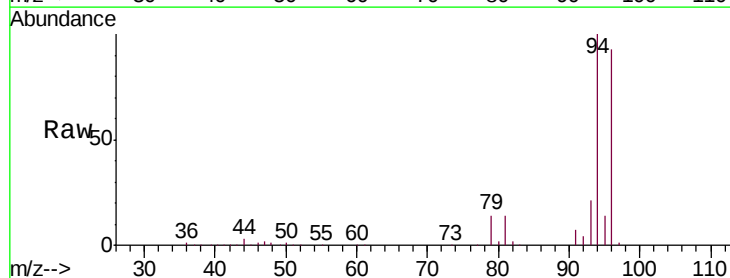
Acq: 30 Nov 2018 10:37

Tgt Ion: 94 Resp: 292076

Ion Ratio Lower Upper

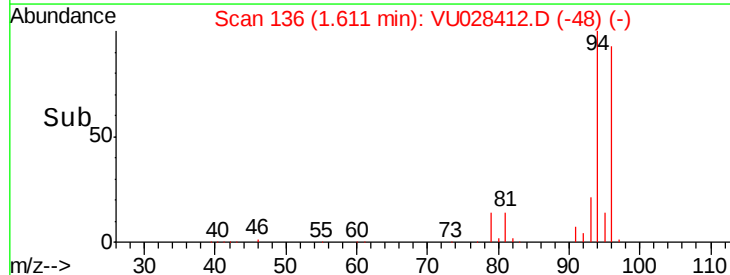
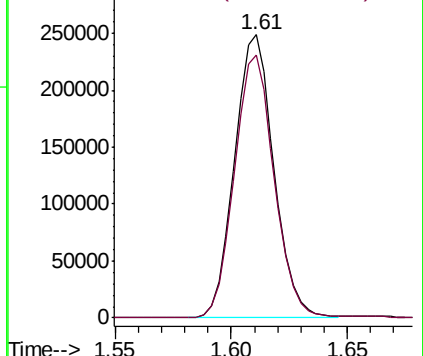
94 100

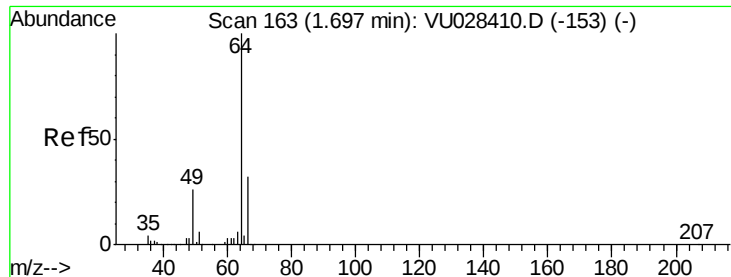
96 92.7 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 196.790 ug/L

RT: 1.69 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

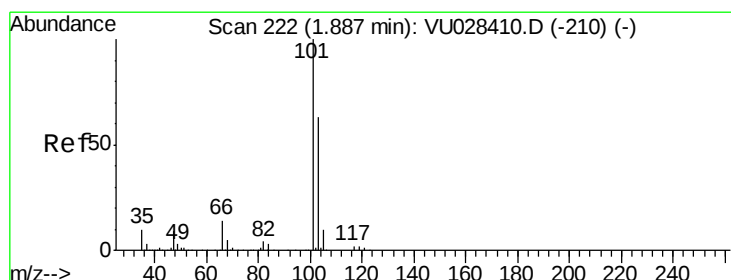
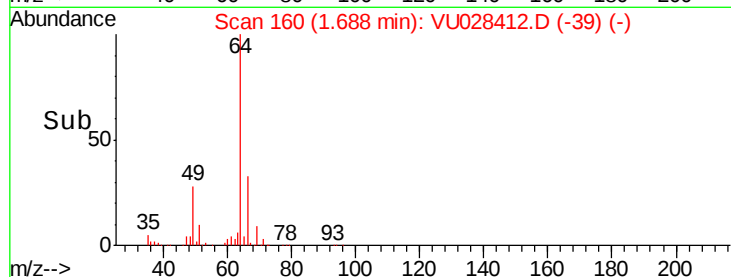
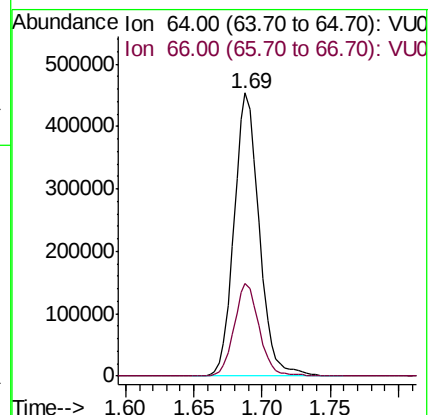
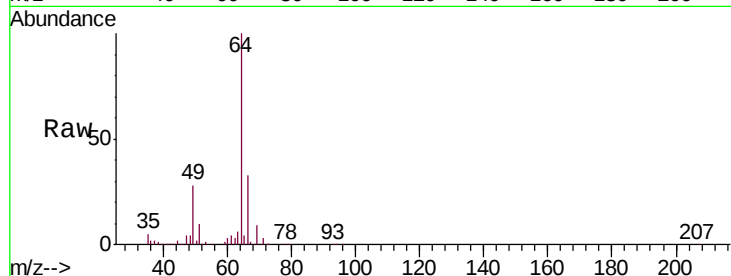
VSTD20057

Tgt Ion: 64 Resp: 583095

Ion Ratio Lower Upper

64 100

66 32.6 22.5 41.7



#9

Trichlorofluoromethane

Concen: 201.402 ug/L

RT: 1.88 min Scan# 221

Delta R.T. -0.00 min

Lab File: VU028412.D

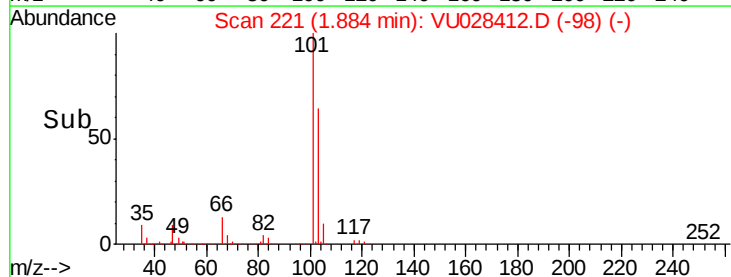
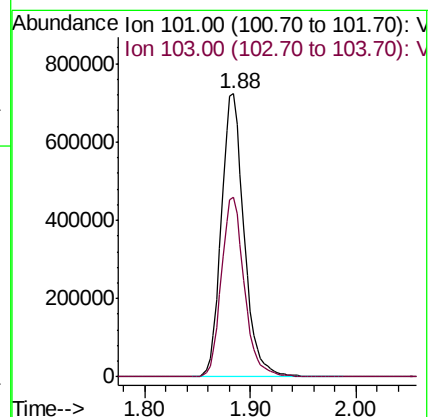
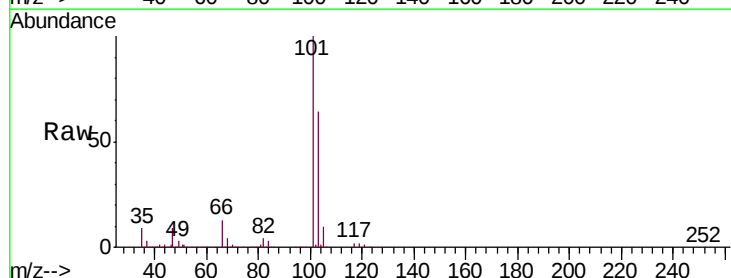
Acq: 30 Nov 2018 10:37

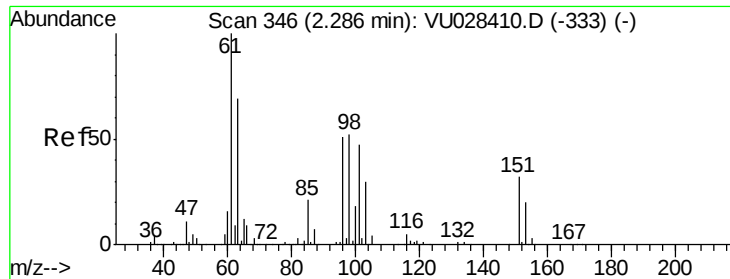
Tgt Ion: 101 Resp: 1082580

Ion Ratio Lower Upper

101 100

103 64.0 51.0 76.6





#10

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

Concen: 198.344 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

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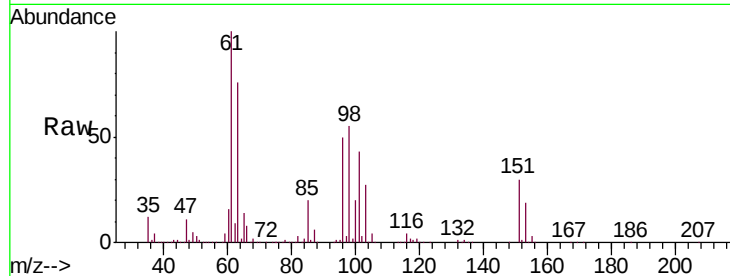
Tgt Ion: 101 Resp: 618885

Ion Ratio Lower Upper

101 100

85 45.8 36.5 54.7

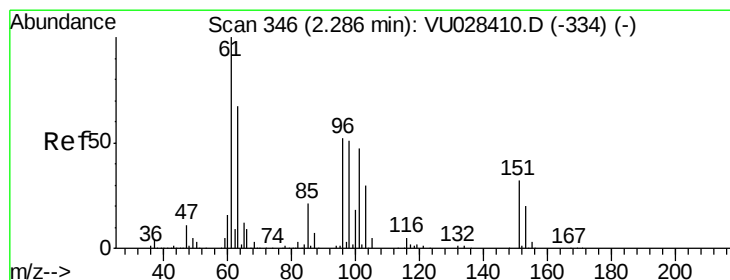
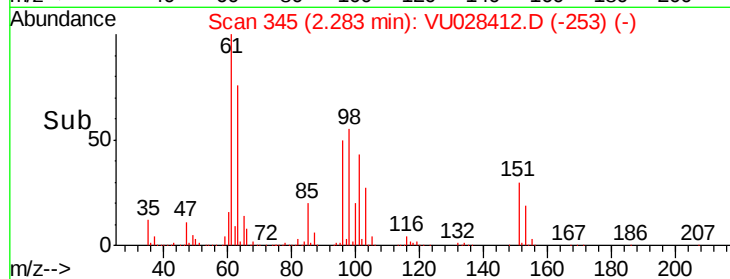
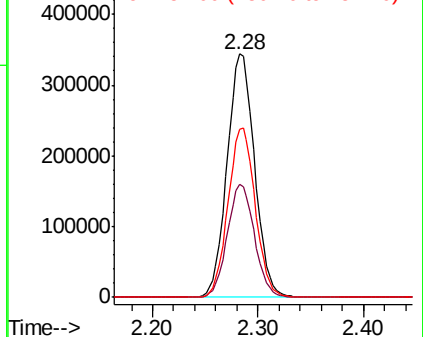
151 68.9 55.0 82.6



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: 203.966 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

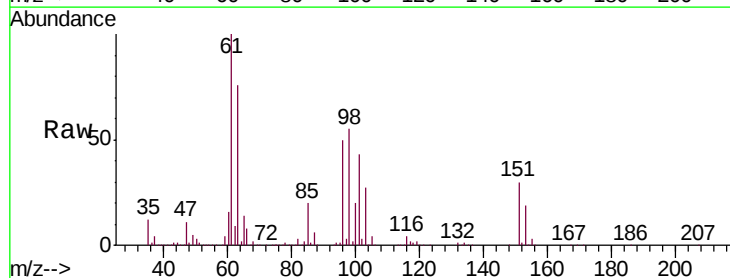
Tgt Ion: 96 Resp: 614803

Ion Ratio Lower Upper

96 100

61 199.5 136.2 252.9

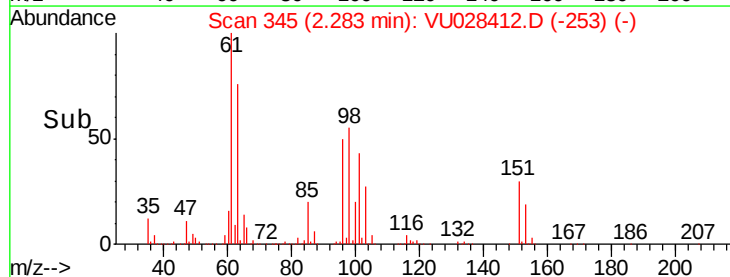
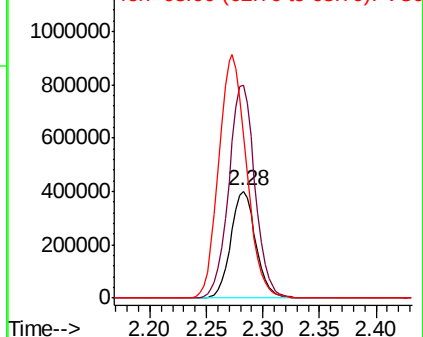
63 152.1 95.5 177.4

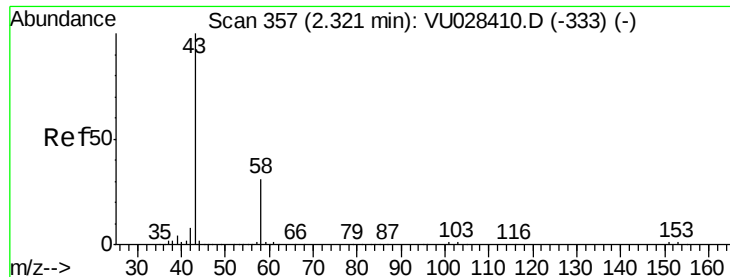


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 328.699 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

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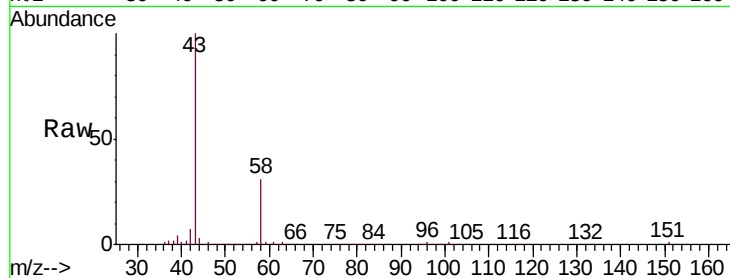
VSTD20057

Tgt Ion: 43 Resp: 1199268

Ion Ratio Lower Upper

43 100

58 30.6 0.0 63.0



Abundance Ion 43.00 (42.70 to 43.70): VU028410.D (-333) (-)

Ion 58.00 (57.70 to 58.70): VU028410.D (-333) (-)

2.32

800000

600000

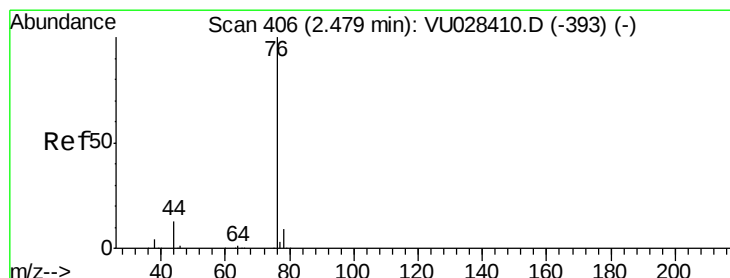
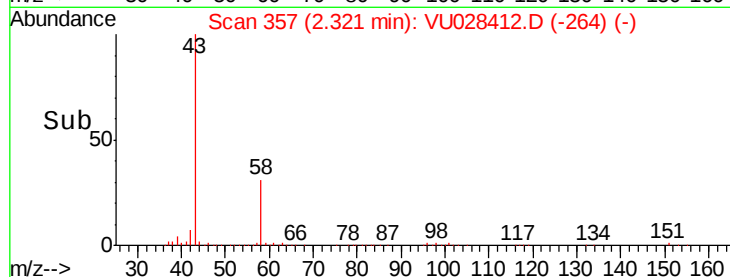
400000

200000

0

2.20 2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 202.944 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028412.D

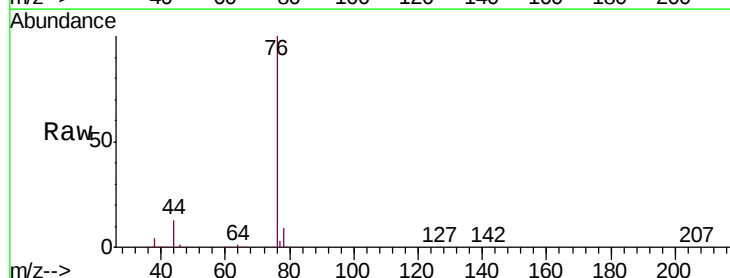
Acq: 30 Nov 2018 10:37

Tgt Ion: 76 Resp: 2315948

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU028410.D (-393) (-)

Ion 78.00 (77.70 to 78.70): VU028410.D (-393) (-)

2.48

1500000

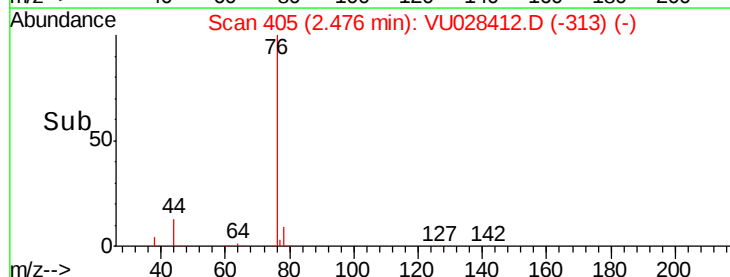
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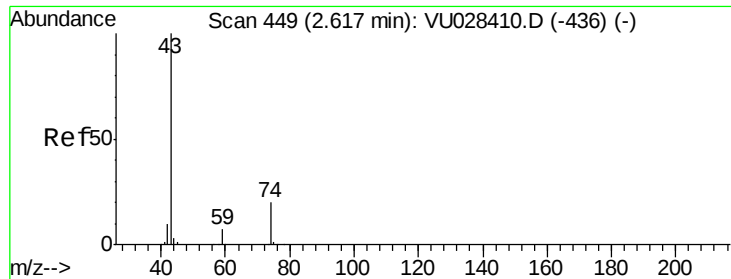
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0

2.40 2.45 2.50 2.55 2.60

Time-->

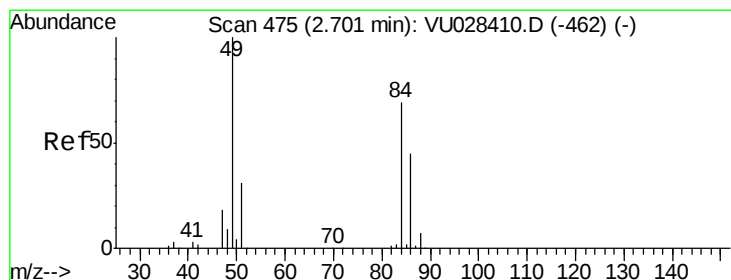
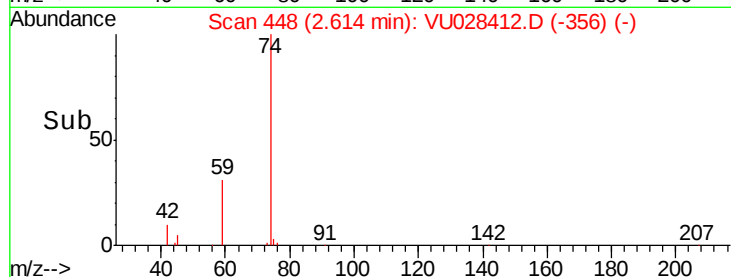
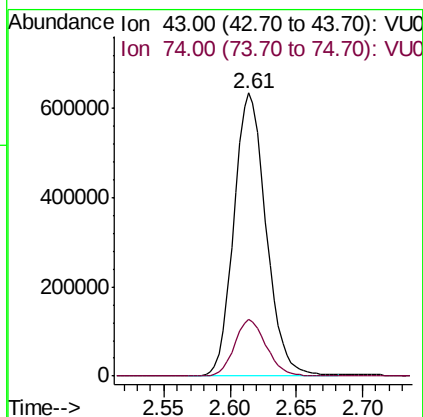
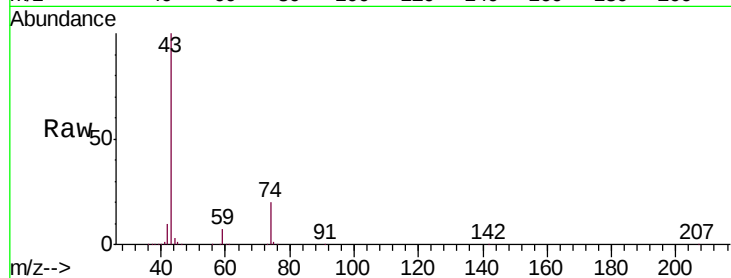




#15
Methyl Acetate
Concen: 198.146 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU028412.D
Acq: 30 Nov 2018 10:37

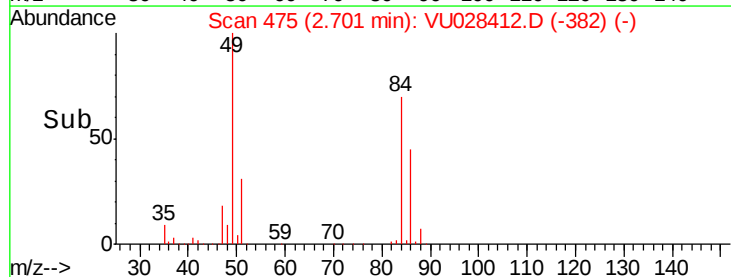
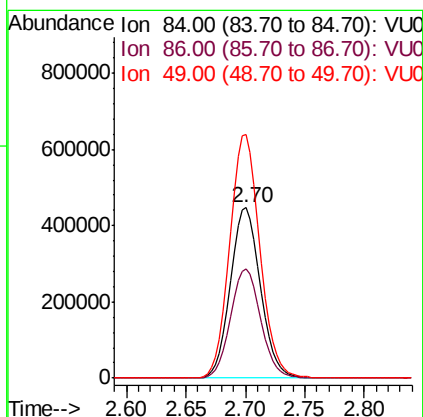
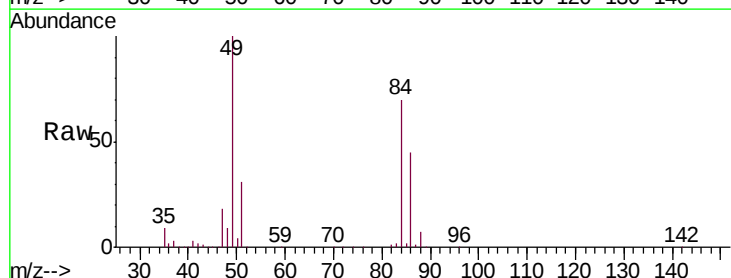
Instrument :
MSVOA_U
ClientSampleId :
VSTD20057

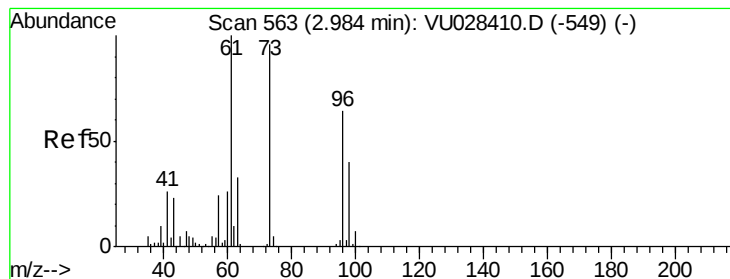
Tgt Ion: 43 Resp: 1069561
Ion Ratio Lower Upper
43 100
74 19.7 16.2 24.4



#16
Methylene chloride
Concen: 201.067 ug/L
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028412.D
Acq: 30 Nov 2018 10:37

Tgt Ion: 84 Resp: 784561
Ion Ratio Lower Upper
84 100
86 64.3 45.6 84.8
49 143.1 101.3 188.1





#17

trans-1,2-Dichloroethene

Concen: 203.088 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

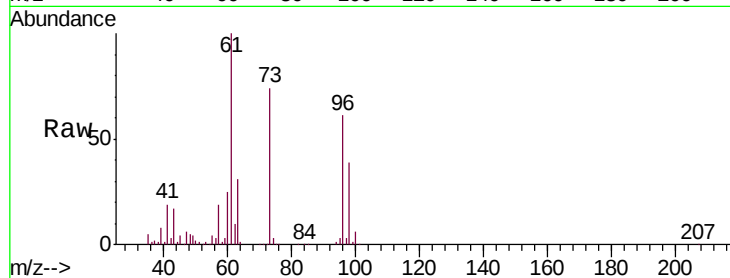
Tgt Ion: 96 Resp: 693746

Ion Ratio Lower Upper

96 100

61 163.8 109.5 203.3

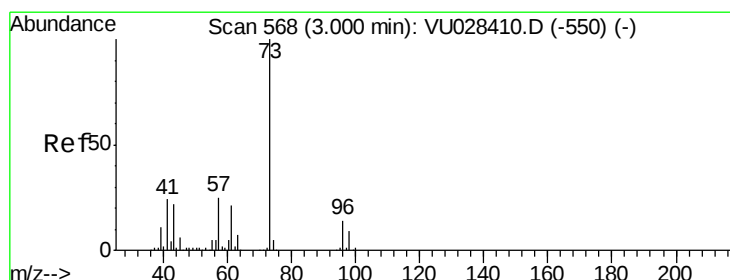
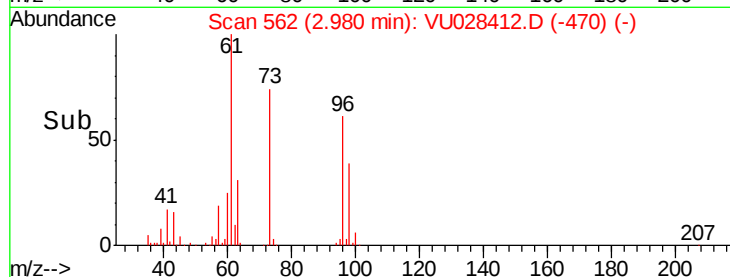
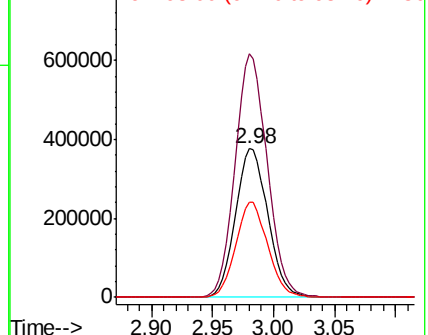
98 64.1 43.3 80.5



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 199.759 ug/L

RT: 3.00 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

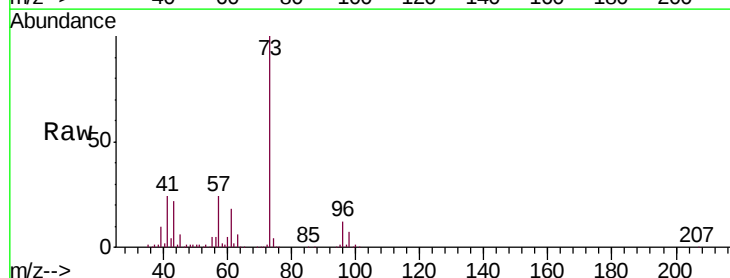
Tgt Ion: 73 Resp: 2371226

Ion Ratio Lower Upper

73 100

43 22.0 17.9 26.9

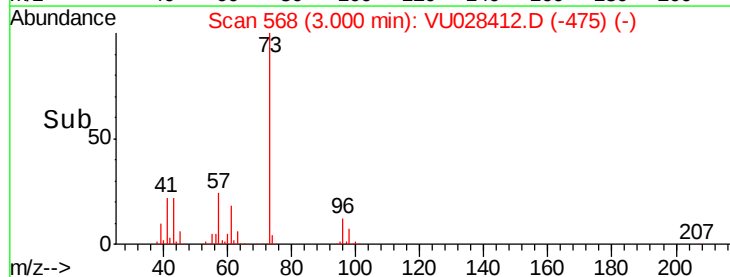
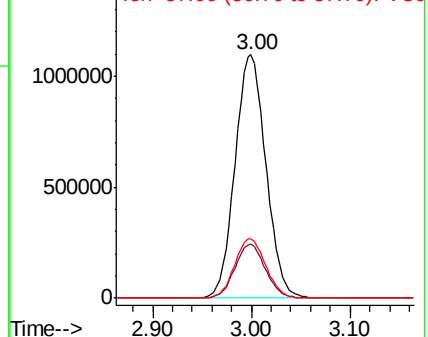
57 24.5 19.7 29.5

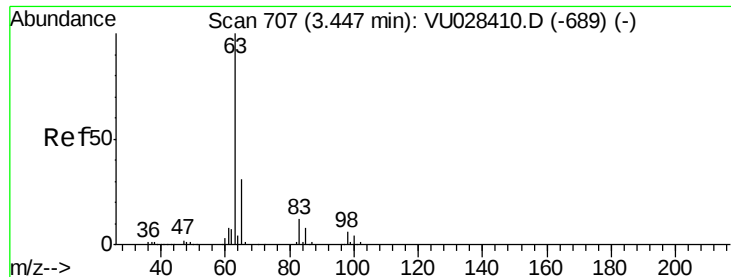


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

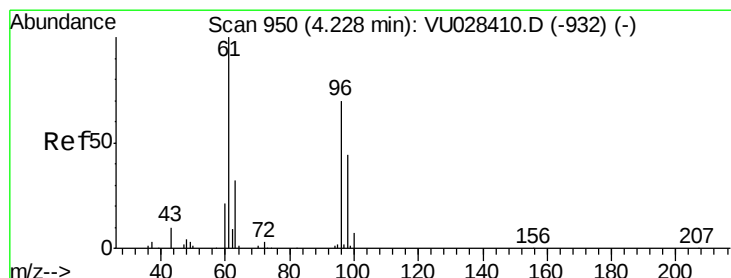
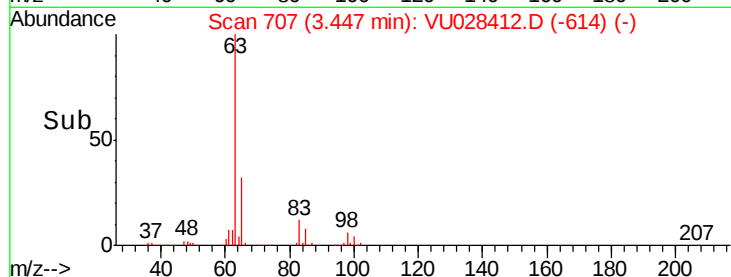
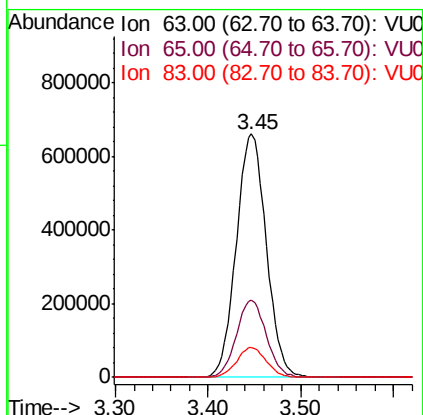
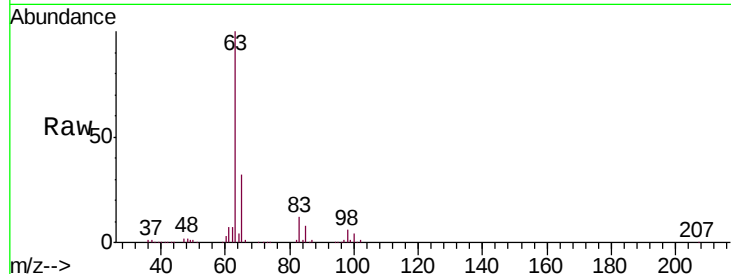




#19
 1,1-Dichloroethane
 Concen: 201.523 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

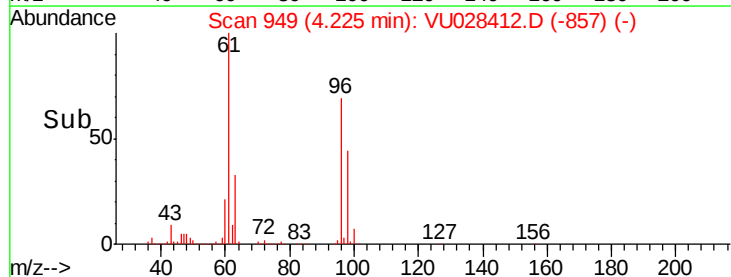
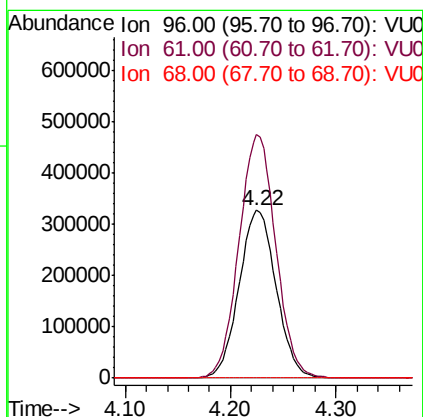
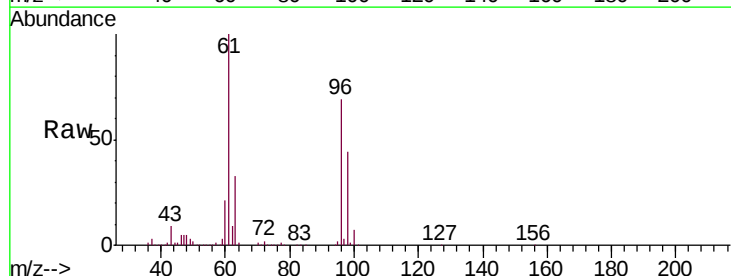
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

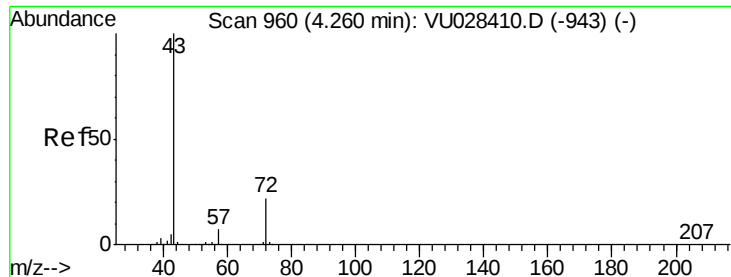
Tgt Ion: 63 Resp: 1487048
 Ion Ratio Lower Upper
 63 100
 65 31.7 21.6 40.0
 83 12.4 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 203.847 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

Tgt Ion: 96 Resp: 800875
 Ion Ratio Lower Upper
 96 100
 61 144.9 99.8 185.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 373.346 ug/L

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

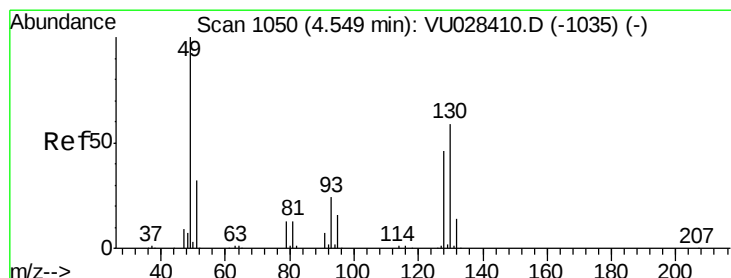
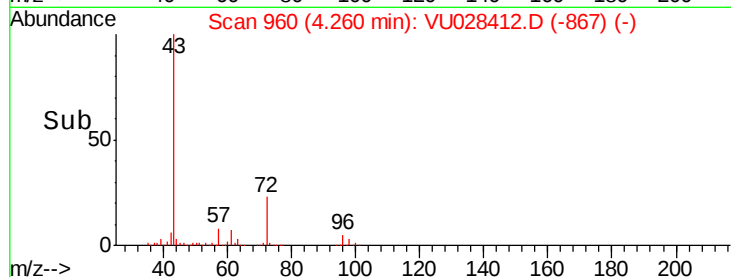
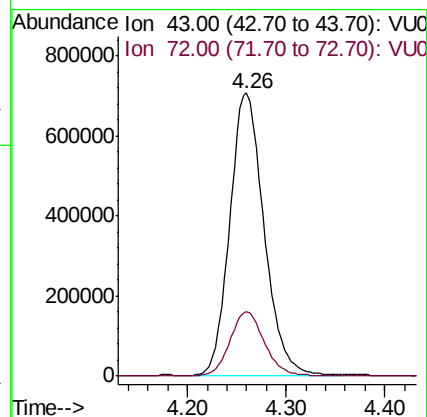
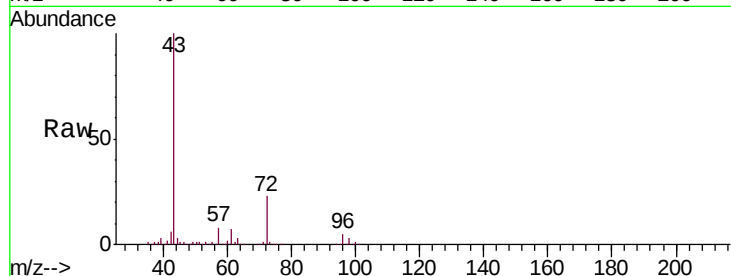
VSTD20057

Tgt Ion: 43 Resp: 1705224

Ion Ratio Lower Upper

43 100

72 23.3 11.3 33.9



#23

Bromochloromethane

Concen: 197.553 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Tgt Ion: 128 Resp: 339543

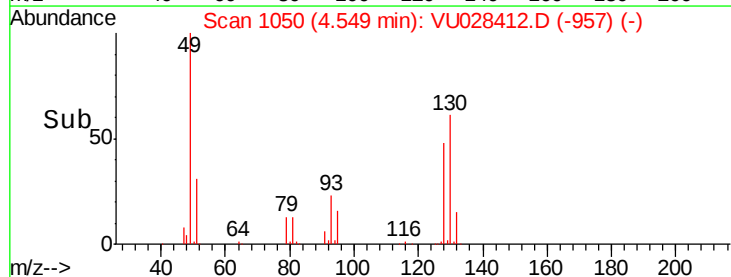
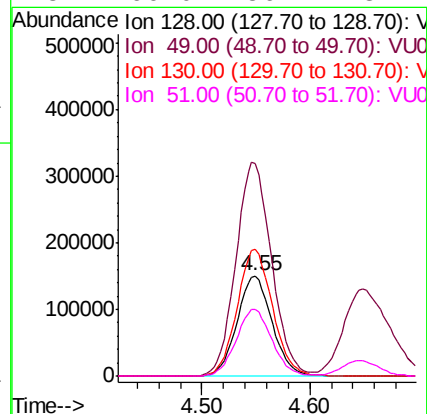
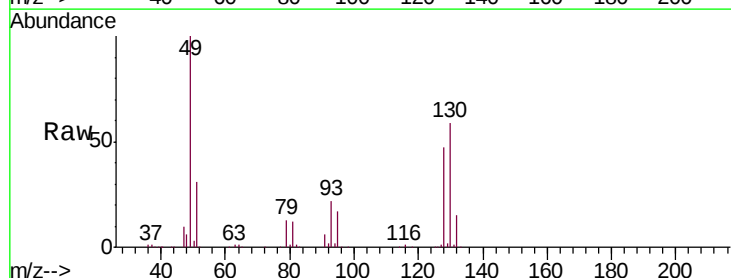
Ion Ratio Lower Upper

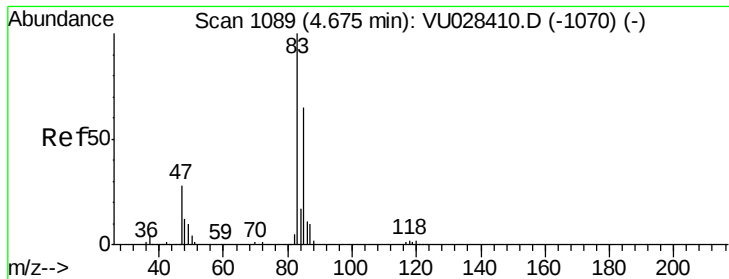
128 100

49 211.6 152.5 283.3

130 125.8 89.8 166.8

51 66.0 56.2 84.2





#25

Chloroform

Concen: 201.073 ug/L

RT: 4.67 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

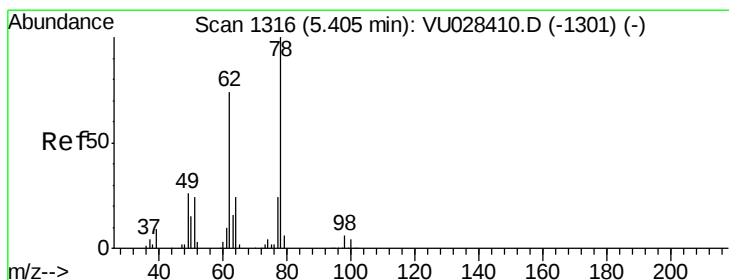
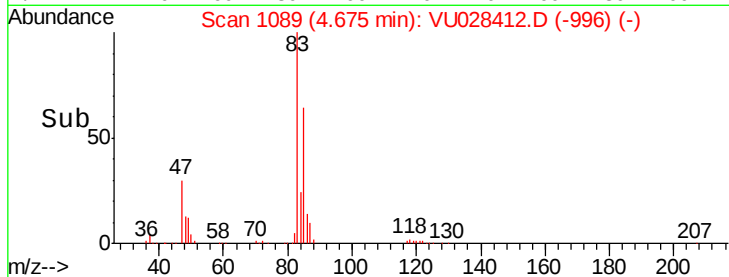
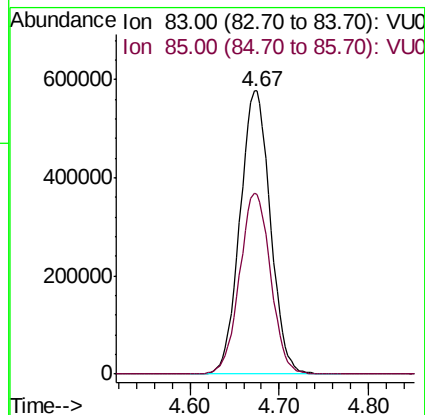
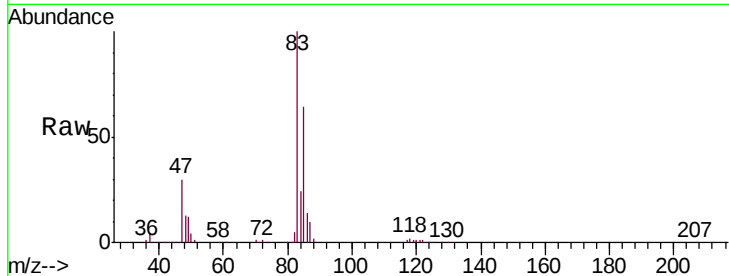
VSTD20057

Tgt Ion: 83 Resp: 1358487

Ion Ratio Lower Upper

83 100

85 63.5 45.7 84.9



#27

1,2-Dichloroethane

Concen: 199.984 ug/L

RT: 5.40 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VU028412.D

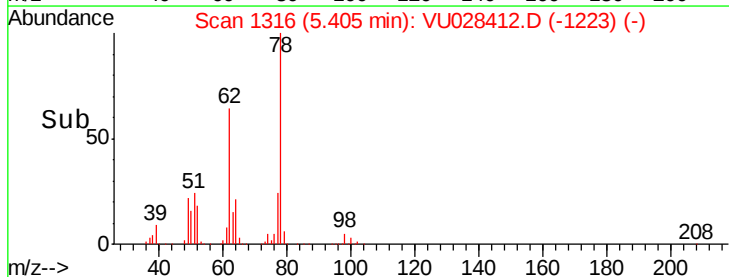
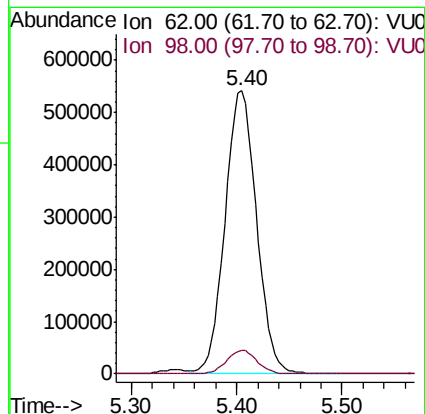
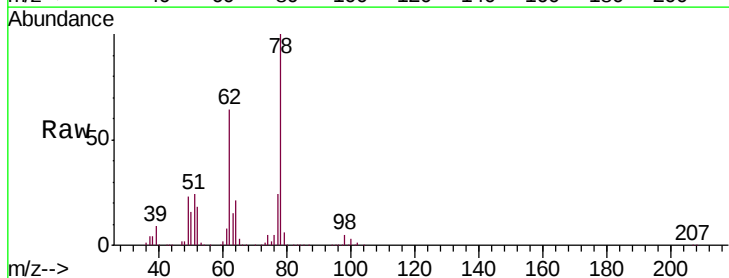
Acq: 30 Nov 2018 10:37

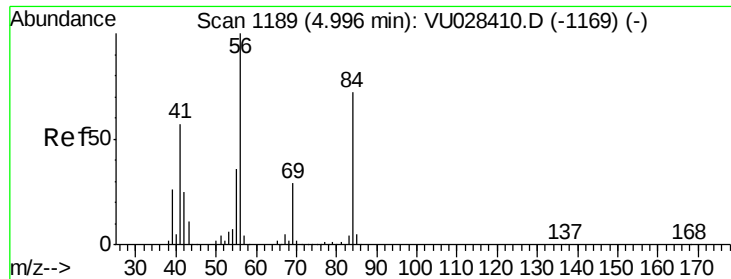
Tgt Ion: 62 Resp: 1118517

Ion Ratio Lower Upper

62 100

98 8.3 6.7 10.1

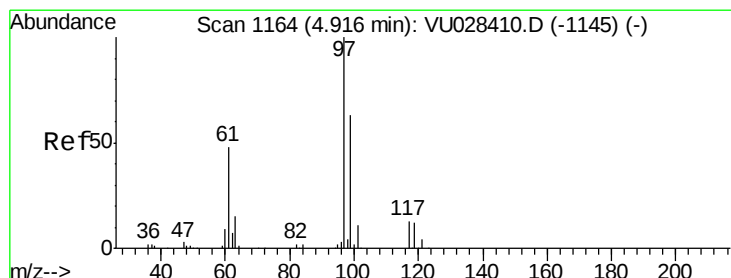
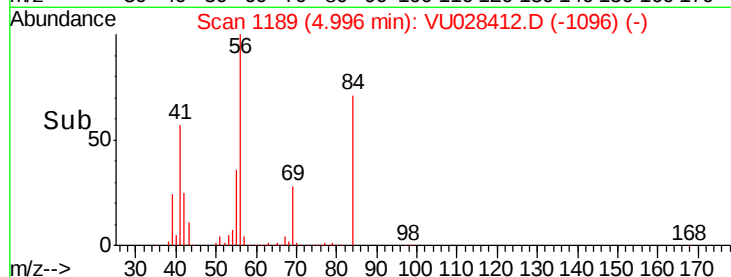
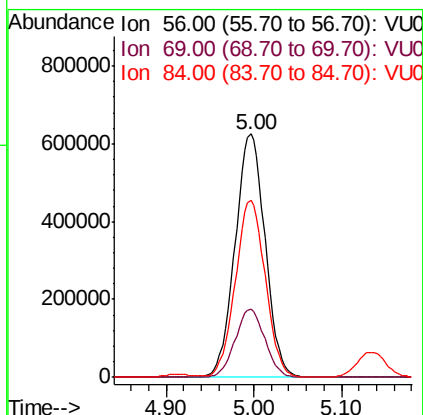
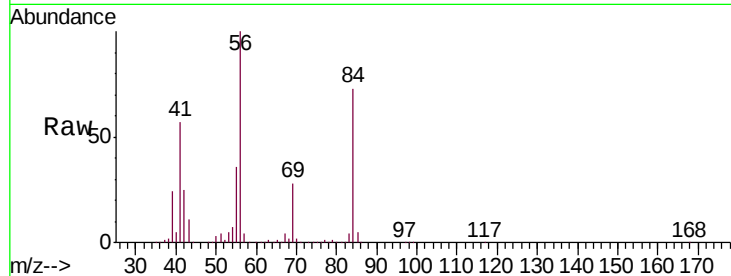




#29
Cyclohexane
Concen: 195.673 ug/L
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028412.D
Acq: 30 Nov 2018 10:37

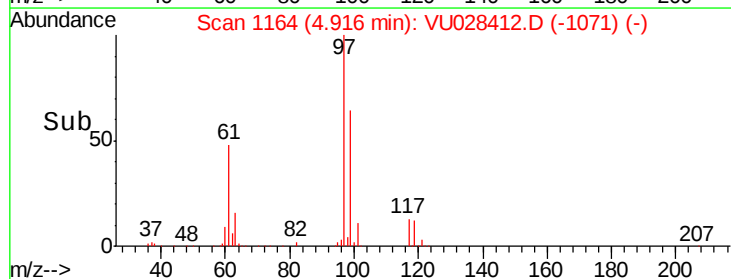
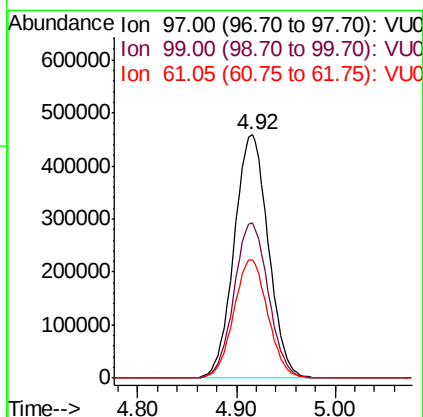
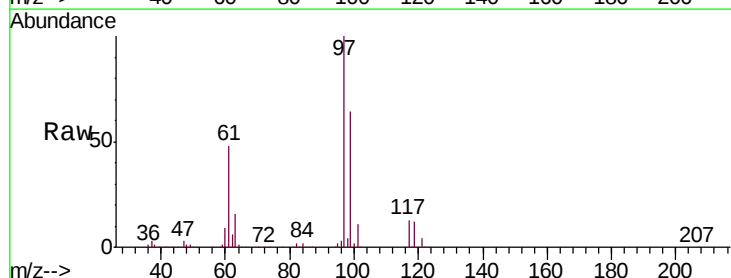
Instrument :
MSVOA_U
ClientSampleId :
VSTD20057

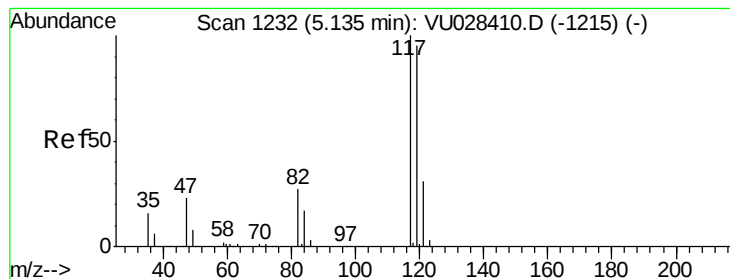
Tgt Ion: 56 Resp: 1489047
Ion Ratio Lower Upper
56 100
69 27.8 22.5 33.7
84 72.5 56.6 85.0



#30
1,1,1-Trichloroethane
Concen: 198.672 ug/L
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU028412.D
Acq: 30 Nov 2018 10:37

Tgt Ion: 97 Resp: 1102687
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.0
61 48.6 39.3 58.9





#31

Carbon tetrachloride

Concen: 199.590 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

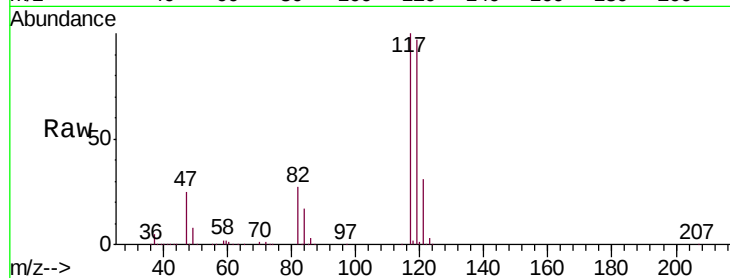
VSTD20057

Tgt Ion:117 Resp: 892253

Ion Ratio Lower Upper

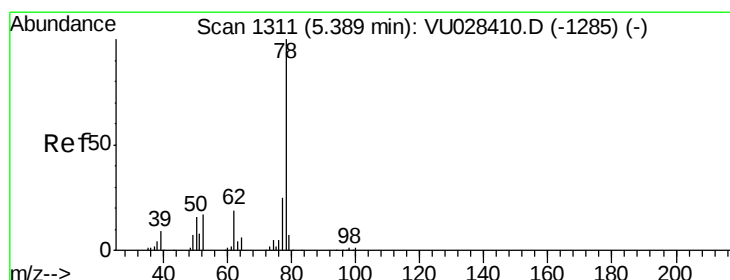
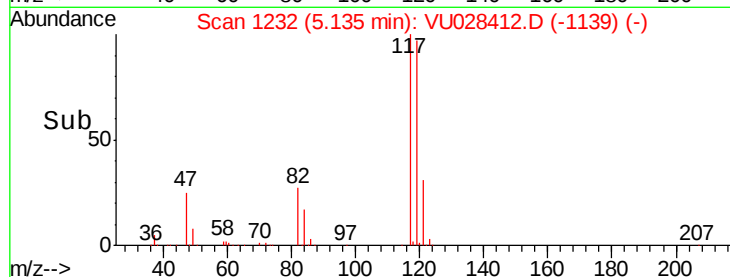
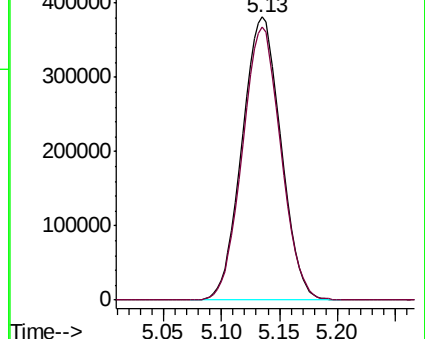
117 100

119 95.6 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 197.437 ug/L

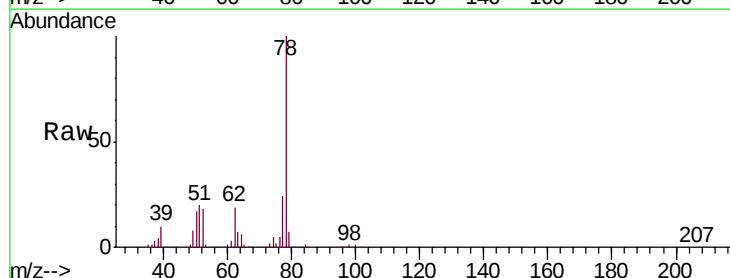
RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

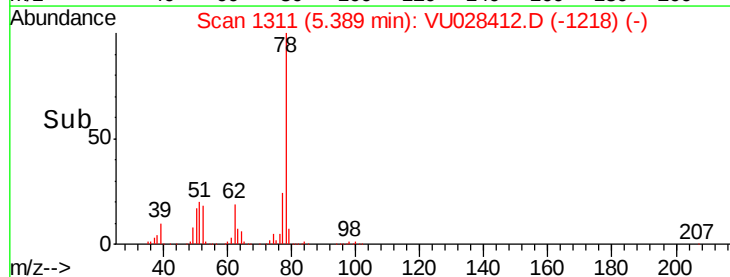
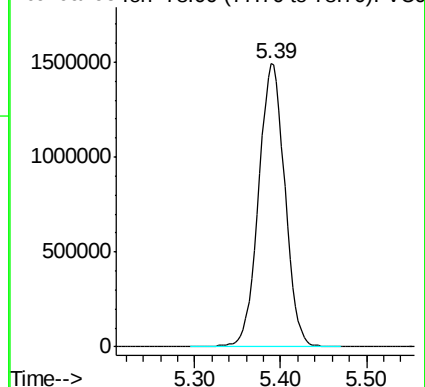
Lab File: VU028412.D

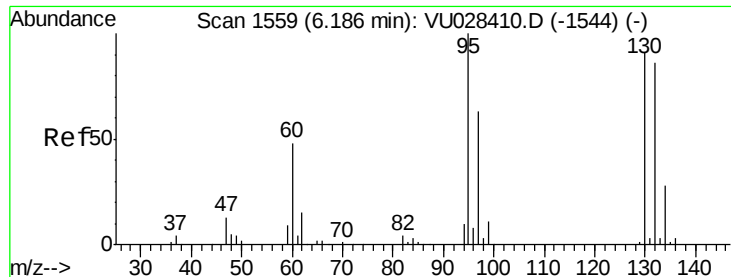
Acq: 30 Nov 2018 10:37

Tgt Ion: 78 Resp: 3180131



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 201.156 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

Tgt Ion: 95 Resp: 774728

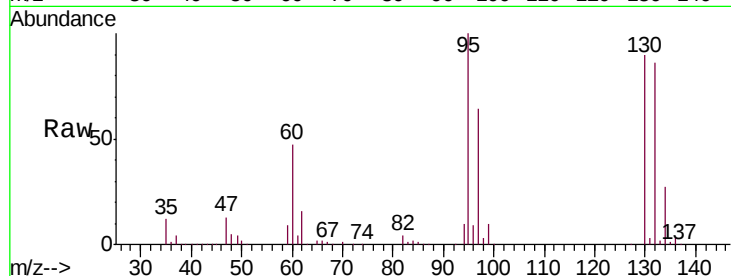
Ion Ratio Lower Upper

95 100

97 63.9 44.1 81.9

132 86.3 60.2 111.8

130 90.5 63.5 117.9

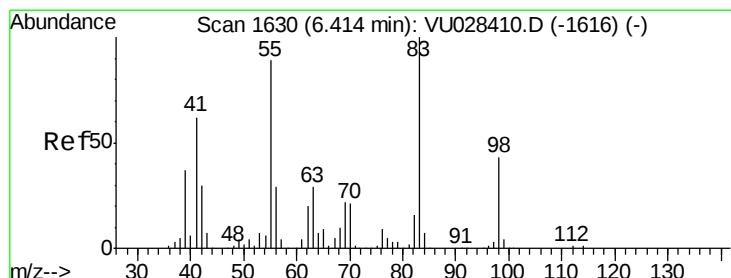
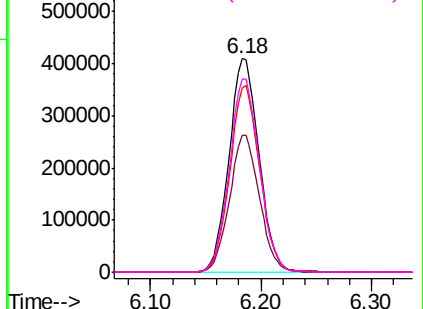
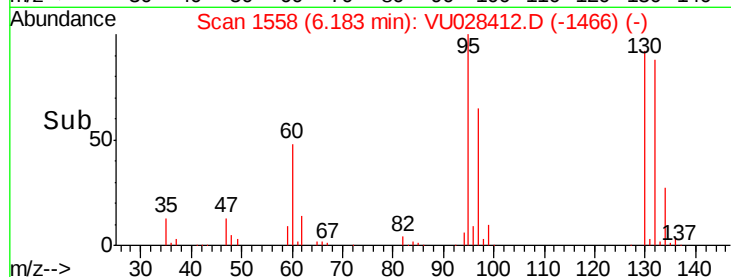


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 199.328 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

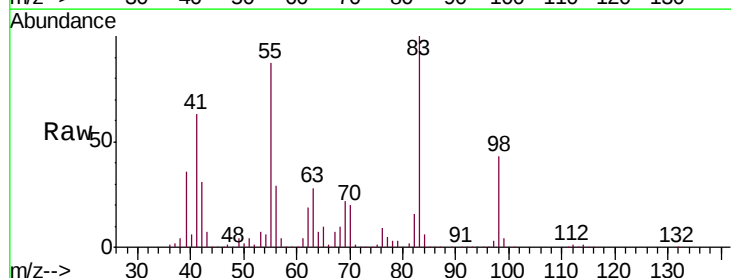
Tgt Ion: 83 Resp: 1336354

Ion Ratio Lower Upper

83 100

55 87.7 70.5 105.7

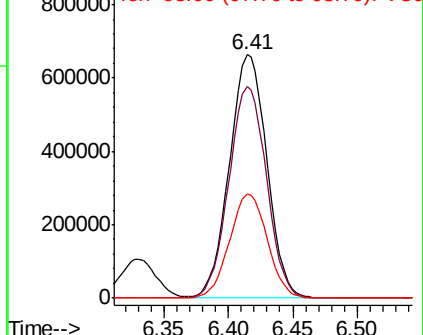
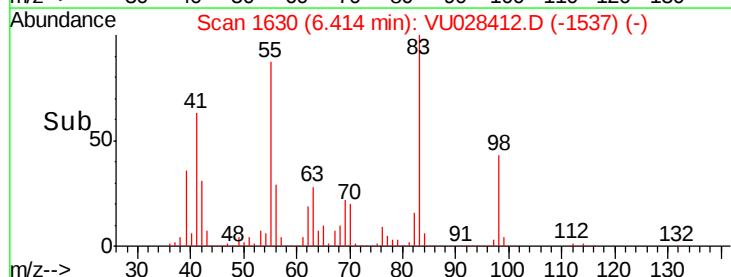
98 43.2 34.6 52.0

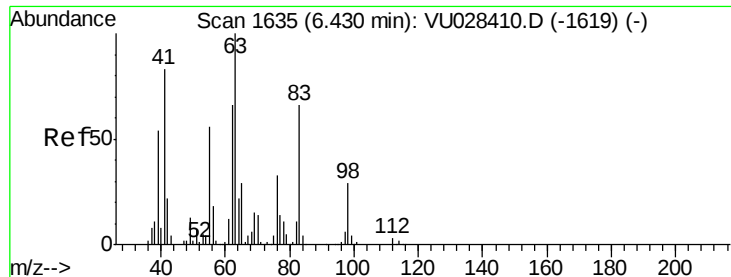


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

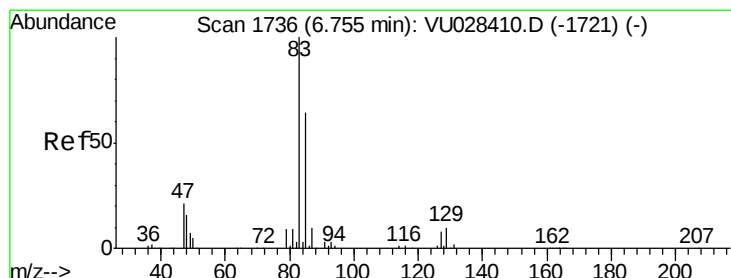
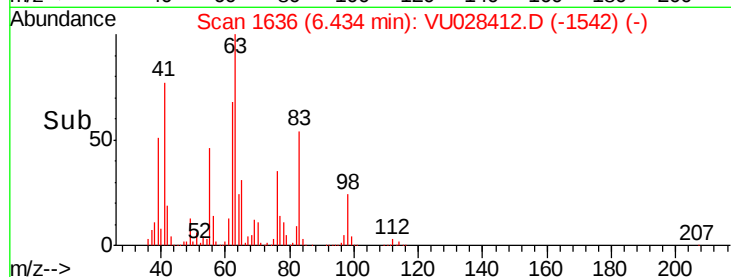
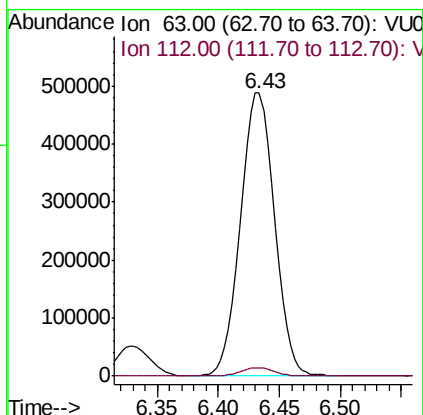
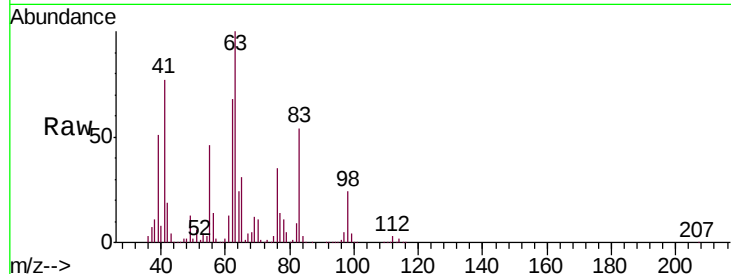




#37
 1,2-Dichloropropane
 Concen: 196.540 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

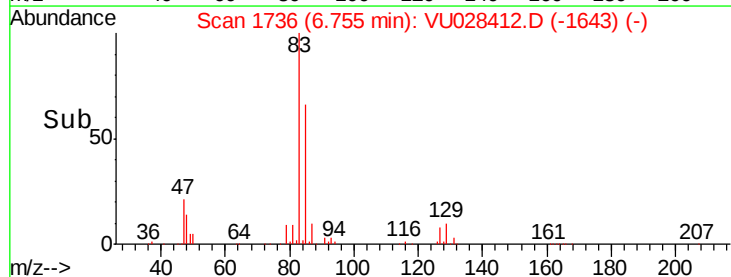
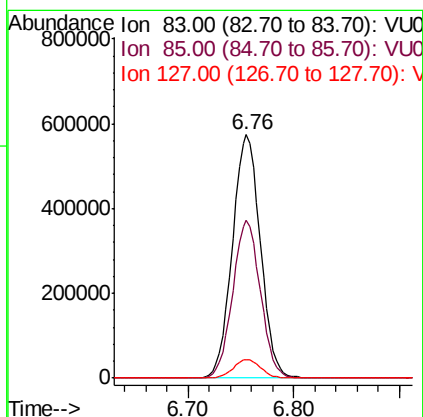
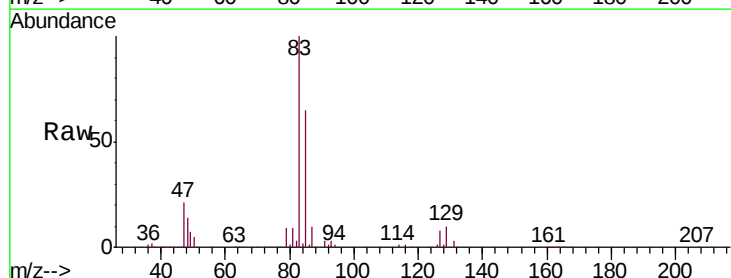
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20057

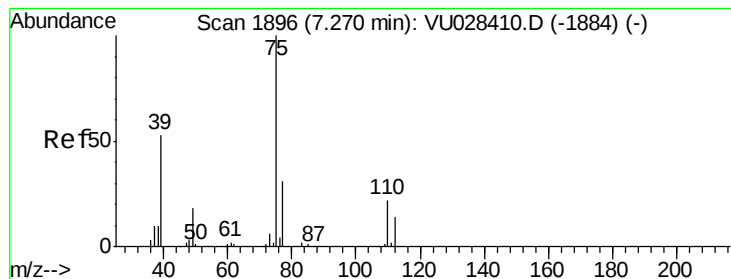
Tgt Ion: 63 Resp: 938631
 Ion Ratio Lower Upper
 63 100
 112 3.1 2.6 3.8



#38
 Bromodichloromethane
 Concen: 198.900 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

Tgt Ion: 83 Resp: 1054025
 Ion Ratio Lower Upper
 83 100
 85 64.7 44.9 83.3
 127 7.7 6.0 9.0



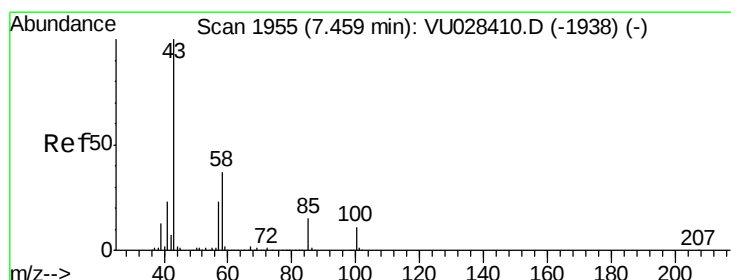
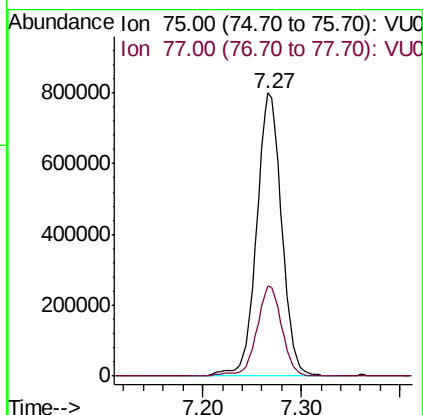
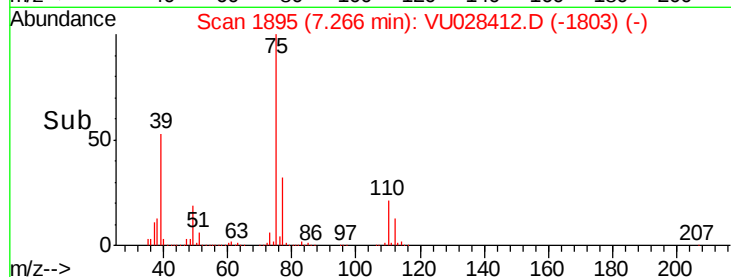
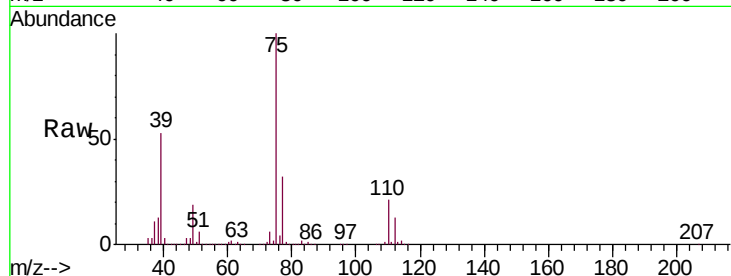


#39

cis-1,3-Dichloropropene
 Concen: 205.791 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

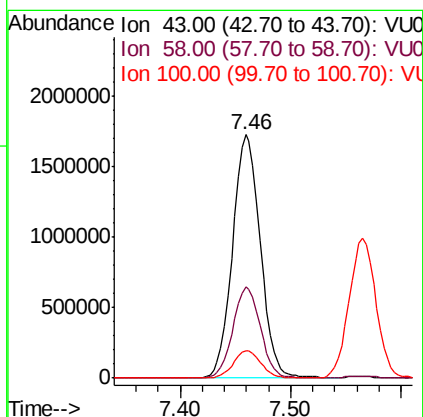
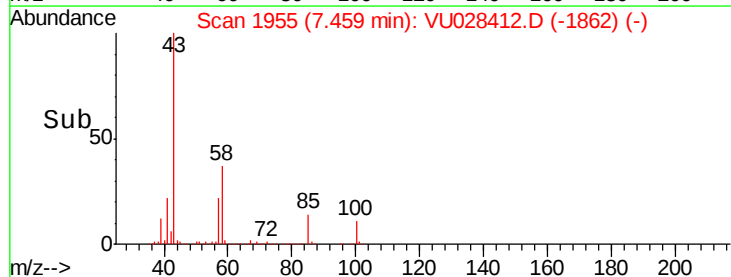
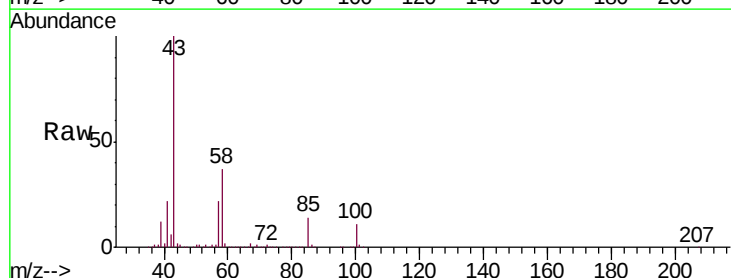
Tgt Ion: 75 Resp: 1395474
 Ion Ratio Lower Upper
 75 100
 77 31.8 21.9 40.7

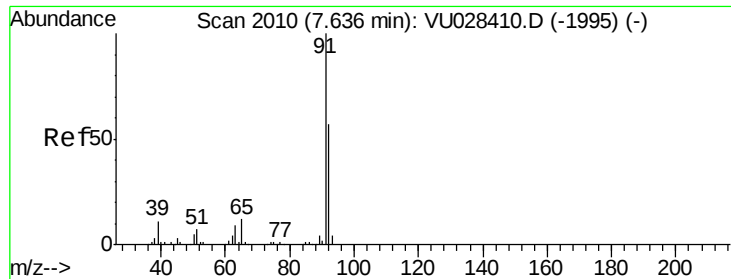


#40

4-Methyl-2-pentanone
 Concen: 398.352 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

Tgt Ion: 43 Resp: 3008686
 Ion Ratio Lower Upper
 43 100
 58 37.3 29.9 44.9
 100 11.1 8.7 13.1





#42

Toluene

Concen: 201.411 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

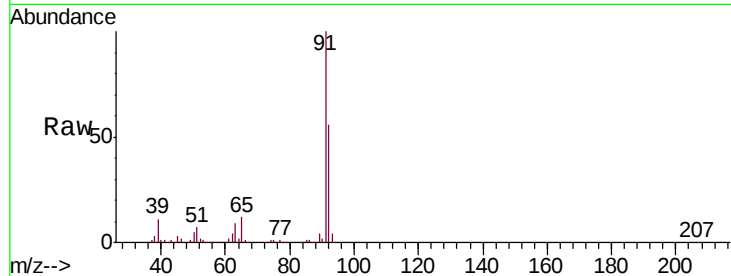
VSTD20057

Tgt Ion: 91 Resp: 3301606

Ion Ratio Lower Upper

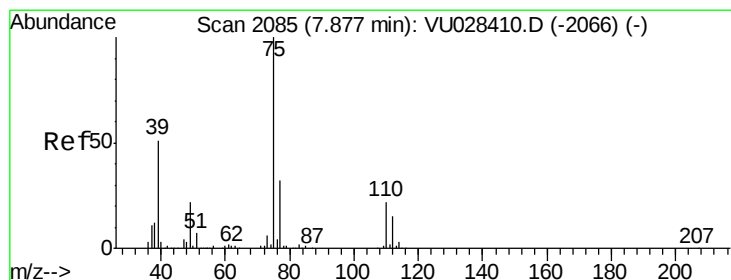
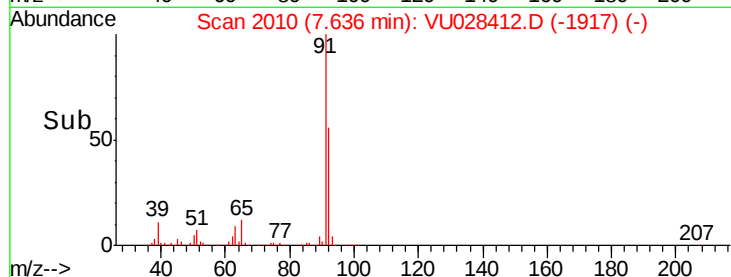
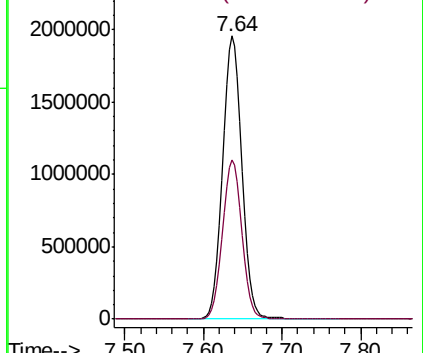
91 100

92 56.2 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 206.488 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028412.D

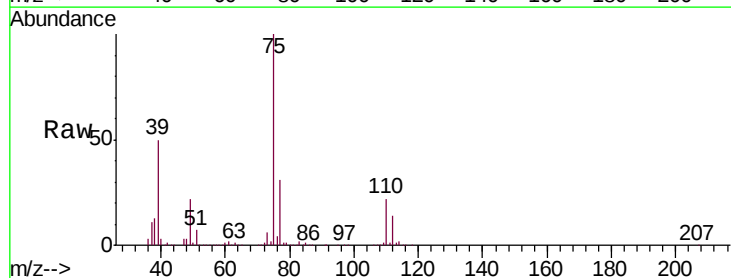
Acq: 30 Nov 2018 10:37

Tgt Ion: 75 Resp: 1283021

Ion Ratio Lower Upper

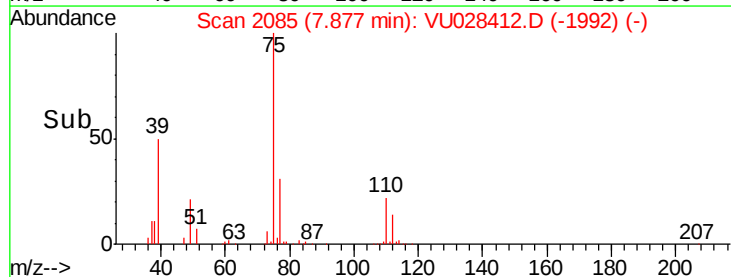
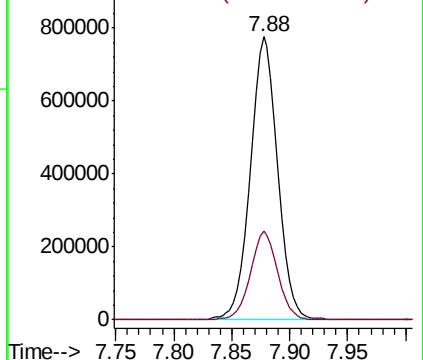
75 100

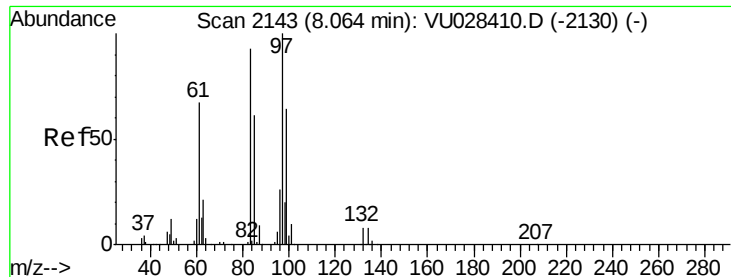
77 31.3 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

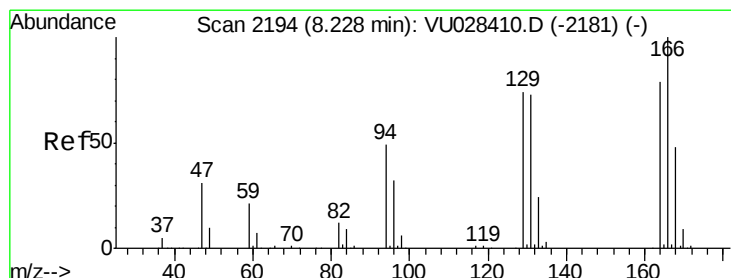
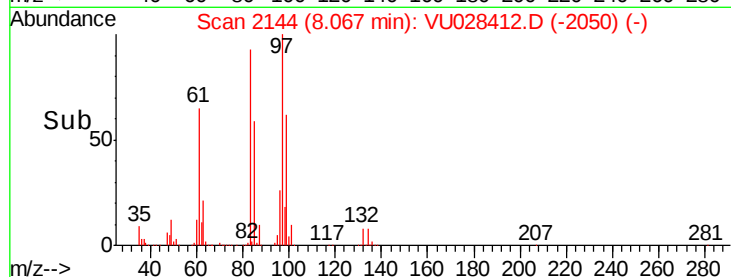
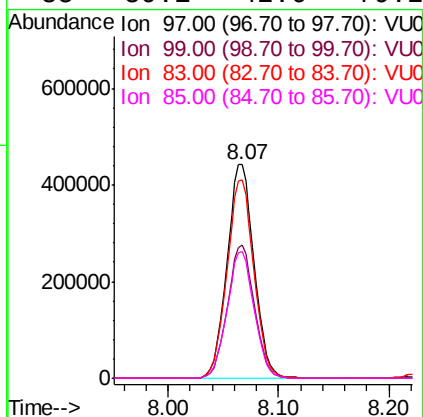
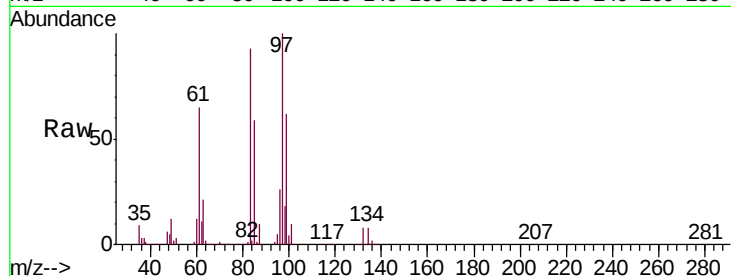




#45
 1,1,2-Trichloroethane
 Concen: 201.380 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

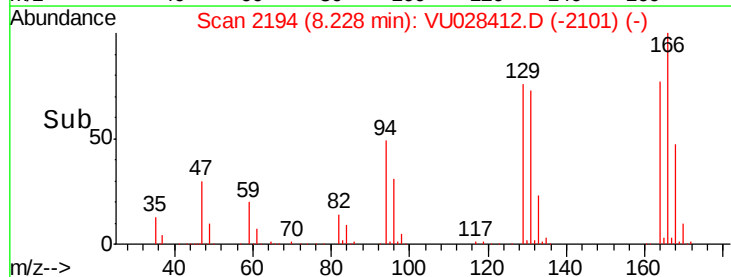
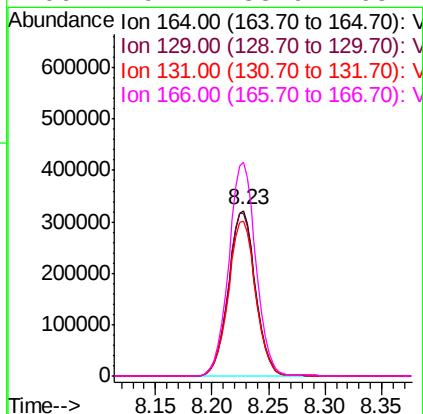
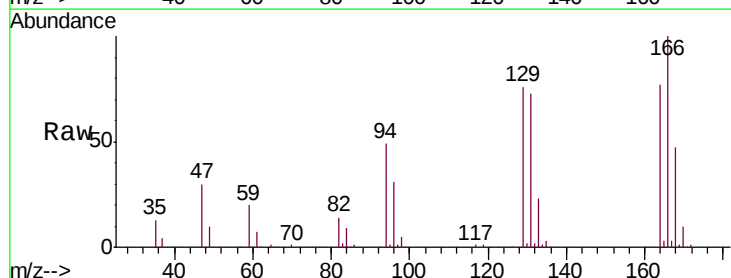
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

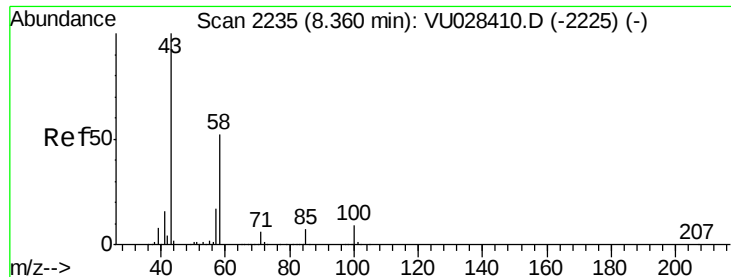
Tgt Ion:	97	Resp:	747900
Ion	Ratio	Lower	Upper
97	100		
99	62.1	44.9	83.3
83	92.7	65.1	120.9
85	59.1	42.6	79.2



#46
 Tetrachloroethene
 Concen: 197.876 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

Tgt Ion:	164	Resp:	535924
Ion	Ratio	Lower	Upper
164	100		
129	98.3	65.8	122.2
131	93.8	65.2	121.0
166	129.2	88.9	165.1

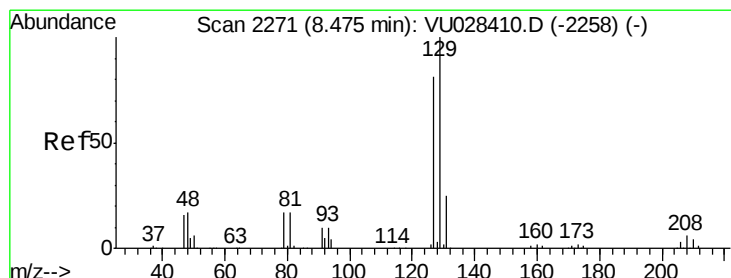
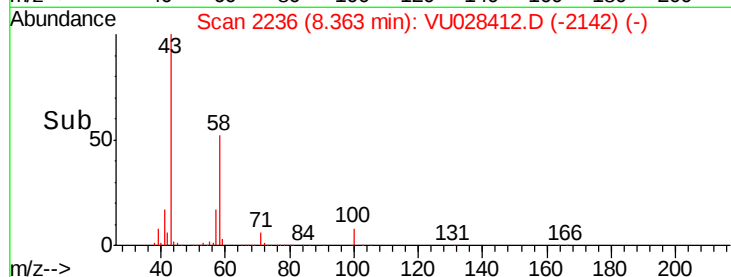
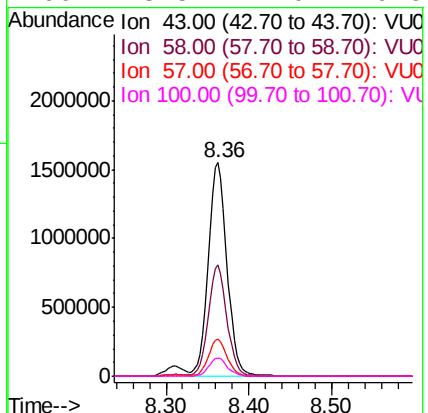
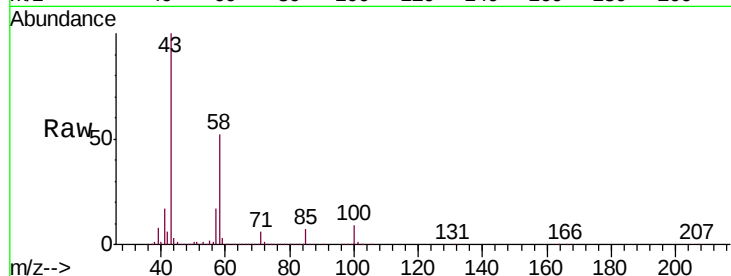




#48
2-Hexanone
Concen: 389.018 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028412.D
Acq: 30 Nov 2018 10:37

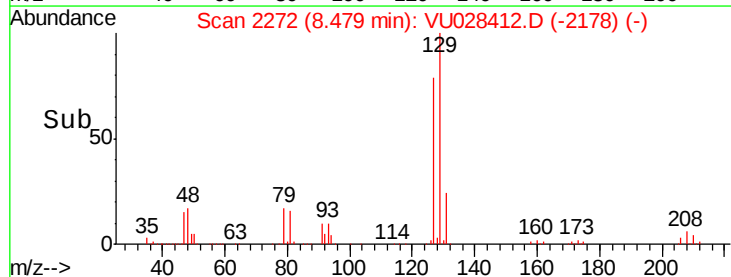
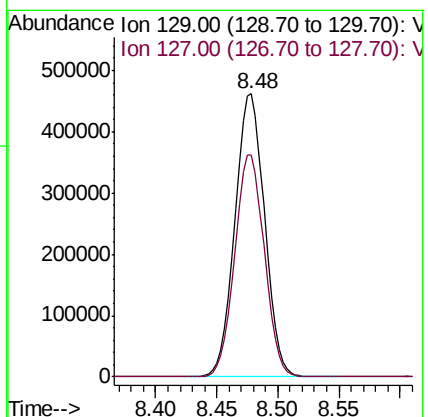
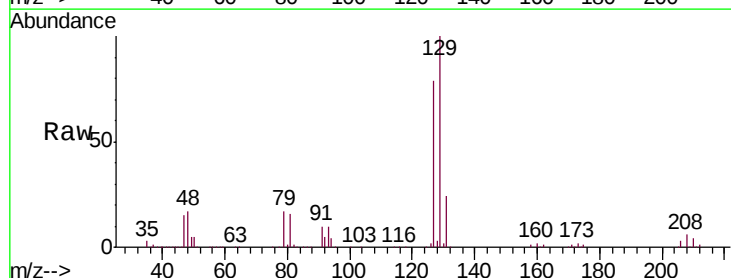
Instrument :
MSVOA_U
ClientSampleId :
VSTD20057

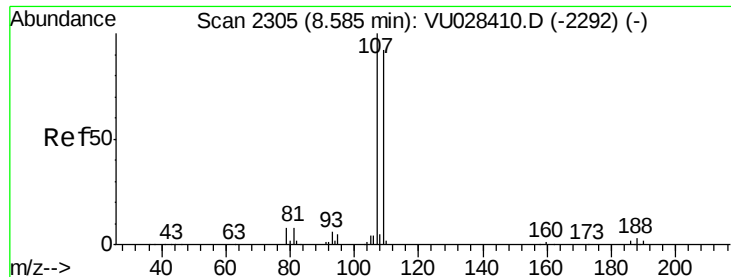
Tgt Ion: 43 Resp: 2468564
Ion Ratio Lower Upper
43 100
58 51.9 41.4 62.0
57 17.3 14.0 21.0
100 8.5 7.0 10.6



#49
Dibromochloromethane
Concen: 204.850 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU028412.D
Acq: 30 Nov 2018 10:37

Tgt Ion: 129 Resp: 778211
Ion Ratio Lower Upper
129 100
127 78.5 56.8 105.4

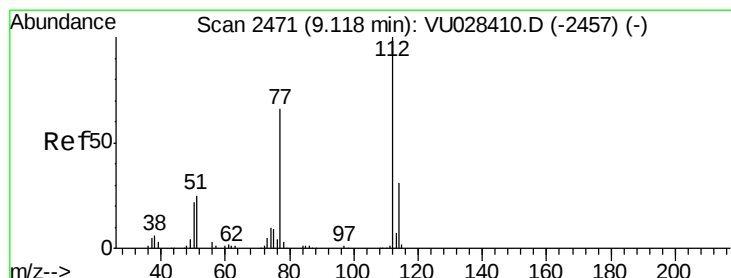
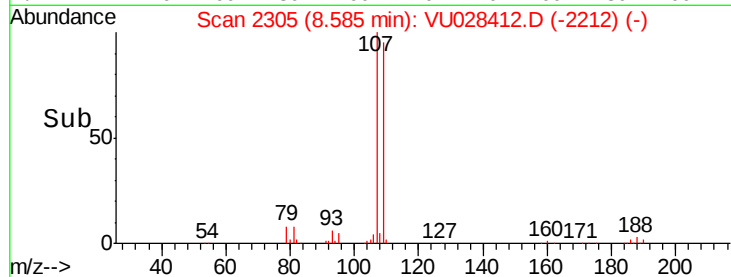
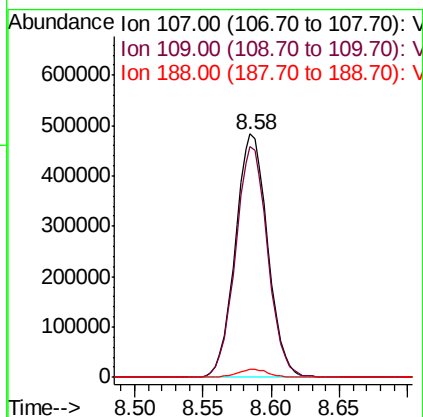
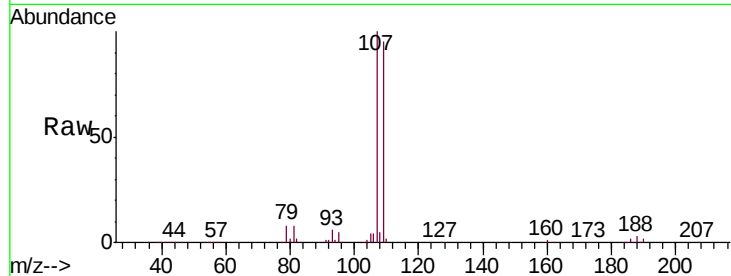




#50
1,2-Dibromoethane
Concen: 199.294 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VU028412.D
Acq: 30 Nov 2018 10:37

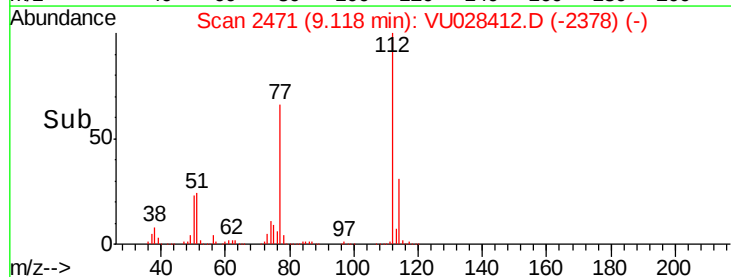
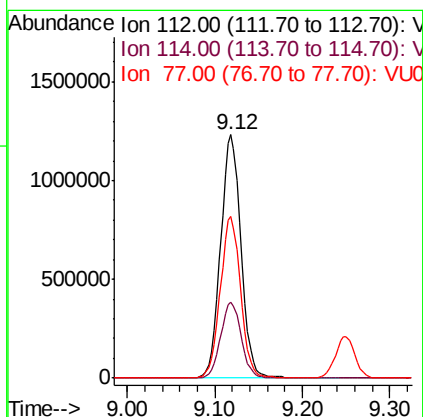
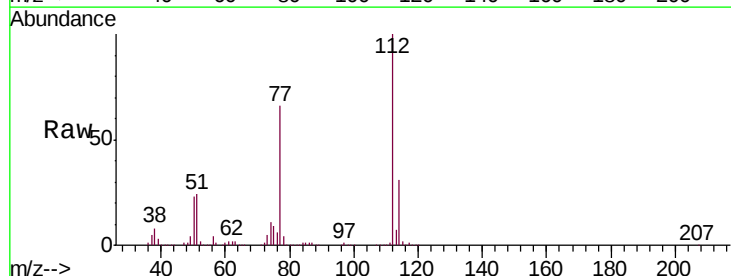
Instrument :
MSVOA_U
ClientSampleId :
VSTD20057

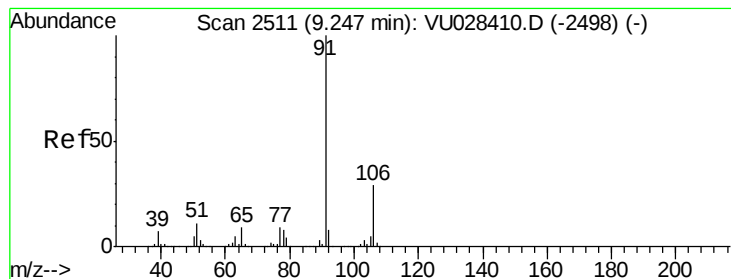
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.0	64.5	119.7
188	3.1	2.6	3.8



#51
Chlorobenzene
Concen: 203.513 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028412.D
Acq: 30 Nov 2018 10:37

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	21.6	40.0
77	66.3	53.0	79.6





#52

Ethylbenzene

Concen: 205.645 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

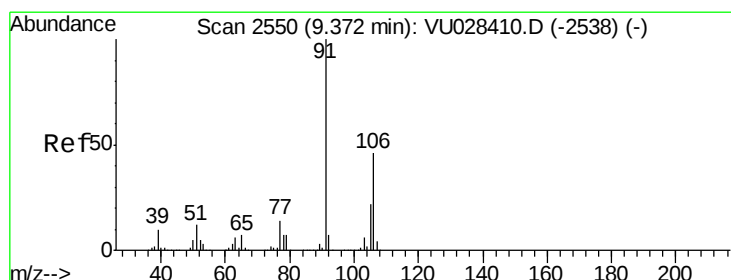
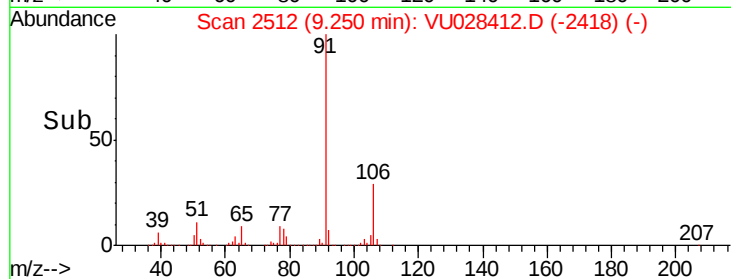
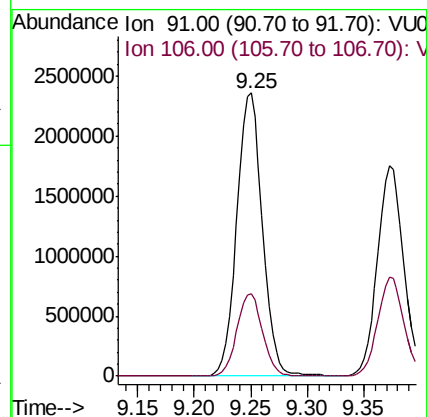
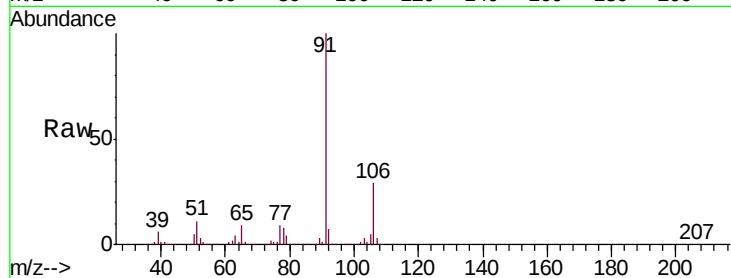
VSTD20057

Tgt Ion: 91 Resp: 3723729

Ion Ratio Lower Upper

91 100

106 29.2 20.2 37.6



#53

m,p-Xylene

Concen: 205.837 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028412.D

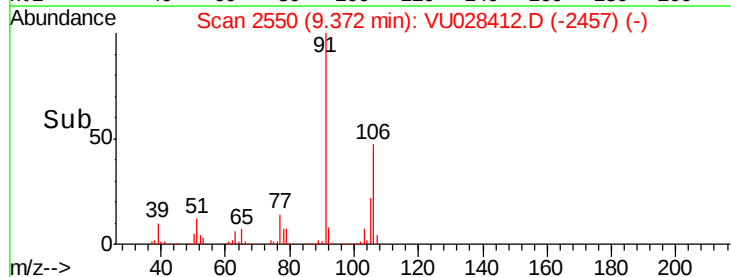
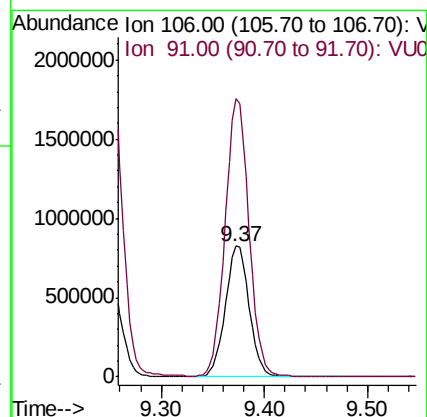
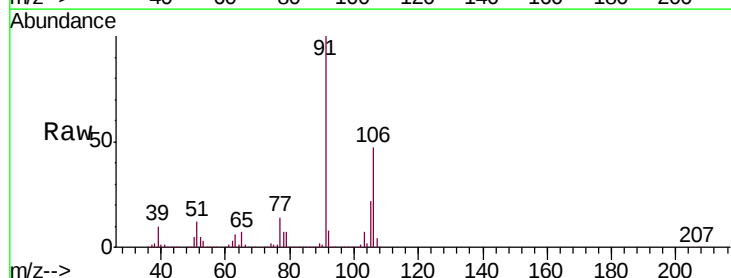
Acq: 30 Nov 2018 10:37

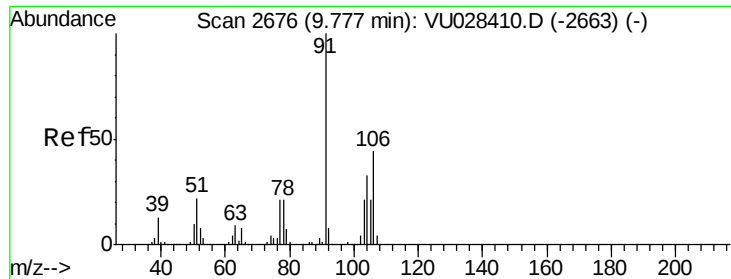
Tgt Ion: 106 Resp: 1329371

Ion Ratio Lower Upper

106 100

91 213.0 152.9 283.9





#54

o-xylene

Concen: 206.347 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

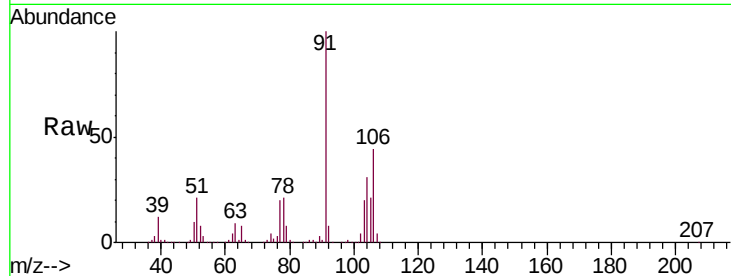
VSTD20057

Tgt Ion:106 Resp: 1319973

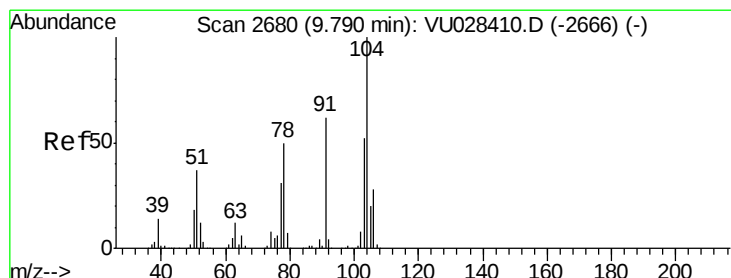
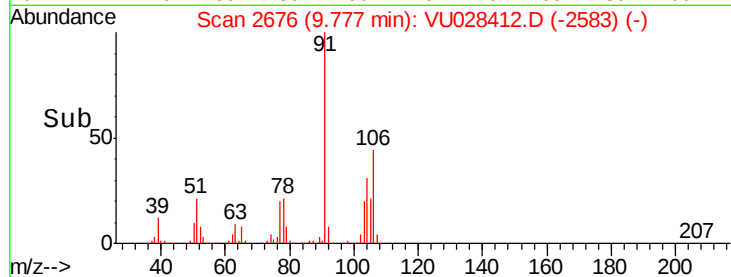
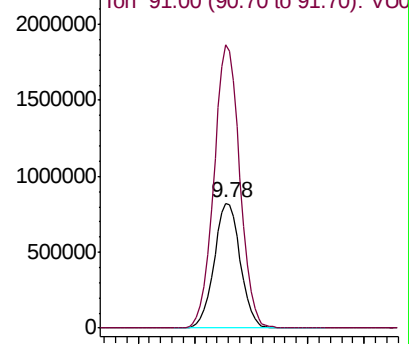
Ion Ratio Lower Upper

106 100

91 226.5 158.4 294.2



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 210.686 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VU028412.D

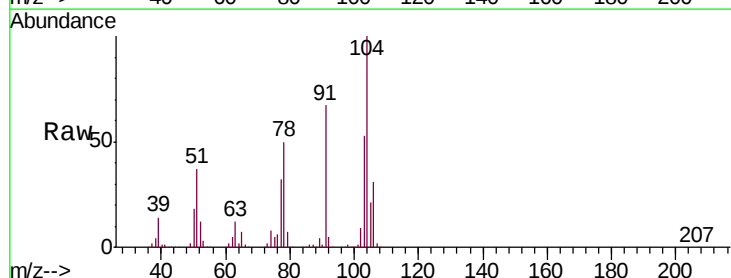
Acq: 30 Nov 2018 10:37

Tgt Ion:104 Resp: 2309068

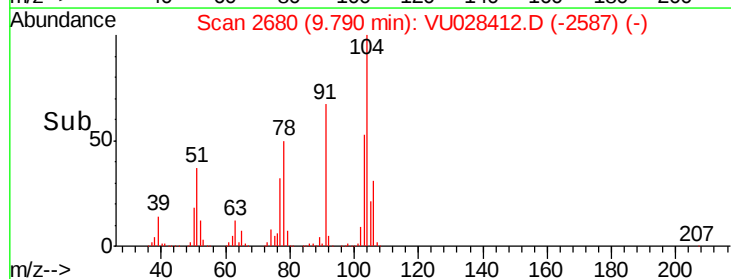
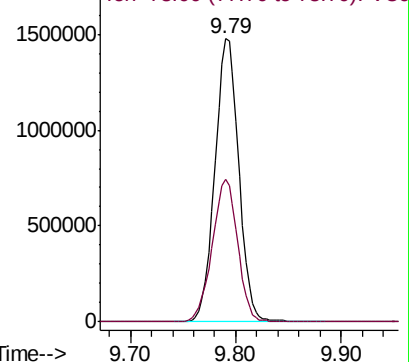
Ion Ratio Lower Upper

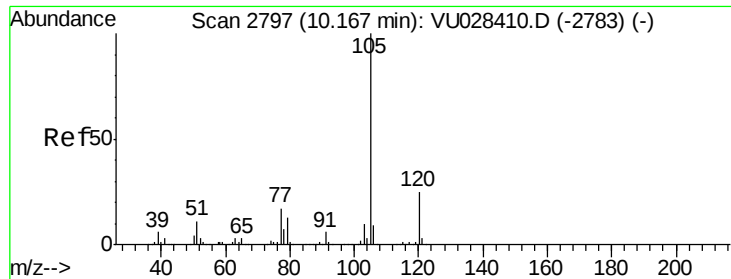
104 100

78 50.5 35.0 65.0



Abundance Ion 104.00 (103.70 to 104.70): V





#56

Isopropylbenzene

Concen: 206.079 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

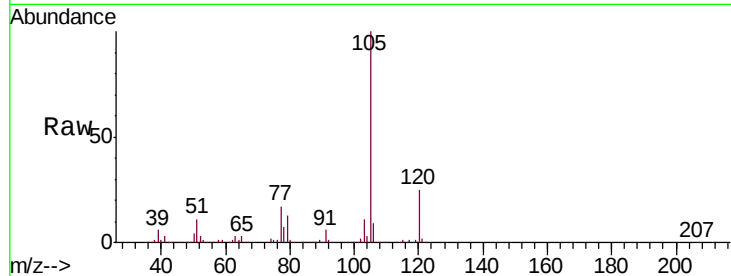
Tgt Ion:105 Resp: 3477666

Ion Ratio Lower Upper

105 100

120 25.3 20.1 30.1

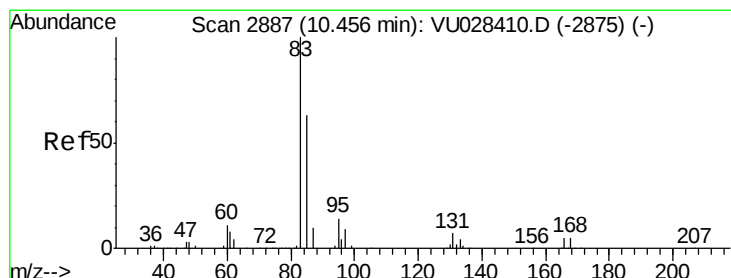
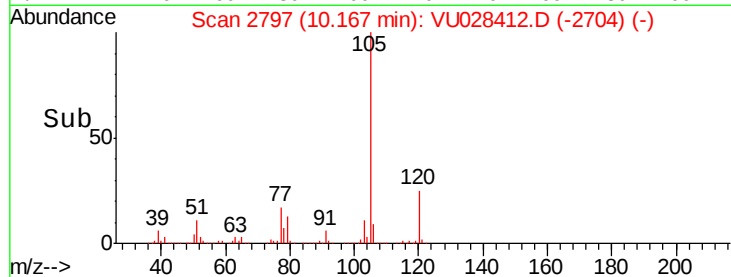
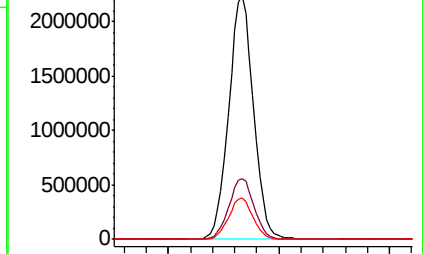
77 16.8 13.4 20.0



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 203.815 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

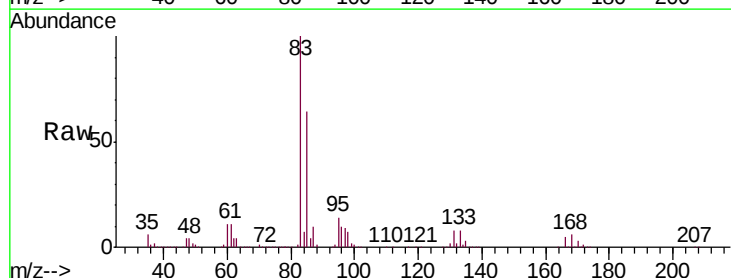
Tgt Ion: 83 Resp: 1411996

Ion Ratio Lower Upper

83 100

85 63.7 44.7 83.1

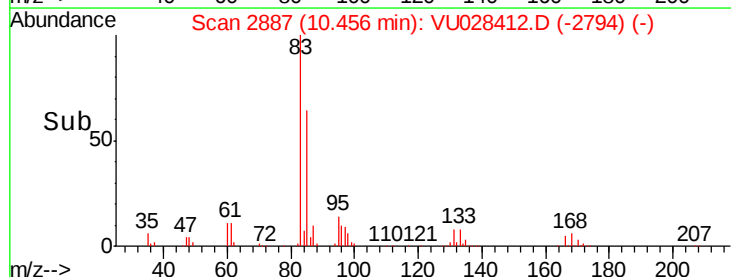
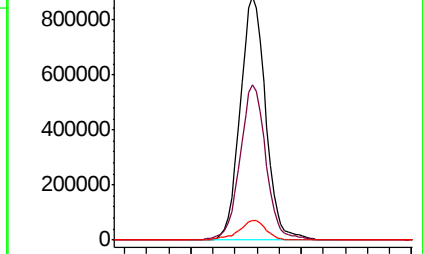
131 8.1 6.5 9.7

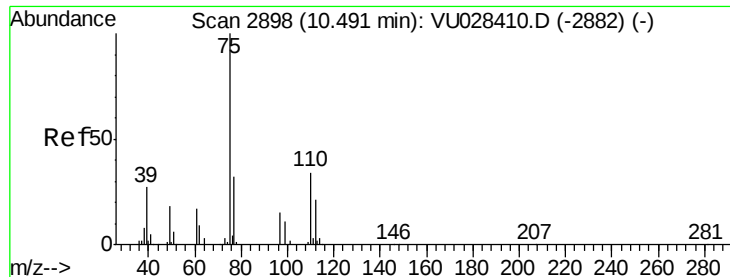


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 200.776 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

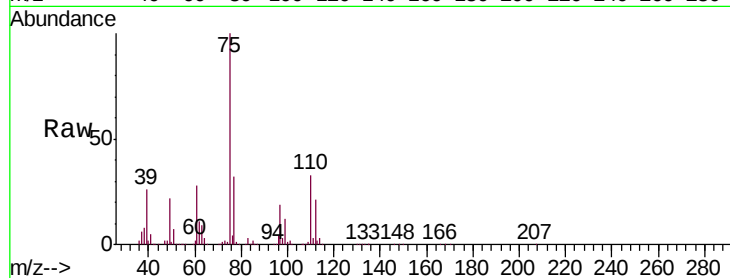
VSTD20057

Tgt Ion: 75 Resp: 1088430

Ion Ratio Lower Upper

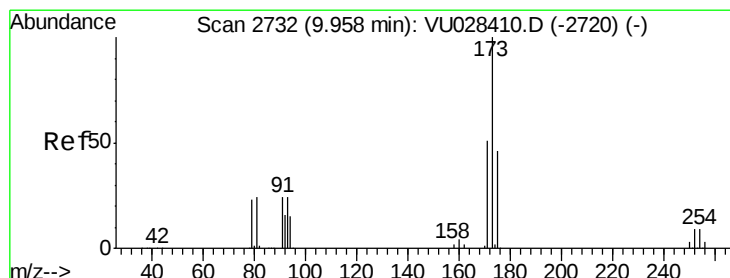
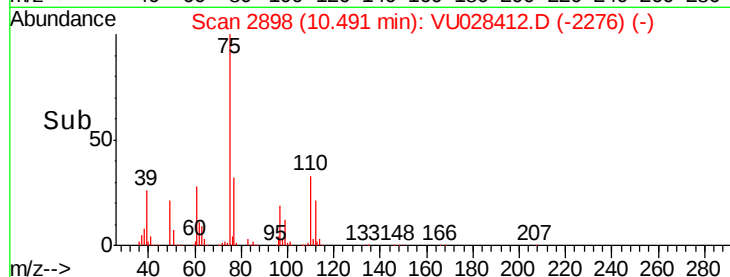
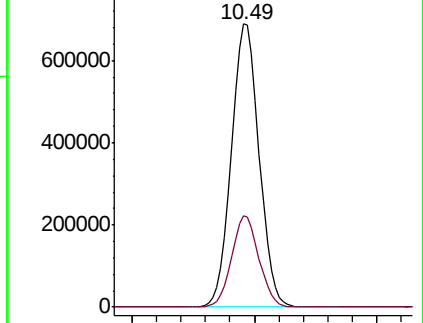
75 100

77 31.8 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU028412.D (-2882) (-)

Ion 77.00 (76.70 to 77.70): VU028412.D (-2882) (-)



#61

Bromoform

Concen: 201.610 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

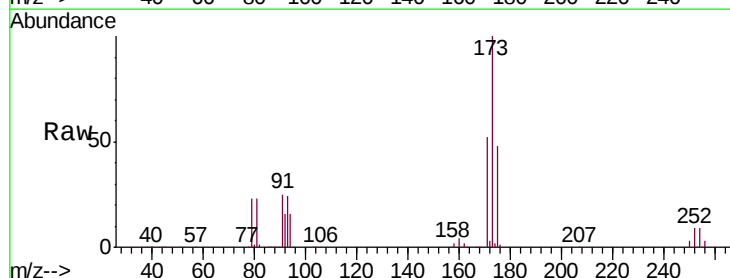
Tgt Ion: 173 Resp: 588400

Ion Ratio Lower Upper

173 100

175 48.0 38.1 57.1

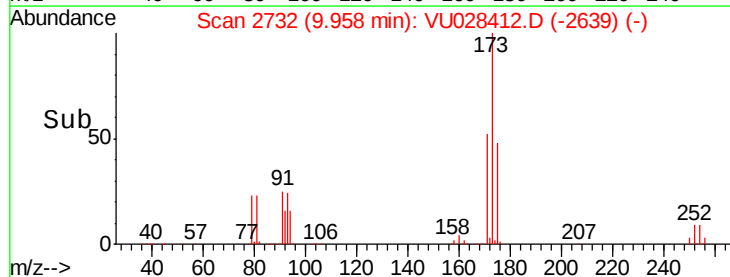
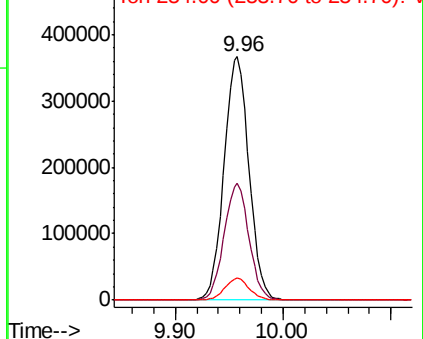
254 8.9 6.8 10.2

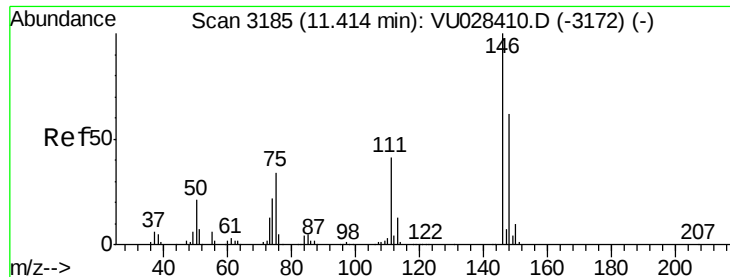


Abundance Ion 173.00 (172.70 to 173.70): VU028412.D (-2720) (-)

Ion 175.00 (174.70 to 175.70): VU028412.D (-2720) (-)

Ion 254.00 (253.70 to 254.70): VU028412.D (-2720) (-)





#62

1,3-Dichlorobenzene

Concen: 199.701 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

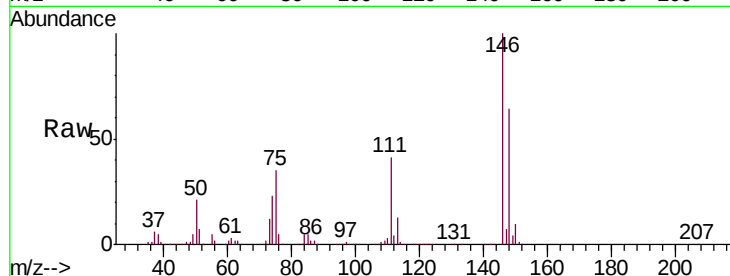
Tgt Ion:146 Resp: 1544268

Ion Ratio Lower Upper

146 100

111 41.5 28.8 53.4

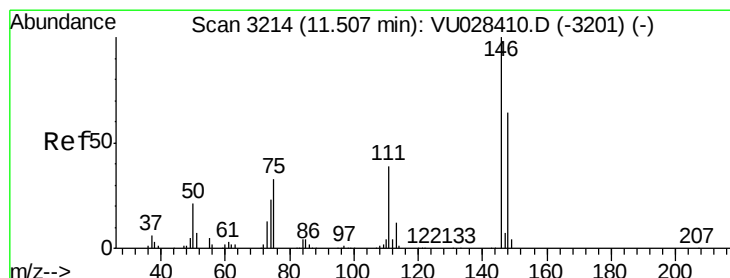
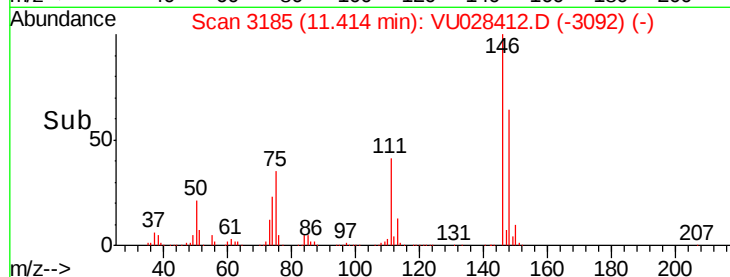
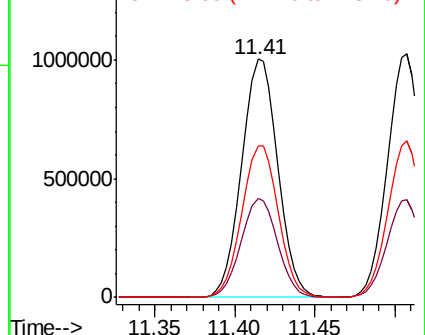
148 63.7 43.1 80.1



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: 199.948 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

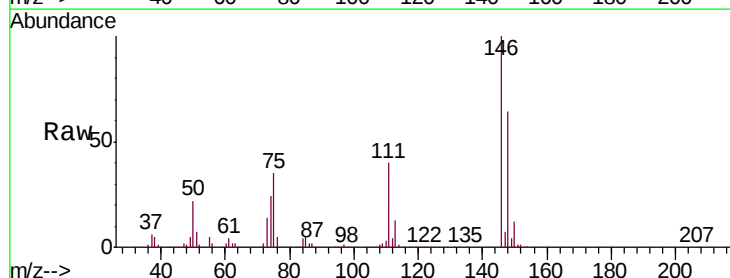
Tgt Ion:146 Resp: 1557034

Ion Ratio Lower Upper

146 100

111 39.9 27.6 51.4

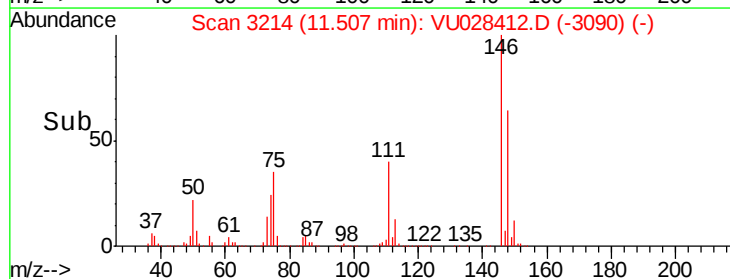
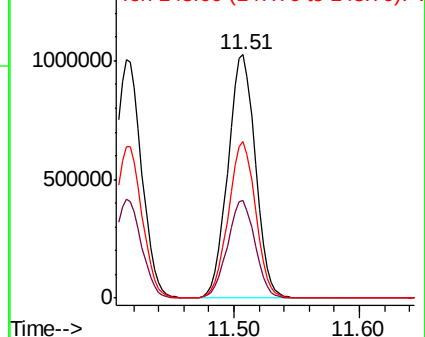
148 64.1 44.7 82.9

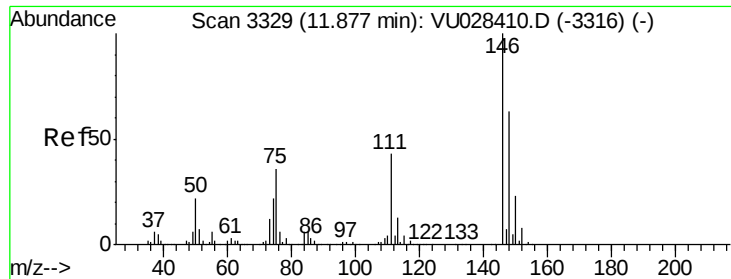


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 199.699 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

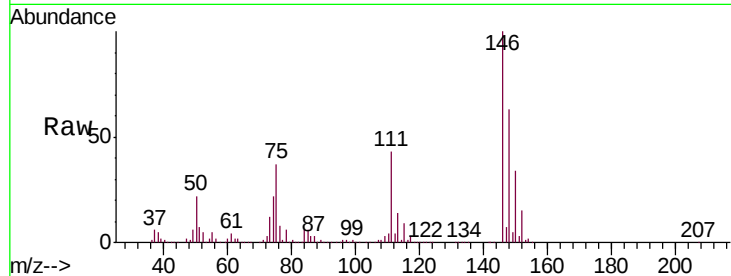
Tgt Ion:146 Resp: 1532800

Ion Ratio Lower Upper

146 100

111 43.5 34.9 52.3

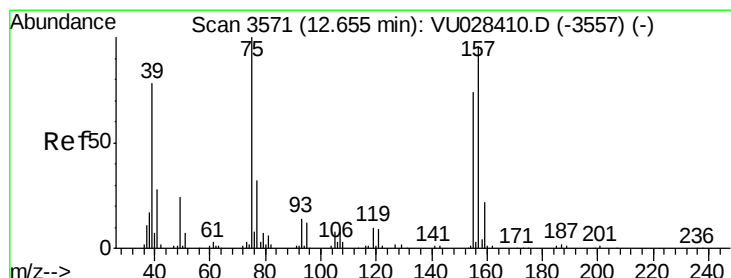
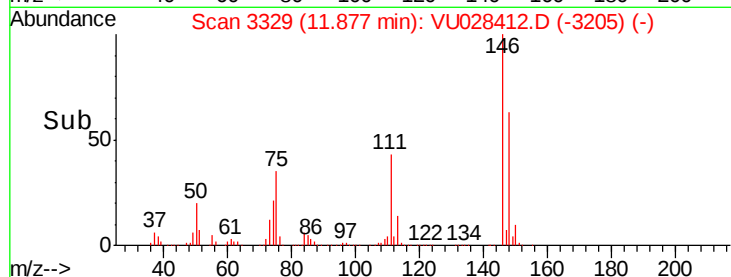
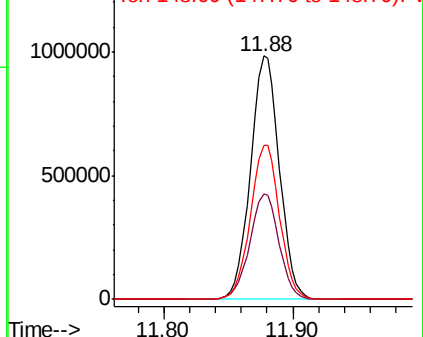
148 63.3 50.8 76.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 201.196 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

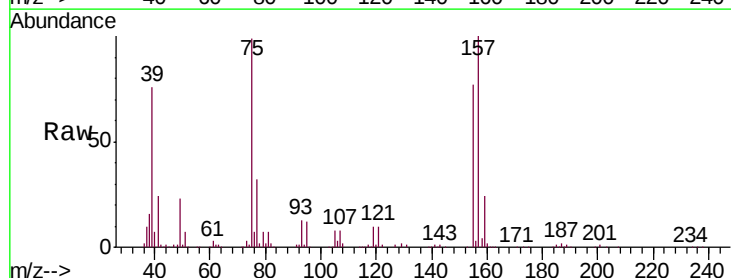
Tgt Ion: 75 Resp: 311103

Ion Ratio Lower Upper

75 100

155 77.3 58.8 88.2

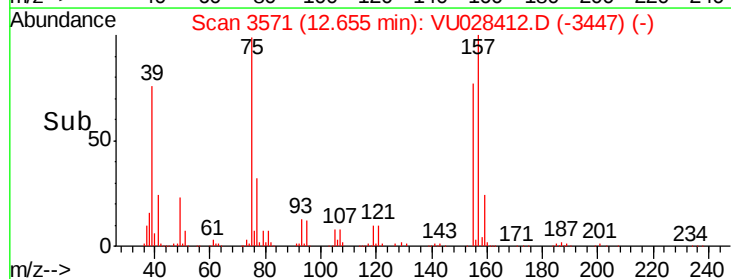
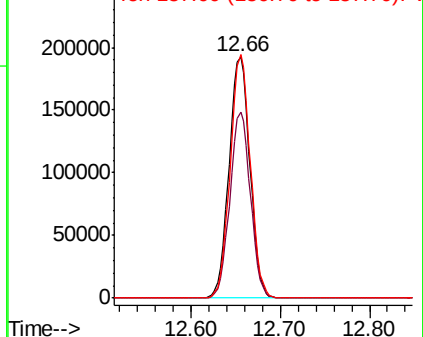
157 100.9 76.9 115.3

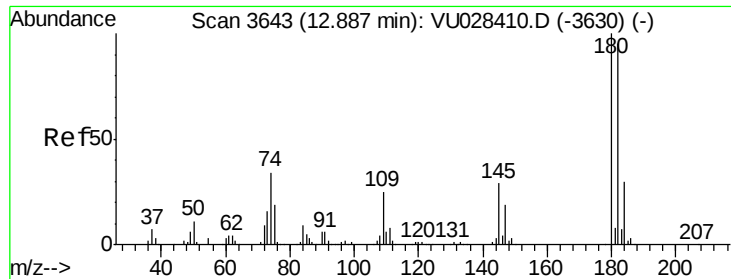


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

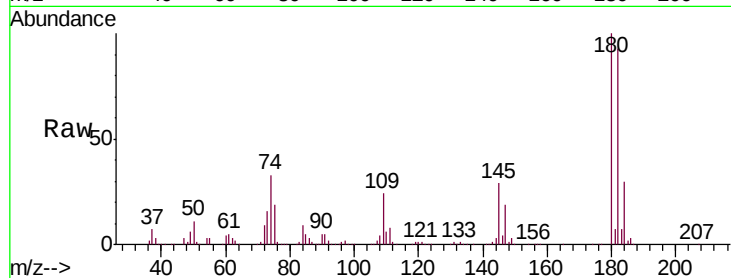




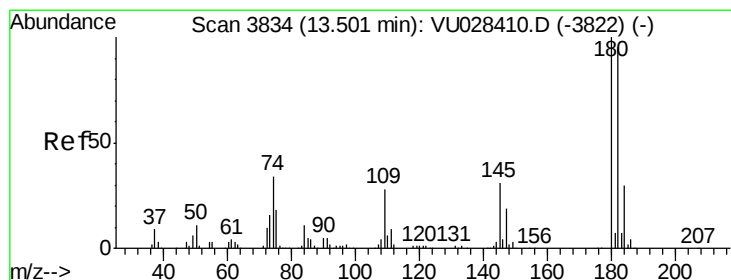
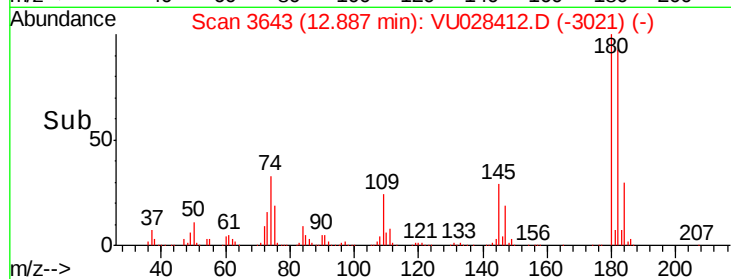
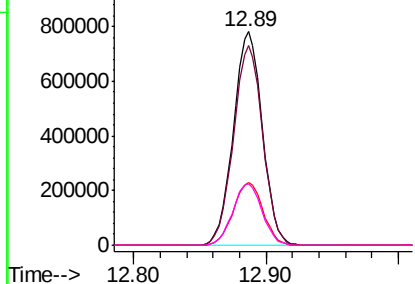
#67
 1,3,5-Trichlorobenzene
 Concen: 207.592 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

Tgt Ion:180 Resp: 1180926
 Ion Ratio Lower Upper
 180 100
 182 94.3 75.8 113.6
 184 30.2 24.0 36.0
 145 29.2 23.8 35.8

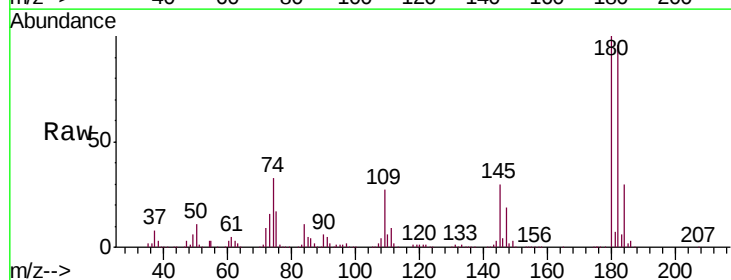


Abundance Ion 180.00 (179.70 to 180.70): V
 1200000 Ion 182.00 (181.70 to 182.70): V
 1000000 Ion 184.00 (183.70 to 184.70): V
 800000 Ion 145.00 (144.70 to 145.70): V
 600000
 400000
 200000
 0

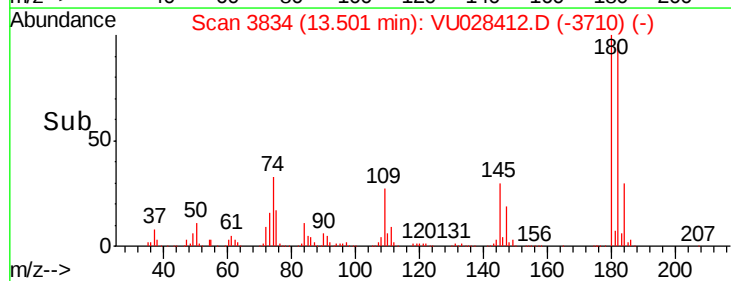
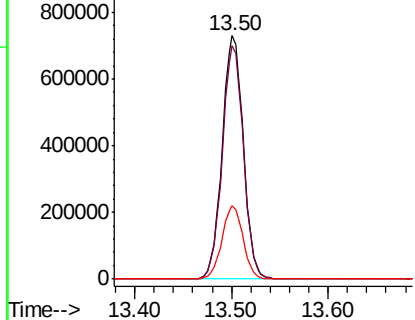


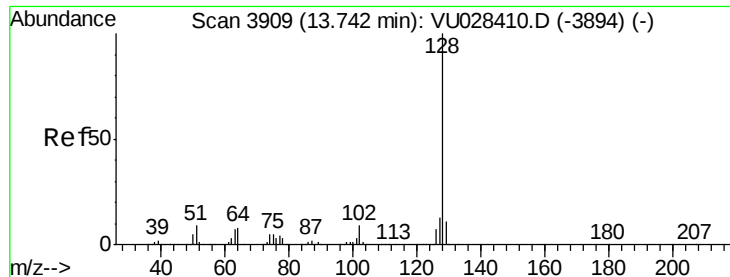
#68
 1,2,4-trichlorobenzene
 Concen: 208.776 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028412.D
 Acq: 30 Nov 2018 10:37

Tgt Ion:180 Resp: 1106133
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.0 114.0
 145 30.1 24.2 36.2



Abundance Ion 180.00 (179.70 to 180.70): V
 1000000 Ion 182.00 (181.70 to 182.70): V
 800000 Ion 145.00 (144.70 to 145.70): V
 600000
 400000
 200000
 0





#69

Naphthalene

Concen: 207.513 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

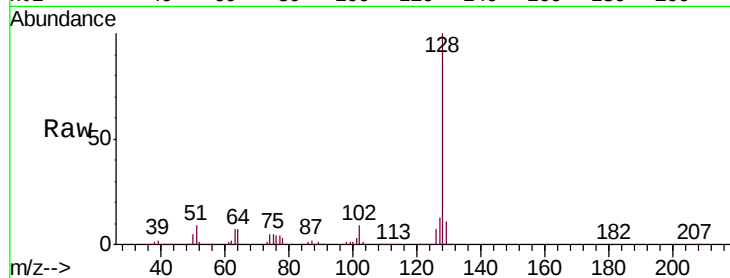
Tgt Ion:128 Resp: 3833683

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

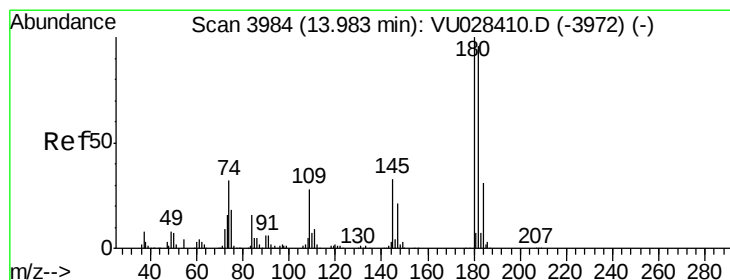
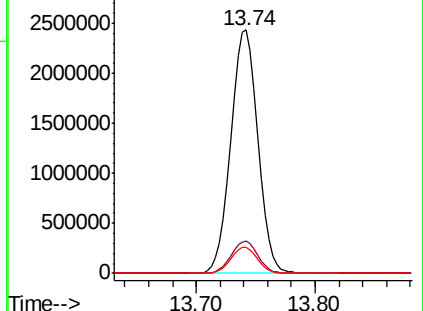
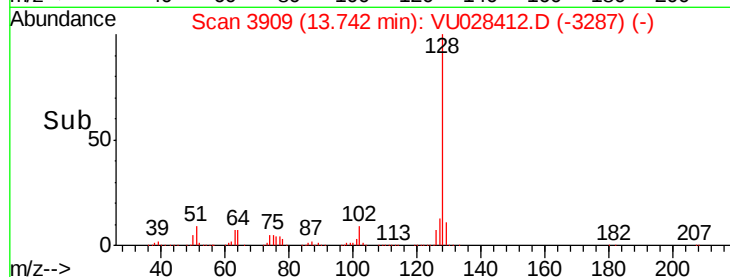
129 10.7 8.6 12.8



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: 205.341 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028412.D

Acq: 30 Nov 2018 10:37

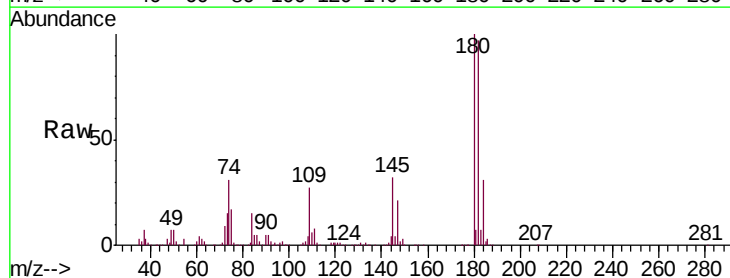
Tgt Ion:180 Resp: 1095878

Ion Ratio Lower Upper

180 100

182 95.8 76.6 115.0

145 31.5 26.2 39.2



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

