

Data File : VU028814.D
Acq On : 20 Dec 2018 10:58
Operator : MD/SY
Sample : VSTD20059
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20059

Quant Time: Dec 21 03:33:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 03:28:44 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	197591	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	196483	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	101117	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	335703	211.92	ug/L	0.00
7) Chloroethane-d5	1.66	69	253006	206.79	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	557794	209.39	ug/L	0.00
21) 2-Butanone-d5	4.17	46	491590	442.94	ug/L	0.00
24) Chloroform-d	4.65	84	531163	213.24	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	321623	209.46	ug/L	0.00
32) Benzene-d6	5.34	84	1148144	206.84	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	392399	208.09	ug/L	0.00
41) Toluene-d8	7.57	98	1066482	212.01	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	183709	217.41	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	411364	459.30	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	566774	216.65	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	421811	206.25	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	323249	200.628	ug/L	99
3) Chloromethane	1.33	50	438705	200.243	ug/L	98
5) Vinyl chloride	1.40	62	401644	207.518	ug/L	99
6) Bromomethane	1.60	94	181247	219.844	ug/L	98
8) Chloroethane	1.68	64	223400	202.218	ug/L	98
9) Trichlorofluoromethane	1.88	101	398583	201.386	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	257334	200.955	ug/L	99
12) 1,1-Dichloroethene	2.28	96	258164	203.776	ug/L	90
13) Acetone	2.32	43	402823	356.157	ug/L	99
14) Carbon disulfide	2.47	76	896825	202.711	ug/L	100
15) Methyl Acetate	2.61	43	350428	198.733	ug/L	100
16) Methylene chloride	2.70	84	313388	200.587	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	283533	206.571	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	876429	207.652	ug/L	99
19) 1,1-Dichloroethane	3.44	63	547046	205.028	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	324128	208.464	ug/L	96
22) 2-Butanone	4.26	43	557107	404.495	ug/L	100
23) Bromochloromethane	4.55	128	145979	196.947	ug/L	97
25) Chloroform	4.67	83	512365	201.755	ug/L	99
27) 1,2-Dichloroethane	5.40	62	389885	206.580	ug/L	99
29) Cyclohexane	4.99	56	532630	203.676	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	410264	197.278	ug/L	100
31) Carbon tetrachloride	5.13	117	339180	202.251	ug/L	99
33) Benzene	5.39	78	1244021	198.876	ug/L	100
34) Trichloroethene	6.18	95	301752	199.812	ug/L	96
35) Methylcyclohexane	6.41	83	521531	207.348	ug/L	99
37) 1,2-Dichloropropane	6.43	63	347812	198.911	ug/L	100
38) Bromodichloromethane	6.76	83	390017	201.416	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	527569	211.630	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	975028	414.857	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	1302579	205.424	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	472676	212.710	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	299581	200.381	ug/L	99
46) Tetrachloroethene	8.22	164	234178	201.341	ug/L	99
48) 2-Hexanone	8.36	43	799189	414.301	ug/L	99
49) Dibromochloromethane	8.48	129	311651	209.278	ug/L	99
50) 1,2-Dibromoethane	8.58	107	319783	205.581	ug/L	100
51) Chlorobenzene	9.12	112	820441	205.300	ug/L	99
52) Ethylbenzene	9.25	91	1441770	211.608	ug/L	99
53) m,p-Xylene	9.37	106	540153	214.388	ug/L	100
54) o-xylene	9.78	106	538368	213.198	ug/L	98
55) Styrene	9.79	104	946148	221.231	ug/L	99
56) Isopropylbenzene	10.16	105	1381893	215.722	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	565210	208.103	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	426563	204.422	ug/L	100
61) Bromoform	9.95	173	248593	198.321	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	650729	202.585	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	661246	199.808	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	664585	198.338	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	114725	198.491	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	499810	211.040	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	453874	228.855	ug/L	98
69) Naphthalene	13.74	128	1523324	221.235	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	456357	213.398	ug/L	99

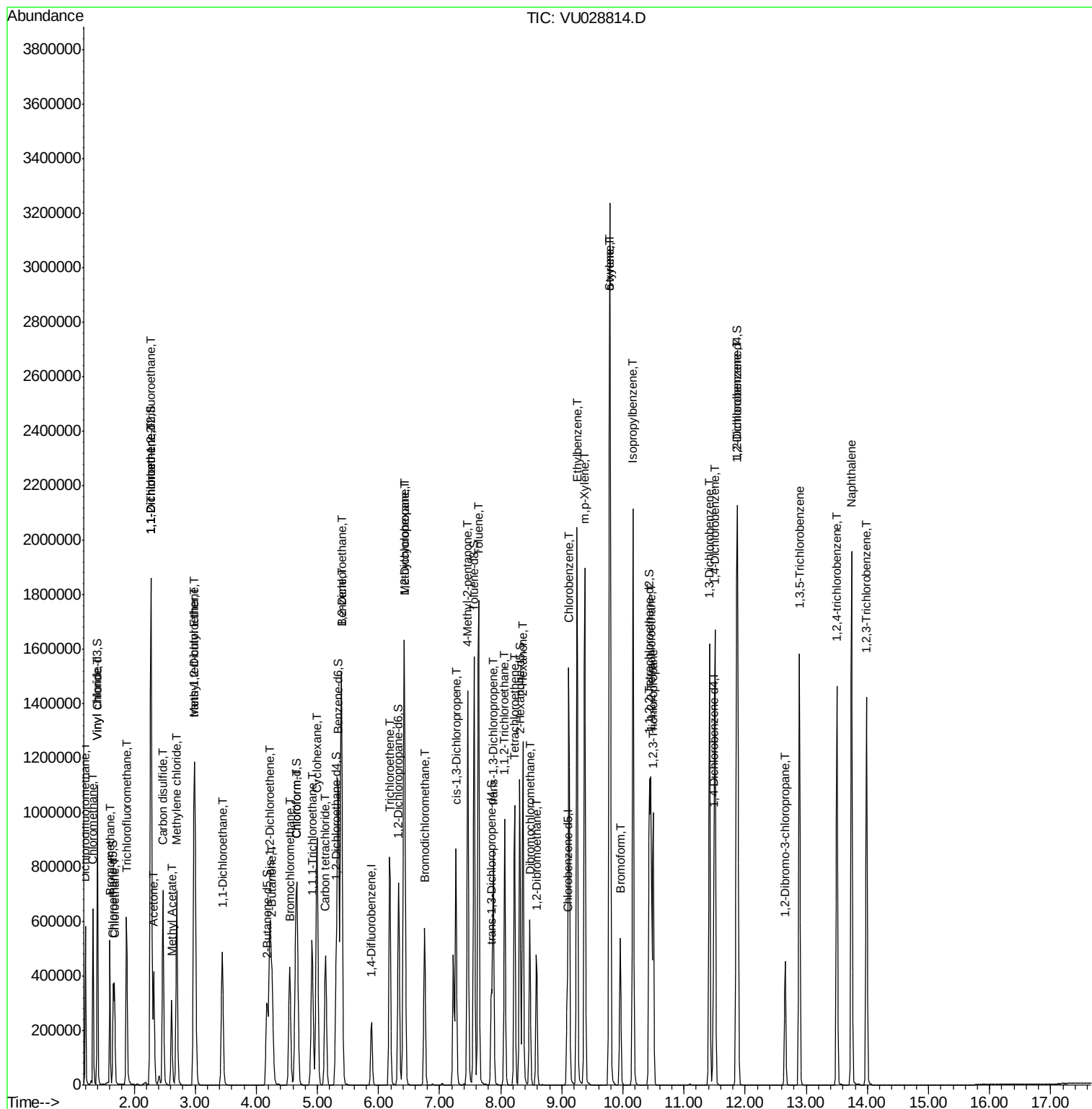
(#) = qualifier out of range (m) = manual integration (+) = signals summed

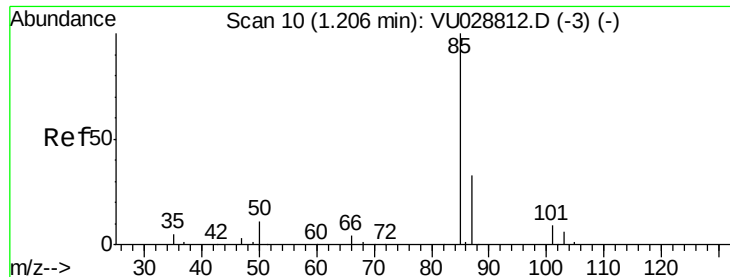
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#2

Dichlorodifluoromethane

Concen: 200.628 ug/L

RT: 1.20 min Scan# 9

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

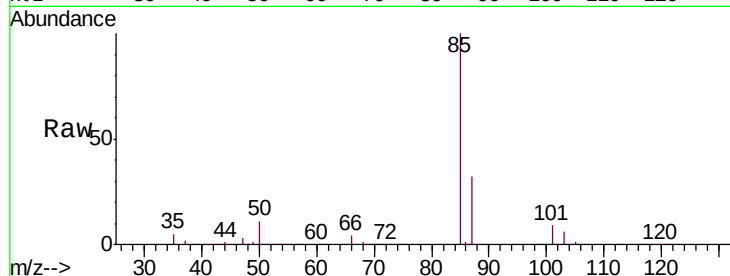
VSTD20059

Tgt Ion: 85 Resp: 323249

Ion Ratio Lower Upper

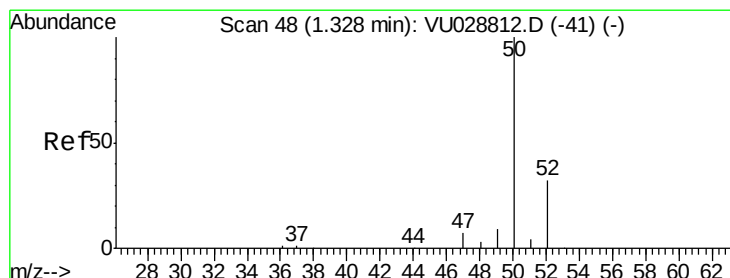
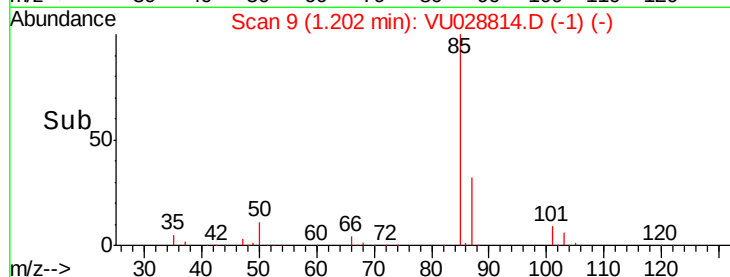
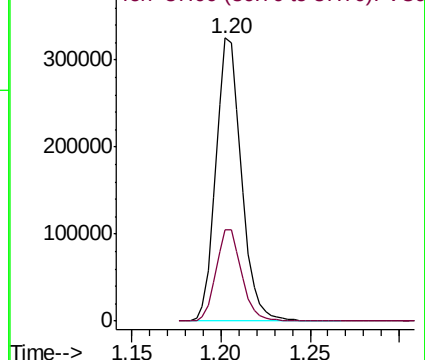
85 100

87 32.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 200.243 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028814.D

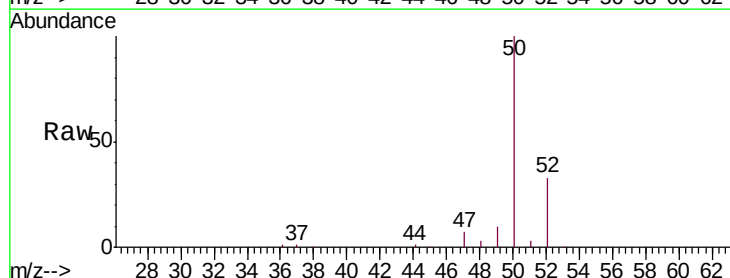
Acq: 20 Dec 2018 10:58

Tgt Ion: 50 Resp: 438705

Ion Ratio Lower Upper

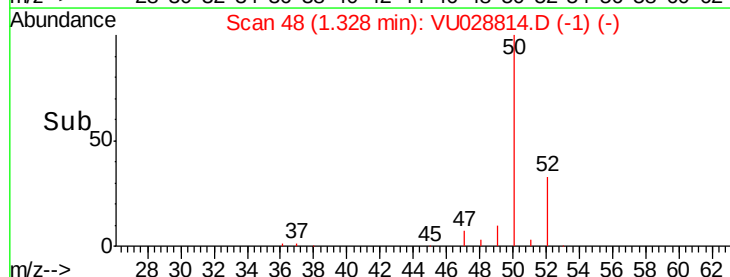
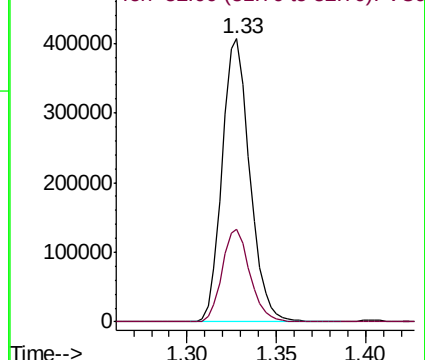
50 100

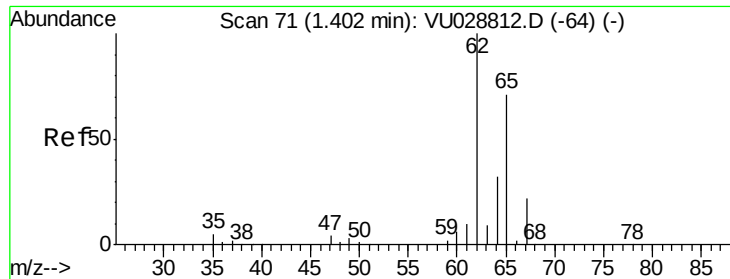
52 32.8 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 207.518 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

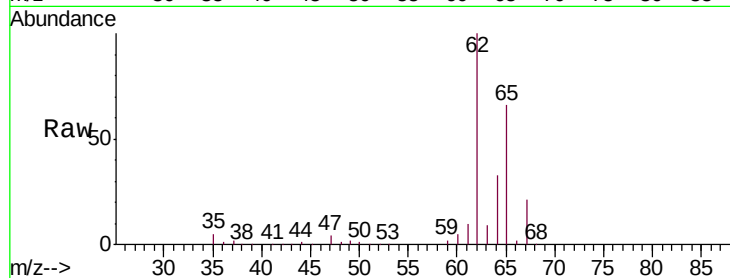
VSTD20059

Tgt Ion: 62 Resp: 401644

Ion Ratio Lower Upper

62 100

64 32.6 22.3 41.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

400000

300000

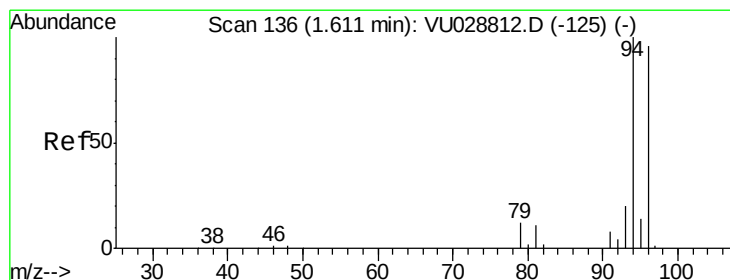
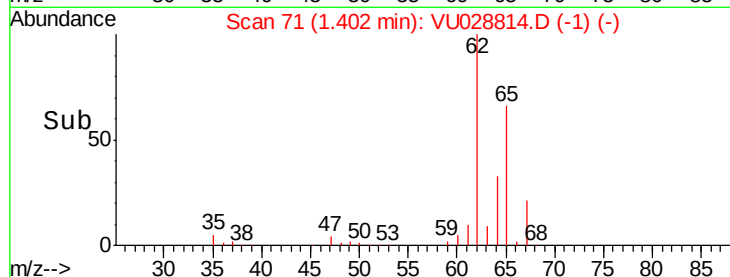
200000

100000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 219.844 ug/L

RT: 1.60 min Scan# 134

Delta R.T. -0.01 min

Lab File: VU028814.D

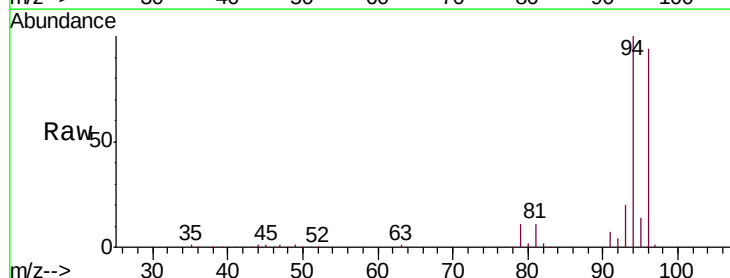
Acq: 20 Dec 2018 10:58

Tgt Ion: 94 Resp: 181247

Ion Ratio Lower Upper

94 100

96 94.0 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.60

200000

150000

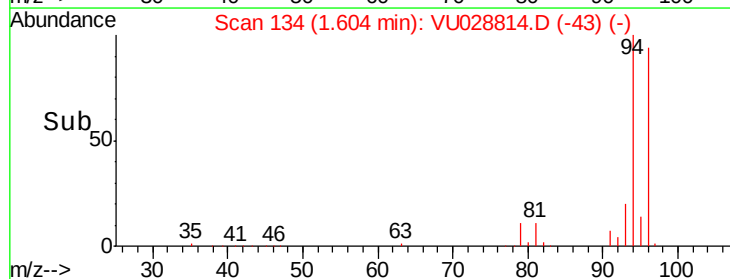
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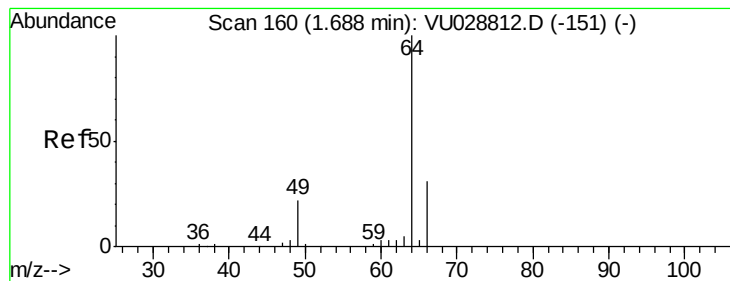
50000

0

Time-->

1.55 1.60 1.65





#8

Chloroethane

Concen: 202.218 ug/L

RT: 1.68 min Scan# 157

Delta R.T. -0.01 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

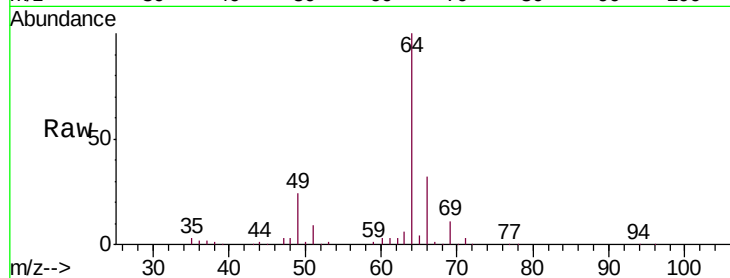
VSTD20059

Tgt Ion: 64 Resp: 223400

Ion Ratio Lower Upper

64 100

66 31.7 21.5 39.9



Abundance Ion 64.00 (63.70 to 64.70): VU028812.D (-151) (-)

Ion 66.00 (65.70 to 66.70): VU028812.D (-151) (-)

1.68

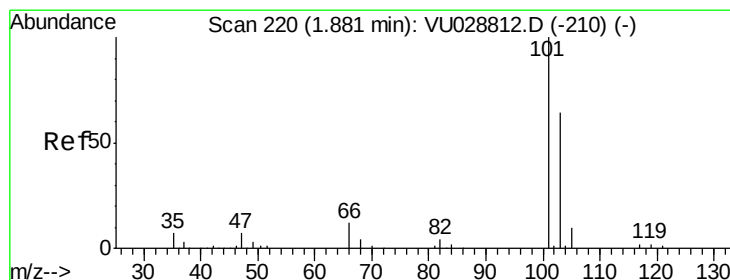
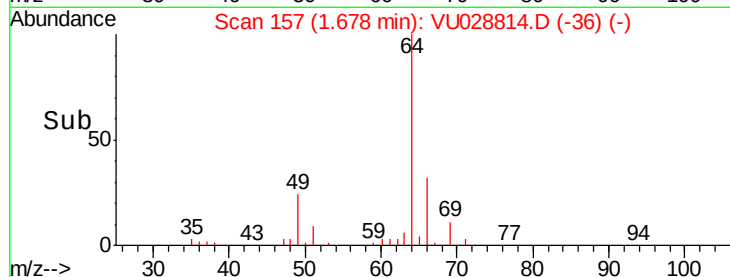
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 201.386 ug/L

RT: 1.88 min Scan# 219

Delta R.T. -0.00 min

Lab File: VU028814.D

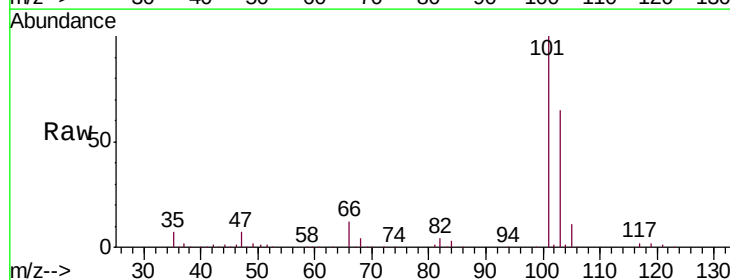
Acq: 20 Dec 2018 10:58

Tgt Ion: 101 Resp: 398583

Ion Ratio Lower Upper

101 100

103 65.0 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU028812.D (-210) (-)

Ion 103.00 (102.70 to 103.70): VU028812.D (-210) (-)

1.88

300000

250000

200000

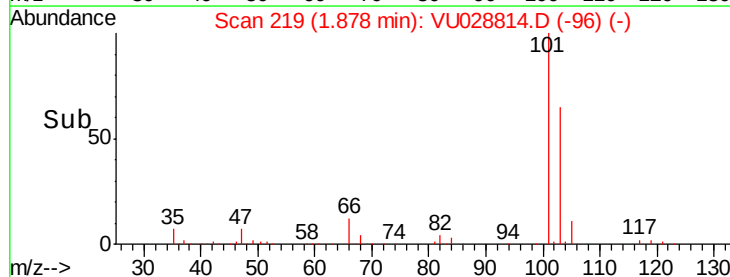
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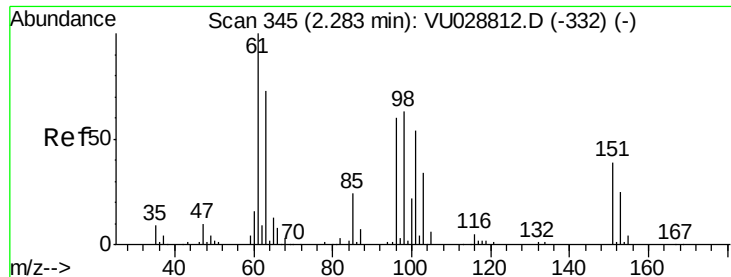
100000

50000

0

Time-->





#10

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

Concen: 200.955 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD20059

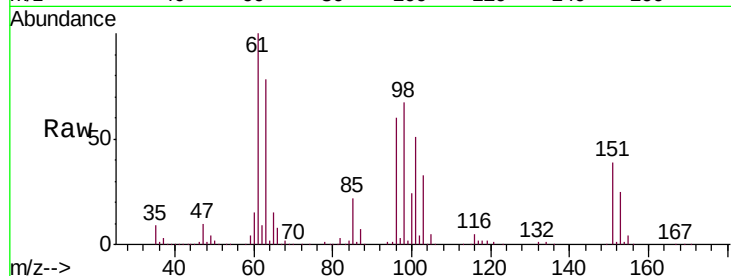
Tgt Ion: 101 Resp: 257334

Ion Ratio Lower Upper

101 100

85 41.4 33.8 50.6

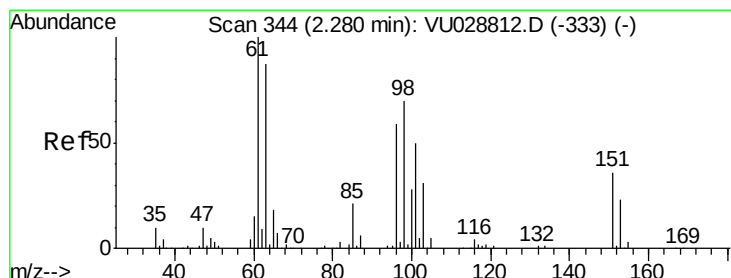
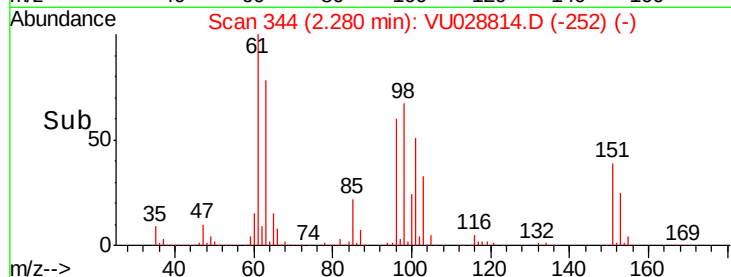
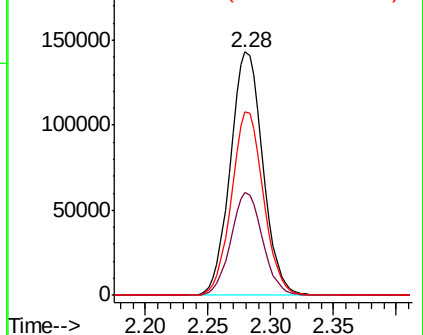
151 74.4 59.4 89.0



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: 203.776 ug/L

RT: 2.28 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

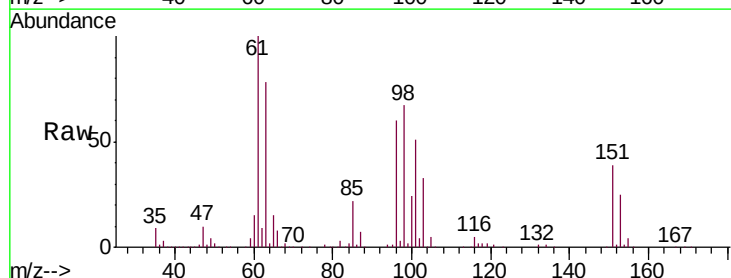
Tgt Ion: 96 Resp: 258164

Ion Ratio Lower Upper

96 100

61 166.5 119.3 221.5

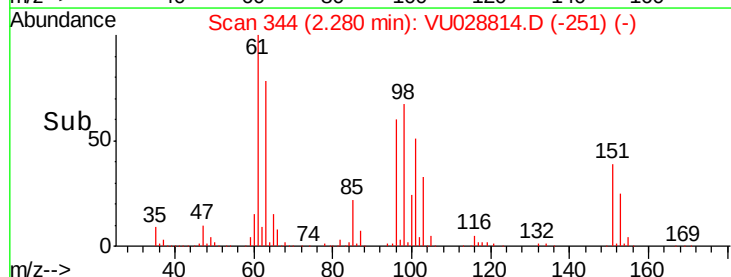
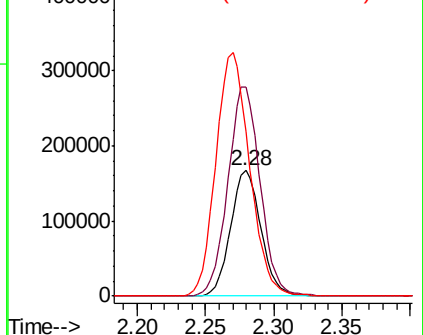
63 130.5 107.4 199.6

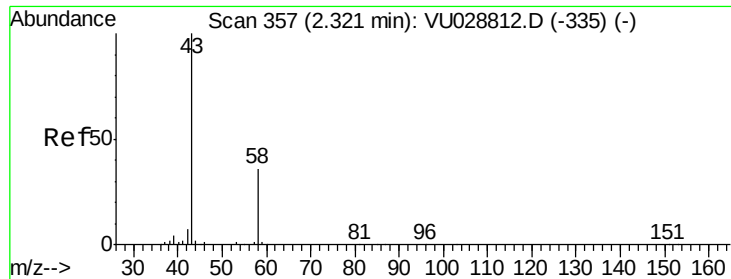


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 356.157 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

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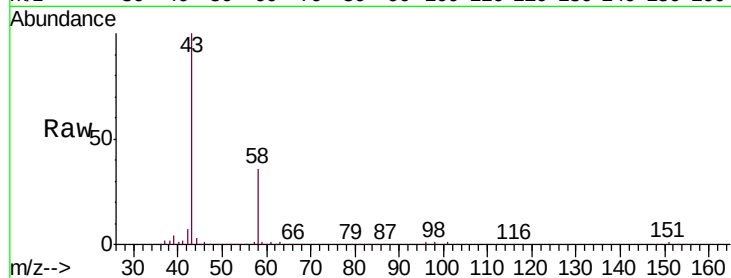
VSTD20059

Tgt Ion: 43 Resp: 402823

Ion Ratio Lower Upper

43 100

58 35.4 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU028812.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VU028812.D (-335) (-)

250000

200000

150000

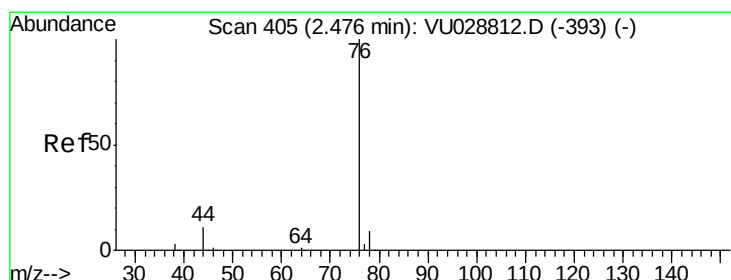
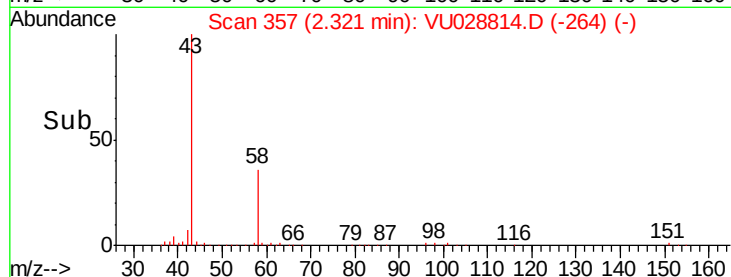
100000

50000

0

2.25 2.30 2.35 2.40 2.45

Time-->



#14

Carbon disulfide

Concen: 202.711 ug/L

RT: 2.47 min Scan# 404

Delta R.T. -0.00 min

Lab File: VU028814.D

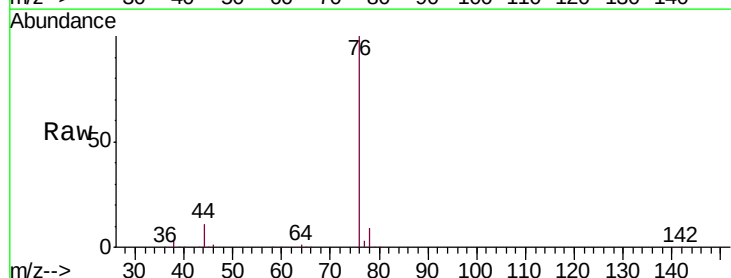
Acq: 20 Dec 2018 10:58

Tgt Ion: 76 Resp: 896825

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU028812.D (-393) (-)

Ion 78.00 (77.70 to 78.70): VU028812.D (-393) (-)

600000

500000

400000

300000

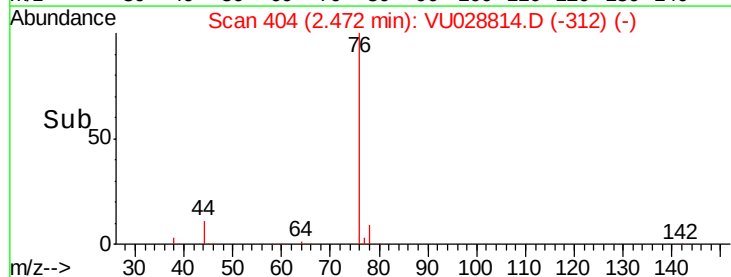
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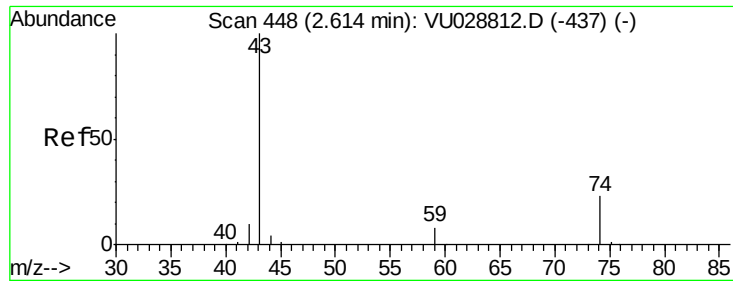
100000

0

2.40 2.50 2.60

Time-->

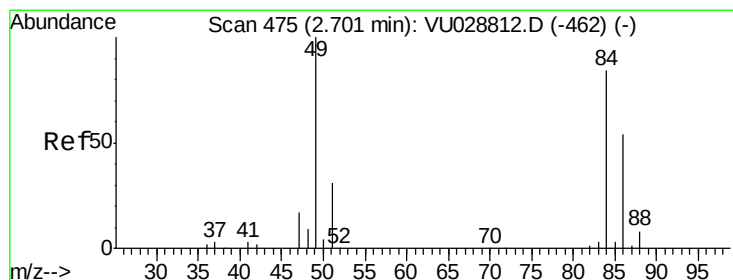
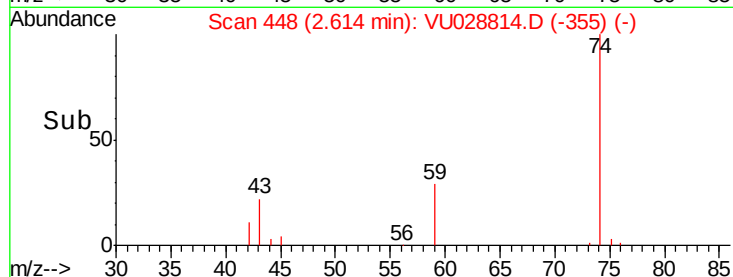
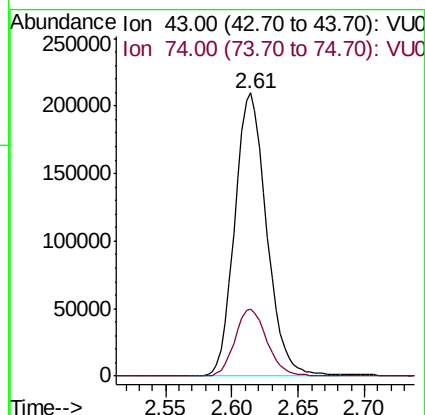
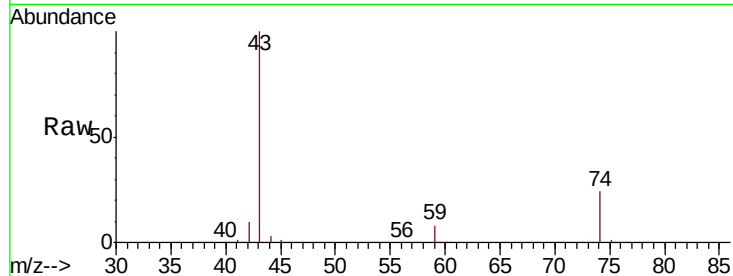




#15
Methyl Acetate
Concen: 198.733 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

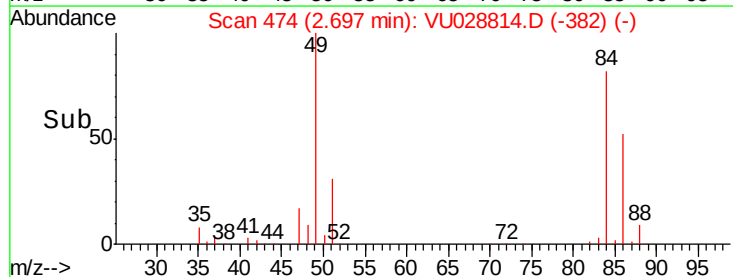
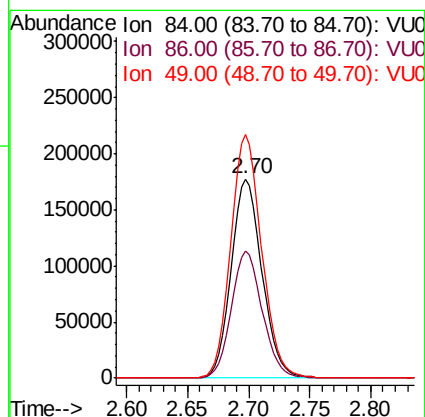
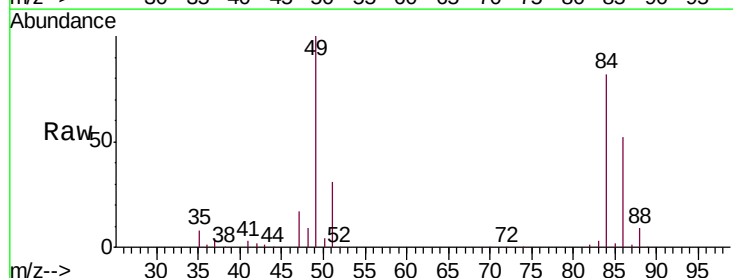
Instrument :
MSVOA_U
ClientSampleId :
VSTD20059

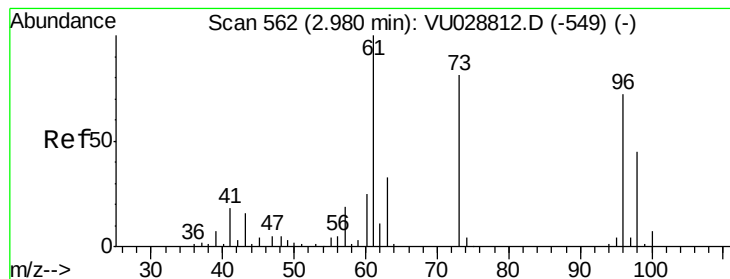
Tgt Ion: 43 Resp: 350428
Ion Ratio Lower Upper
43 100
74 23.7 19.0 28.4



#16
Methylene chloride
Concen: 200.587 ug/L
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 84 Resp: 313388
Ion Ratio Lower Upper
84 100
86 63.8 44.9 83.3
49 122.3 83.9 155.7





#17

trans-1,2-Dichloroethene

Concen: 206.571 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD20059

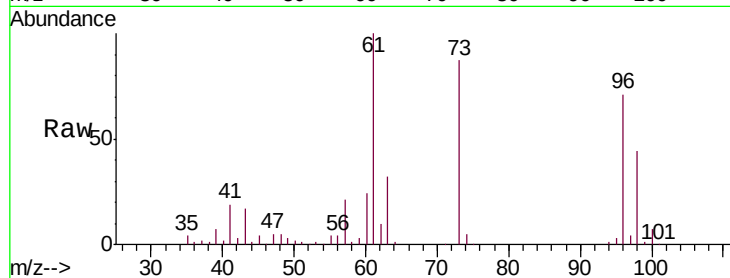
Tgt Ion: 96 Resp: 283533

Ion Ratio Lower Upper

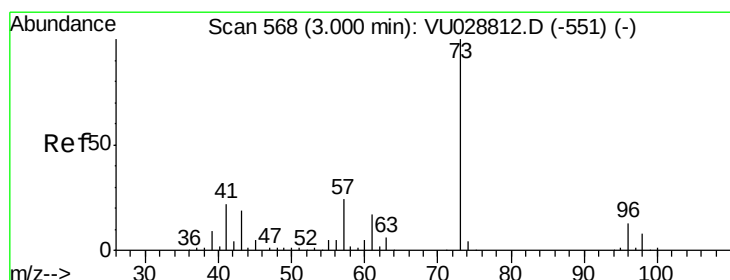
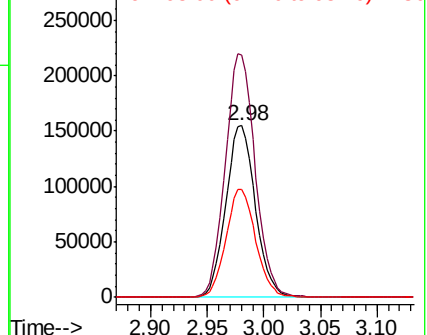
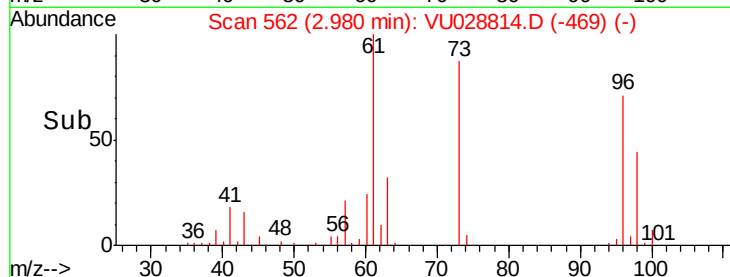
96 100

61 141.8 97.9 181.7

98 63.0 44.1 81.9



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: 207.652 ug/L

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

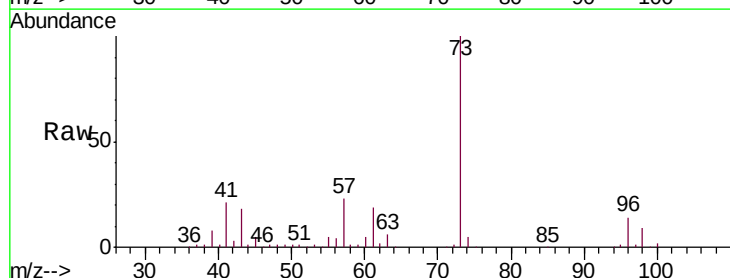
Tgt Ion: 73 Resp: 876429

Ion Ratio Lower Upper

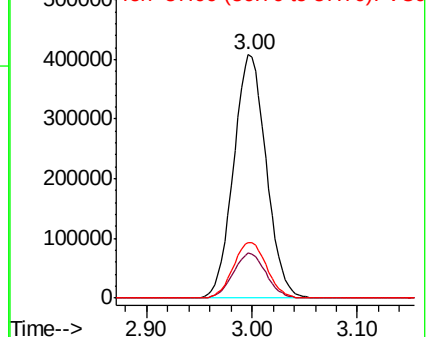
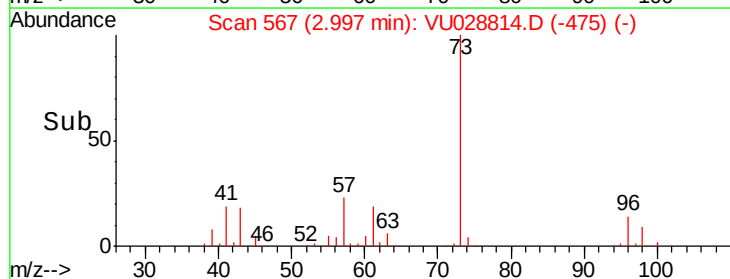
73 100

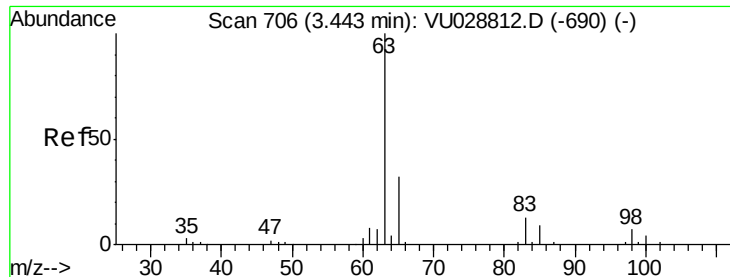
43 18.6 15.3 22.9

57 23.5 19.0 28.4



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

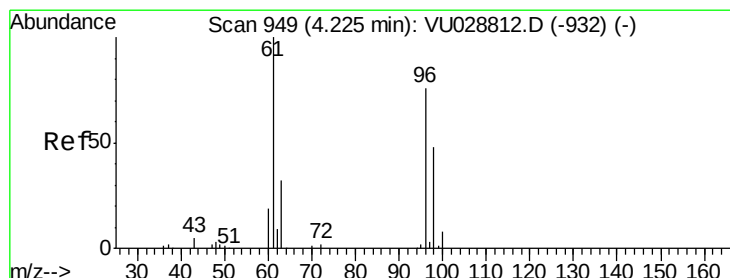
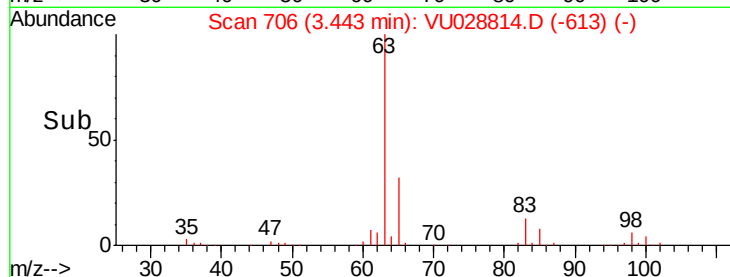
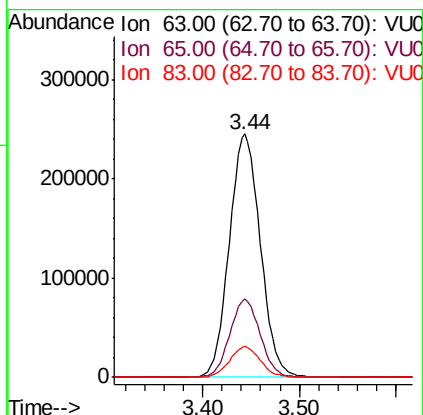
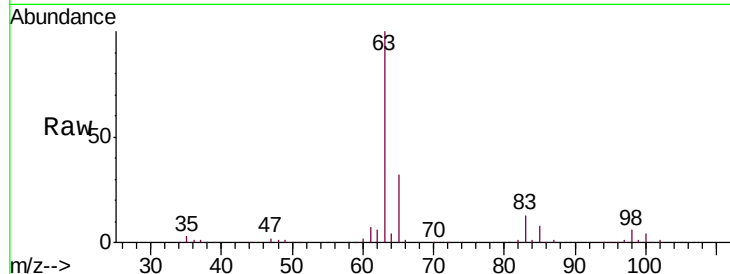




#19
 1,1-Dichloroethane
 Concen: 205.028 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

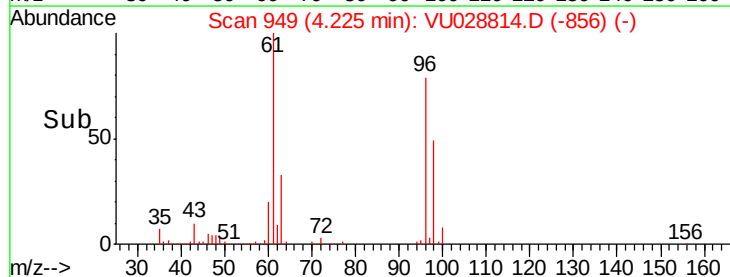
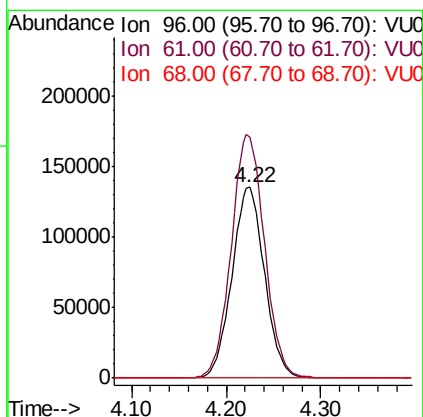
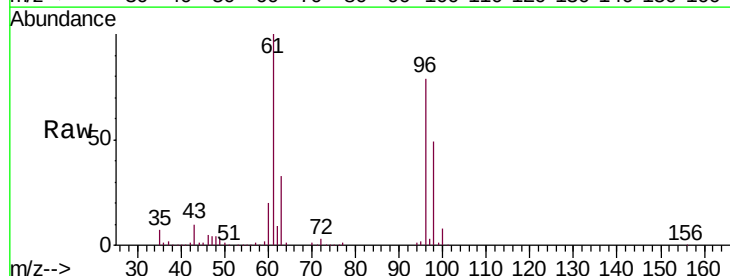
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20059

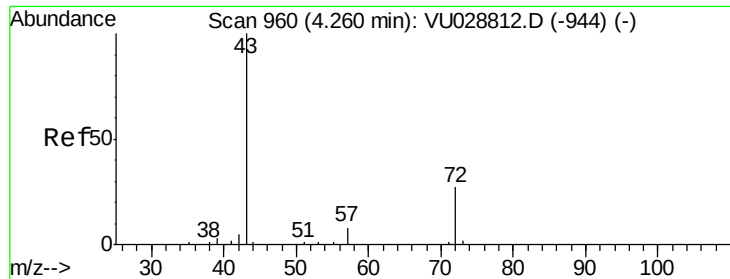
Tgt Ion: 63 Resp: 547046
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.7 42.1
 83 12.6 9.0 16.8



#20
 cis-1,2-Dichloroethene
 Concen: 208.464 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 96 Resp: 324128
 Ion Ratio Lower Upper
 96 100
 61 126.6 92.1 171.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 404.495 ug/L

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

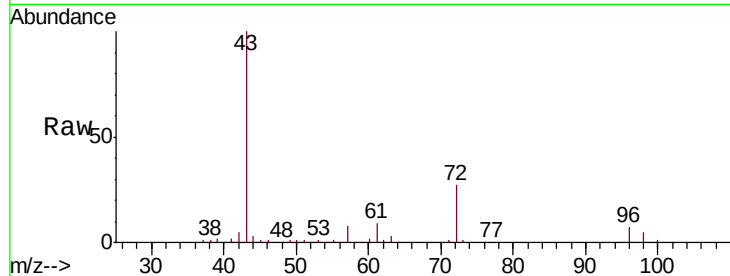
VSTD20059

Tgt Ion: 43 Resp: 557107

Ion Ratio Lower Upper

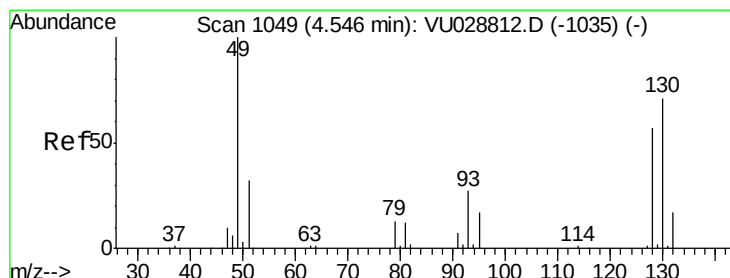
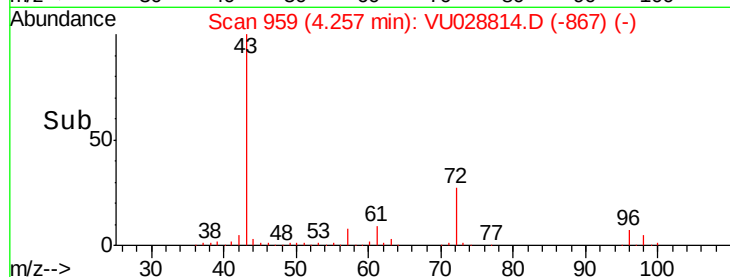
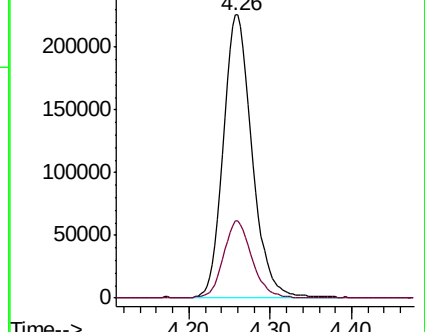
43 100

72 27.4 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VU028812.D (-944) (-)

Ion 72.00 (71.70 to 72.70): VU028812.D (-944) (-)



#23

Bromochloromethane

Concen: 196.947 ug/L

RT: 4.55 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Tgt Ion: 128 Resp: 145979

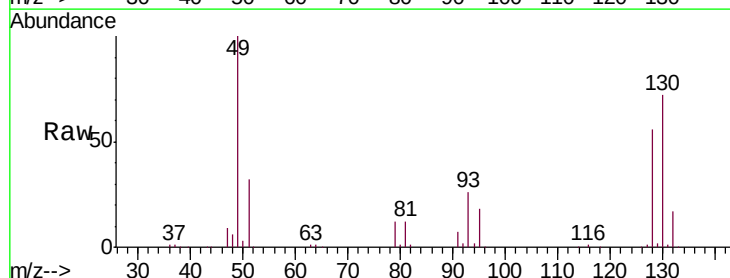
Ion Ratio Lower Upper

128 100

49 179.4 123.0 228.4

130 129.1 86.5 160.7

51 57.3 44.1 66.1

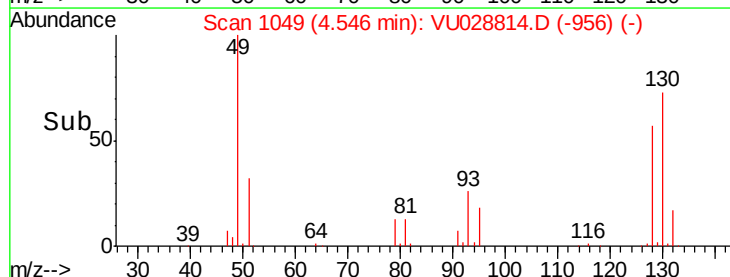
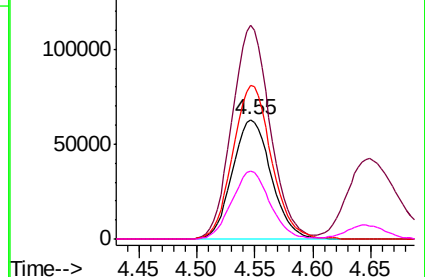


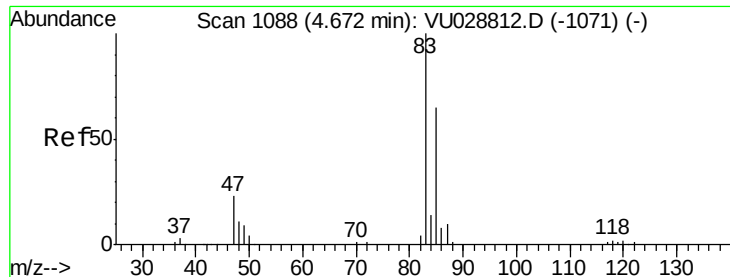
Abundance Ion 128.00 (127.70 to 128.70): VU028812.D (-1035) (-)

Ion 49.00 (48.70 to 49.70): VU028812.D (-1035) (-)

Ion 130.00 (129.70 to 130.70): VU028812.D (-1035) (-)

Ion 51.00 (50.70 to 51.70): VU028812.D (-1035) (-)

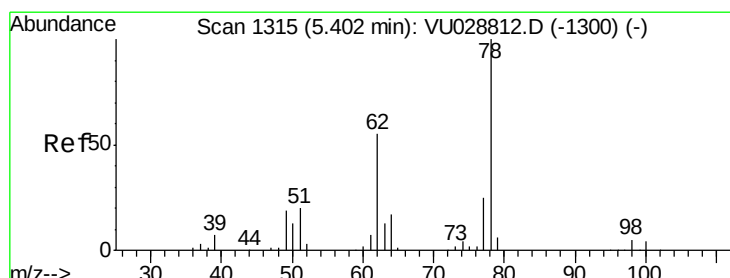
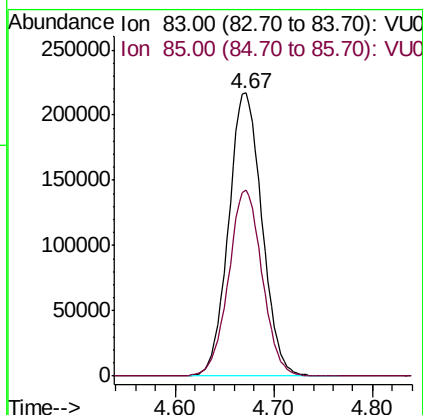
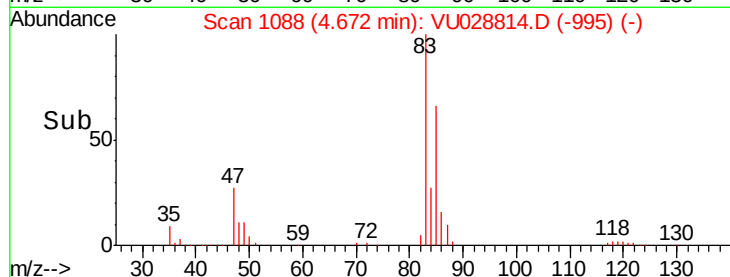
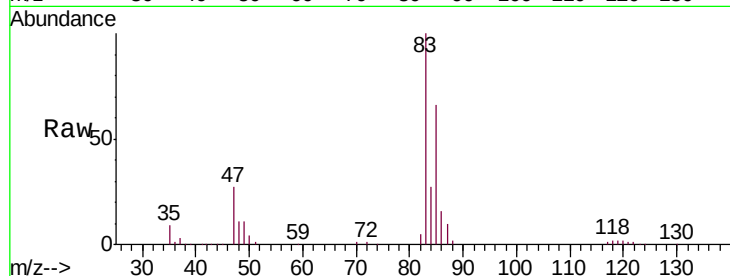




#25
Chloroform
Concen: 201.755 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

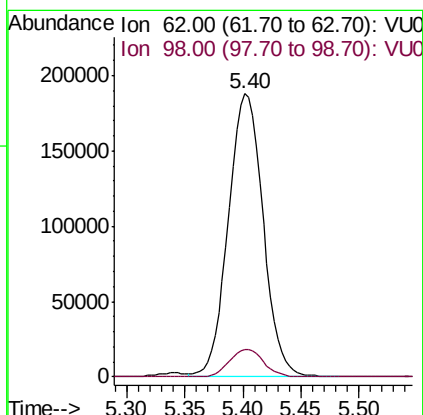
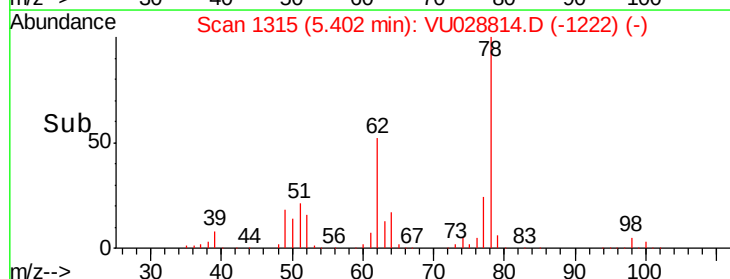
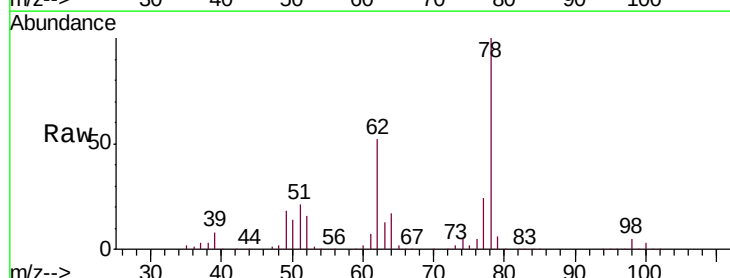
Instrument :
MSVOA_U
ClientSampleId :
VSTD20059

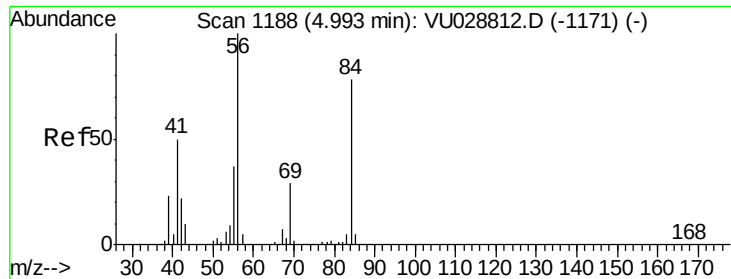
Tgt Ion: 83 Resp: 512365
Ion Ratio Lower Upper
83 100
85 65.7 45.6 84.6



#27
1,2-Dichloroethane
Concen: 206.580 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 62 Resp: 389885
Ion Ratio Lower Upper
62 100
98 9.8 7.5 11.3

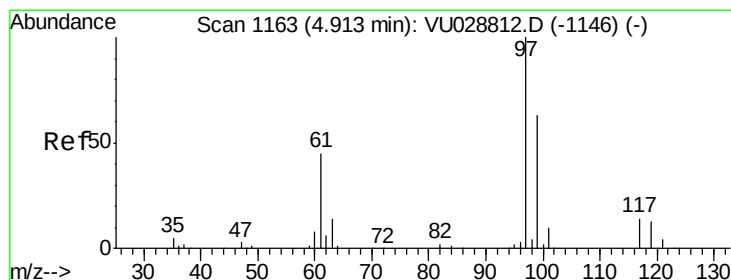
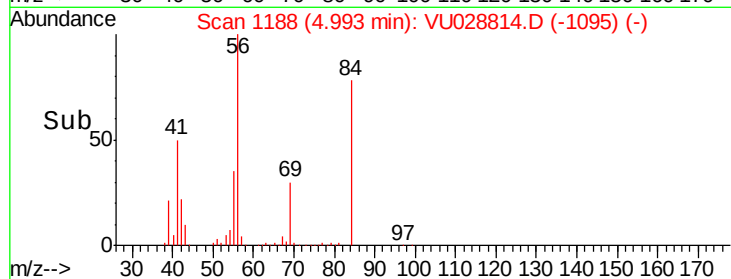
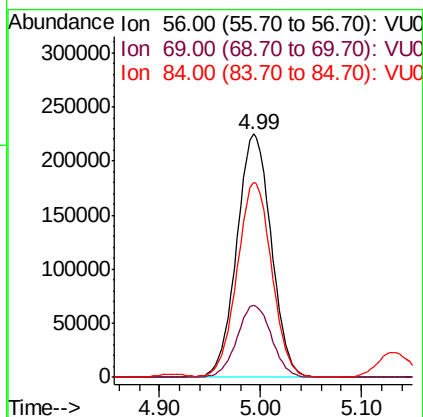
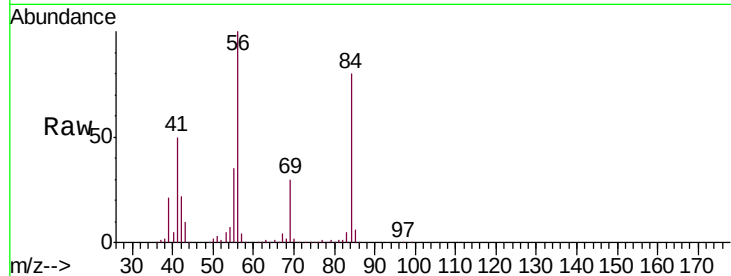




#29
Cyclohexane
Concen: 203.676 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

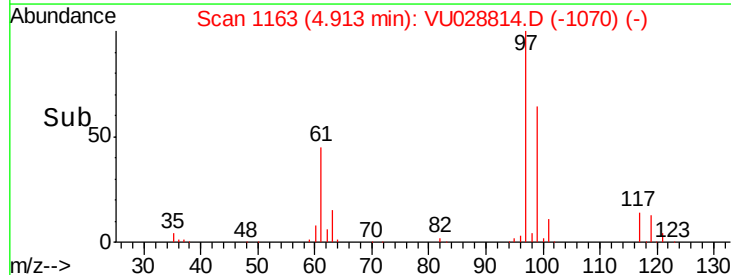
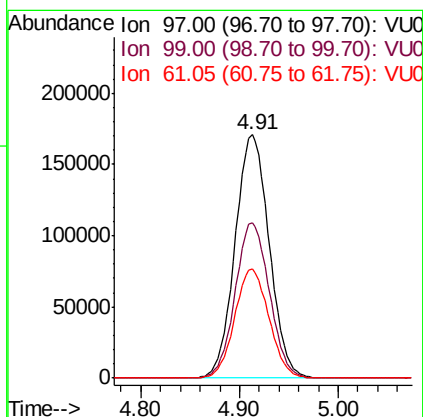
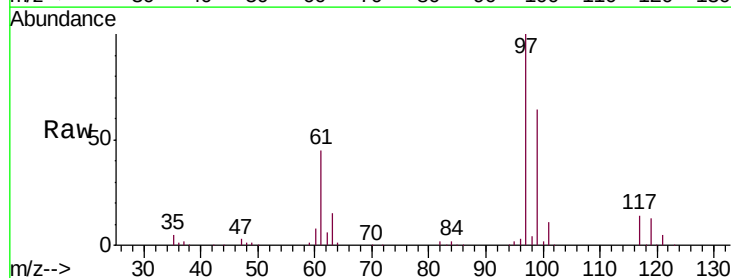
Instrument :
MSVOA_U
ClientSampleId :
VSTD20059

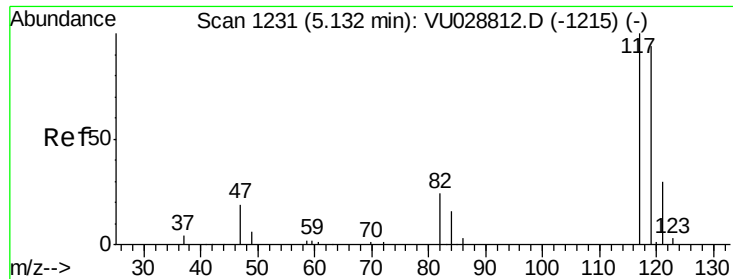
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.8	35.8
84	80.4	63.8	95.8



#30
1,1,1-Trichloroethane
Concen: 197.278 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.2	76.8
61	45.1	36.1	54.1





#31

Carbon tetrachloride

Concen: 202.251 ug/L

RT: 5.13 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

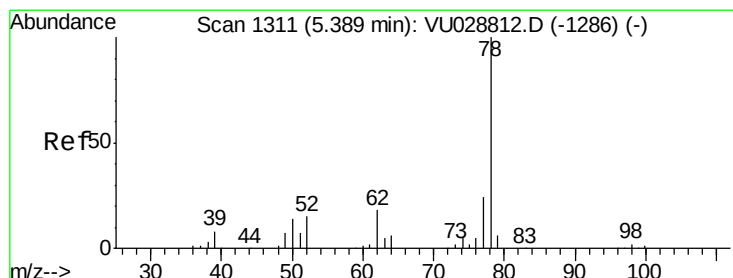
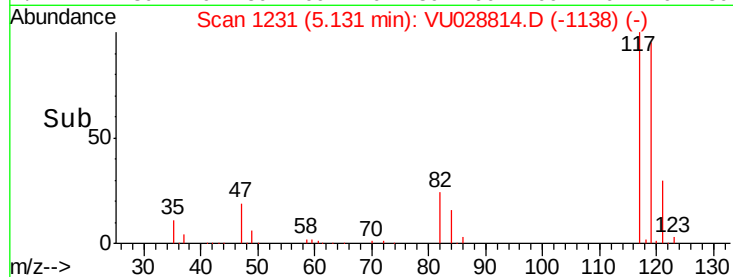
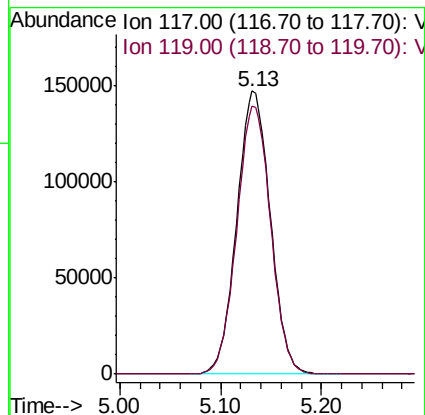
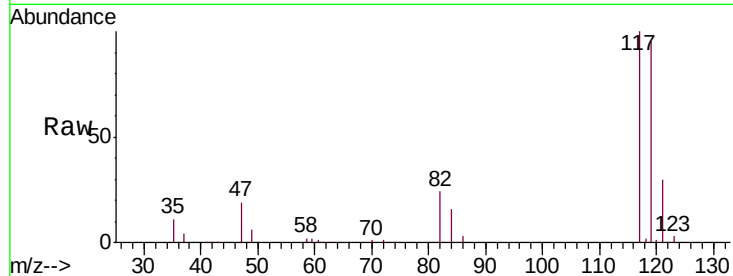
VSTD20059

Tgt Ion:117 Resp: 339180

Ion Ratio Lower Upper

117 100

119 95.6 77.0 115.6



#33

Benzene

Concen: 198.876 ug/L

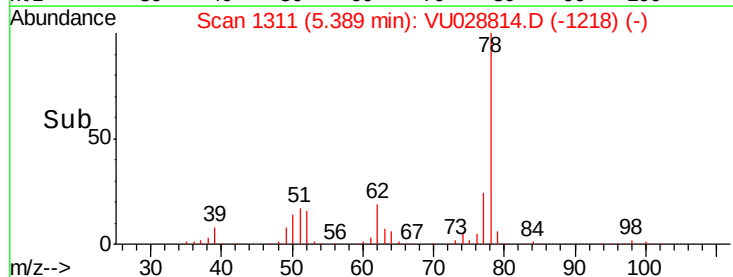
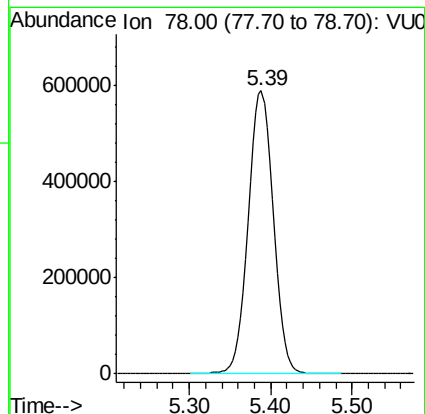
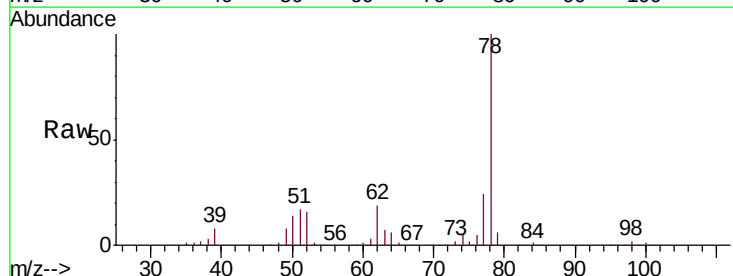
RT: 5.39 min Scan# 1311

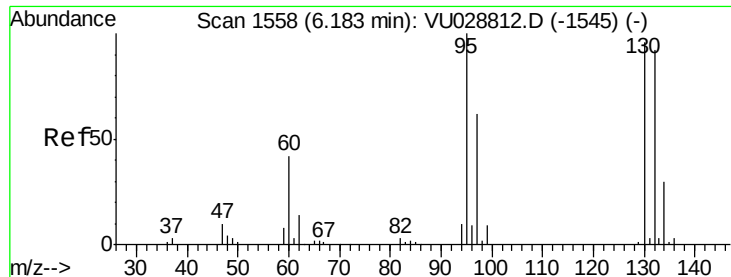
Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Tgt Ion: 78 Resp: 1244021





#34

Trichloroethene

Concen: 199.812 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD20059

Tgt Ion: 95 Resp: 301752

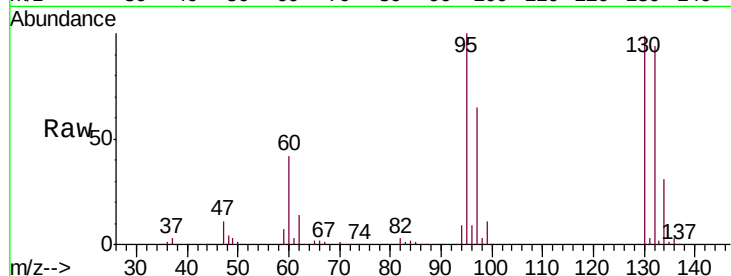
Ion Ratio Lower Upper

95 100

97 65.5 43.3 80.3

132 94.3 64.2 119.2

130 99.3 67.1 124.7



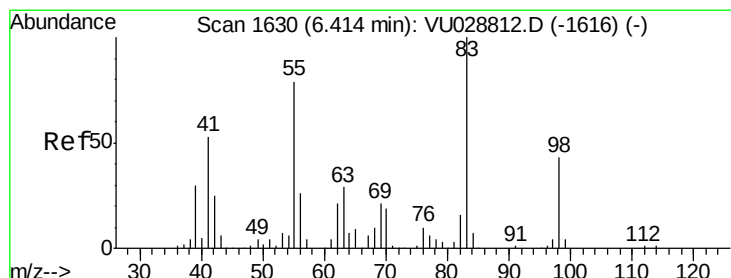
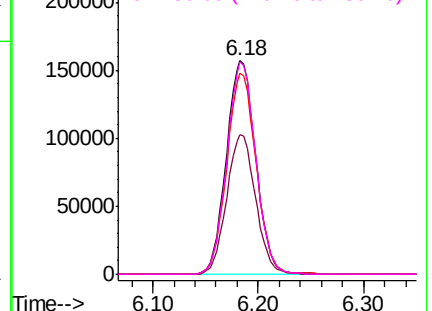
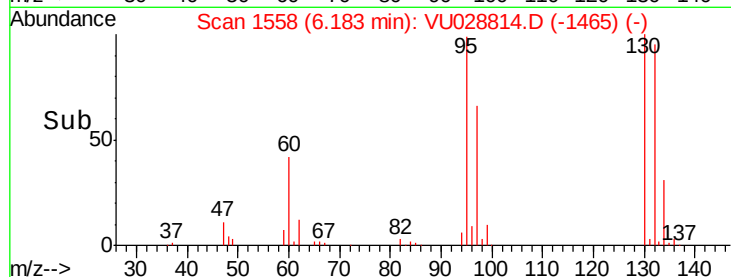
Abundance

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: 207.348 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

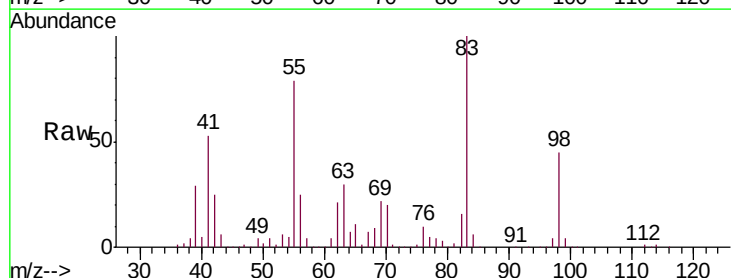
Tgt Ion: 83 Resp: 521531

Ion Ratio Lower Upper

83 100

55 78.7 63.7 95.5

98 44.6 35.6 53.4

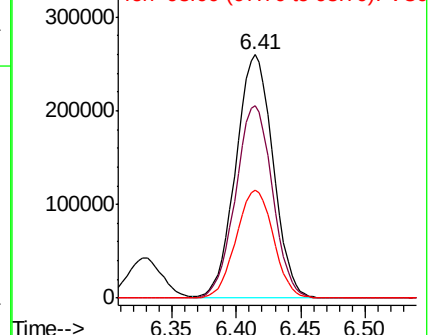
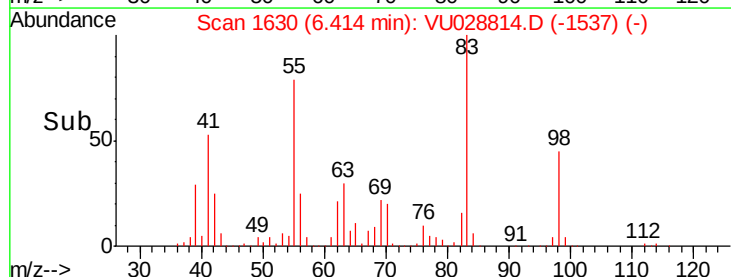


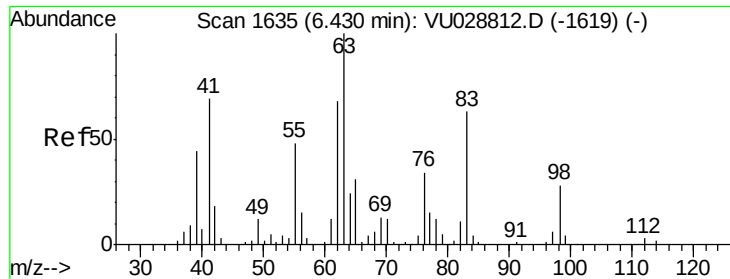
Abundance

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

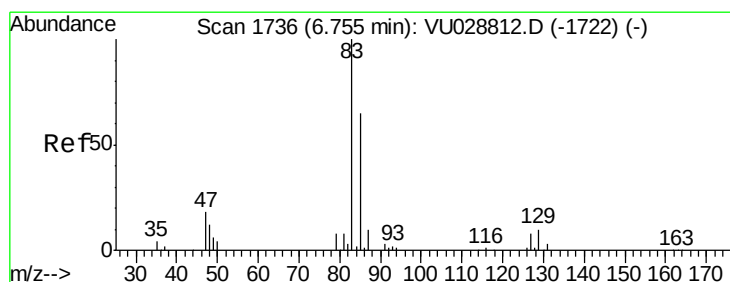
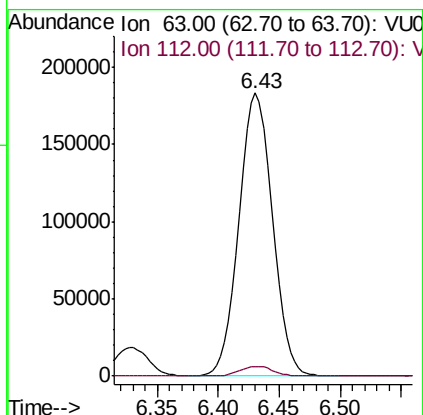
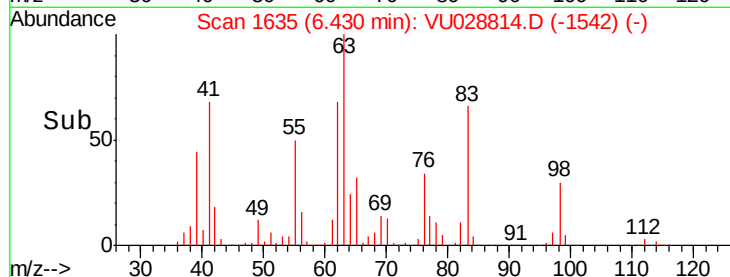
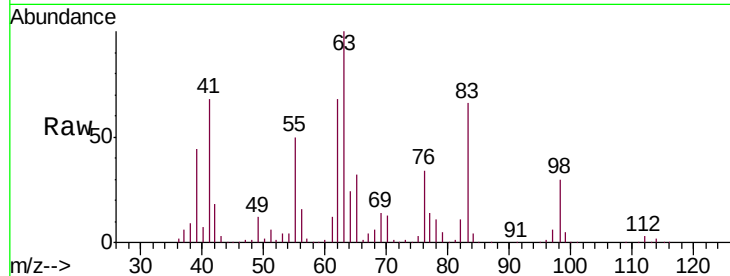




#37
 1,2-Dichloropropane
 Concen: 198.911 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

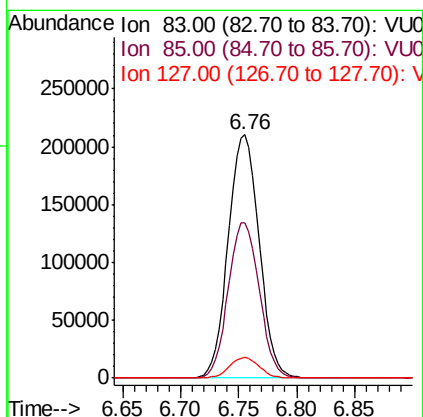
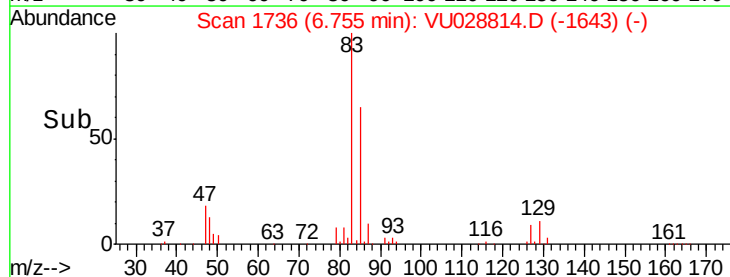
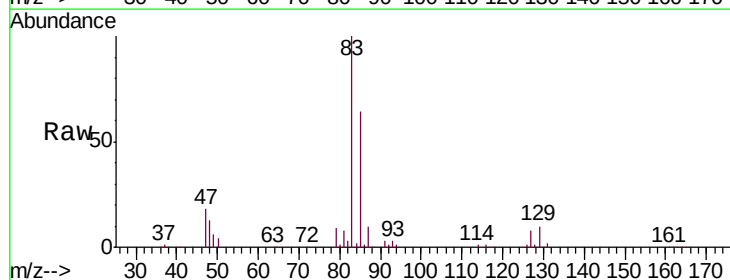
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20059

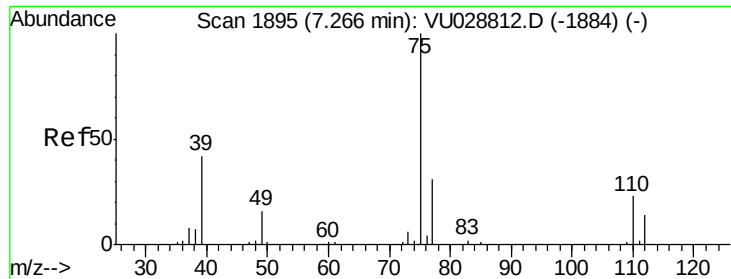
Tgt Ion: 63 Resp: 347812
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.7 4.1



#38
 Bromodichloromethane
 Concen: 201.416 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 83 Resp: 390017
 Ion Ratio Lower Upper
 83 100
 85 64.0 45.4 84.2
 127 8.4 6.2 9.2

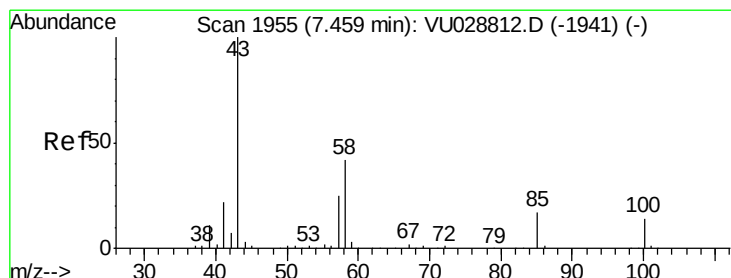
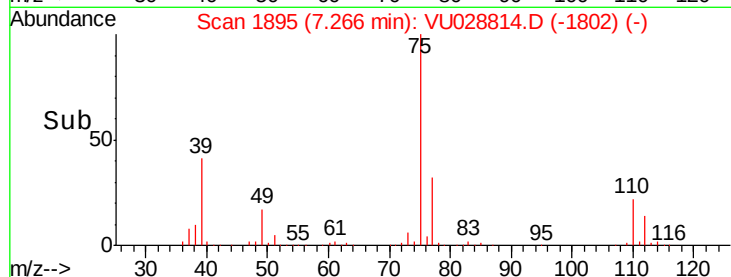
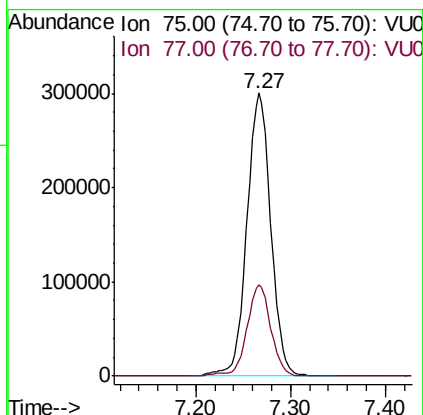
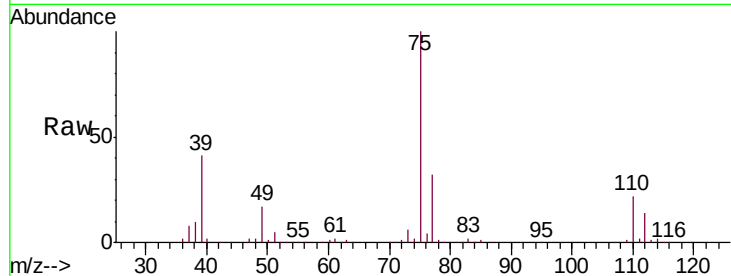




#39
 cis-1,3-Dichloropropene
 Concen: 211.630 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

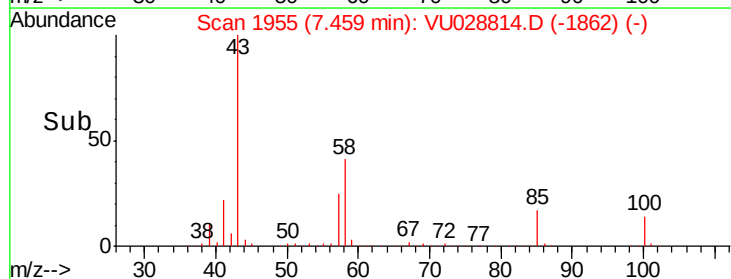
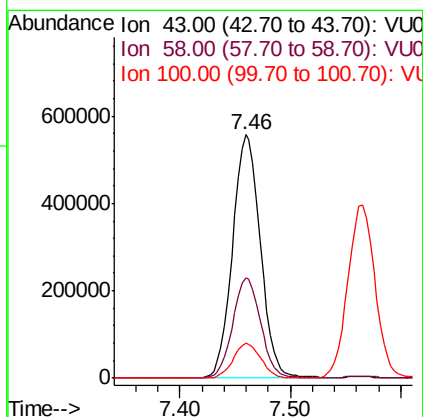
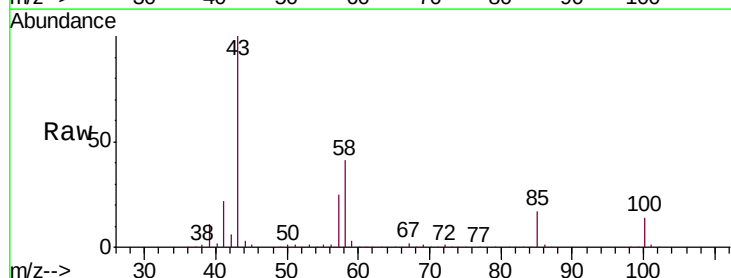
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20059

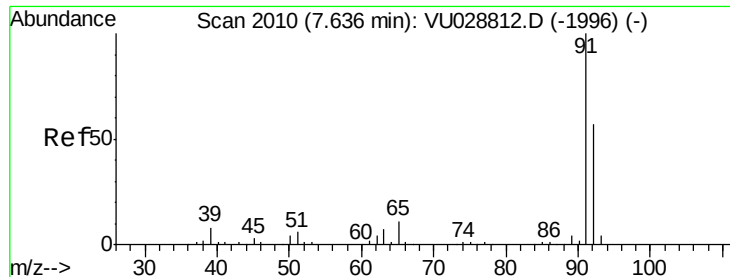
Tgt Ion: 75 Resp: 527569
 Ion Ratio Lower Upper
 75 100
 77 32.5 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 414.857 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 43 Resp: 975028
 Ion Ratio Lower Upper
 43 100
 58 41.4 33.1 49.7
 100 14.2 11.5 17.3





#42

Toluene

Concen: 205.424 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

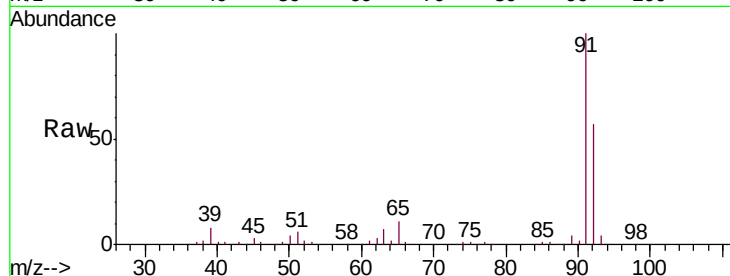
VSTD20059

Tgt Ion: 91 Resp: 1302579

Ion Ratio Lower Upper

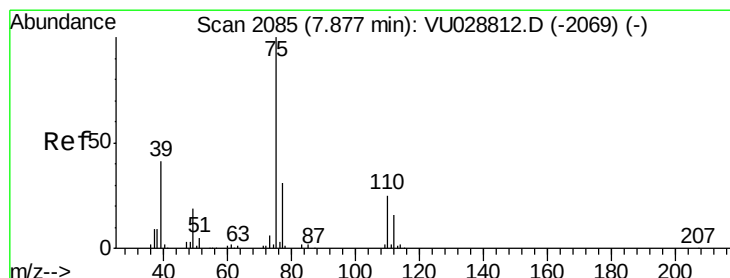
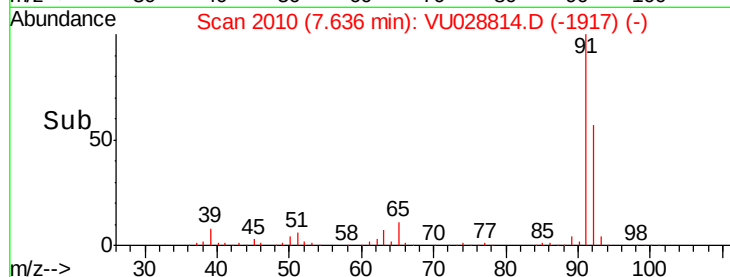
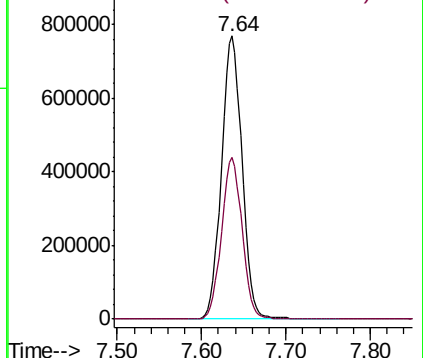
91 100

92 57.2 39.9 74.1



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: 212.710 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028814.D

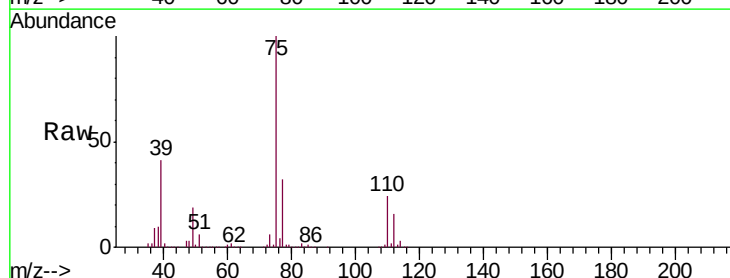
Acq: 20 Dec 2018 10:58

Tgt Ion: 75 Resp: 472676

Ion Ratio Lower Upper

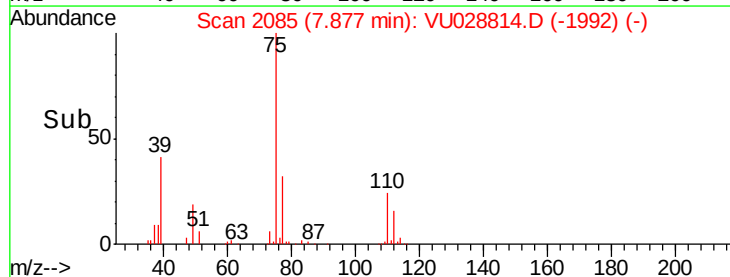
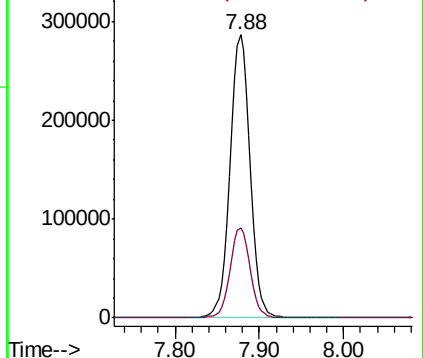
75 100

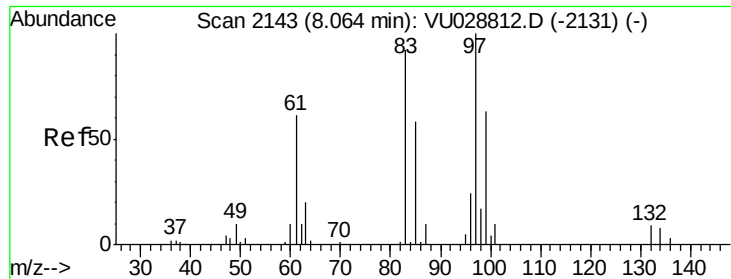
77 31.8 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

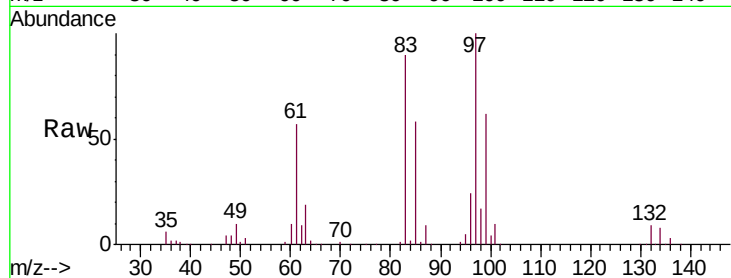




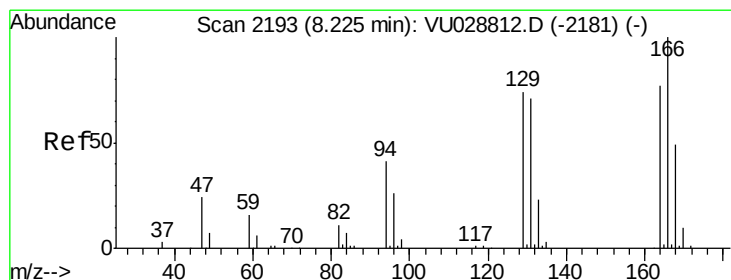
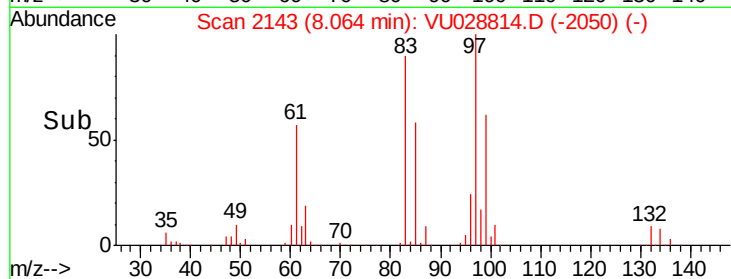
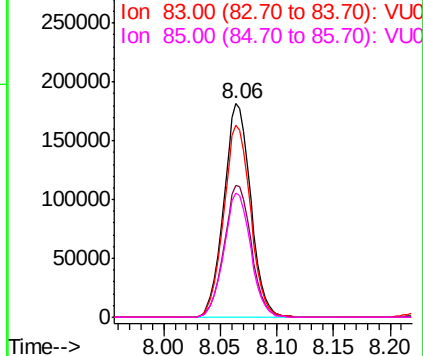
#45
 1,1,2-Trichloroethane
 Concen: 200.381 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20059

Tgt Ion:	97	Resp:	299581
Ion	Ratio	Lower	Upper
97	100		
99	61.9	44.2	82.2
83	90.1	64.5	119.9
85	58.4	40.9	75.9

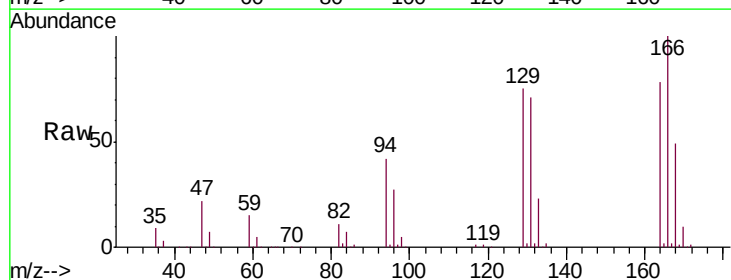


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

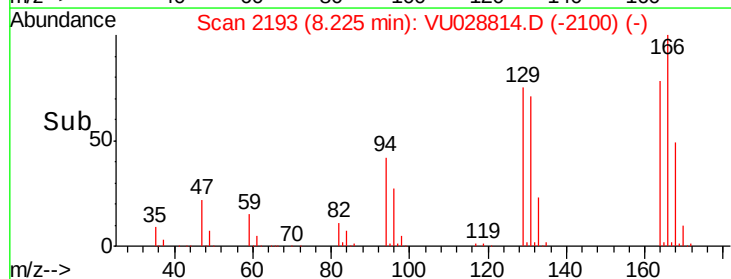
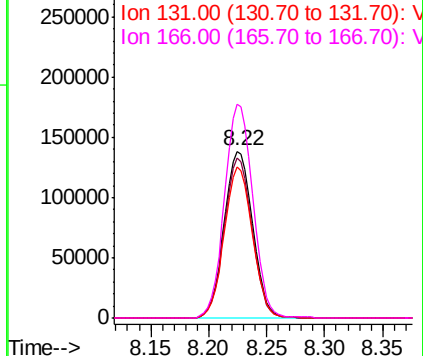


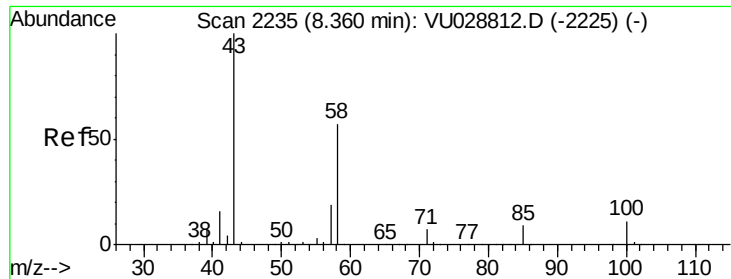
#46
 Tetrachloroethene
 Concen: 201.341 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Tgt Ion:	164	Resp:	234178
Ion	Ratio	Lower	Upper
164	100		
129	95.7	66.8	124.0
131	90.6	64.2	119.2
166	128.1	90.8	168.6



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

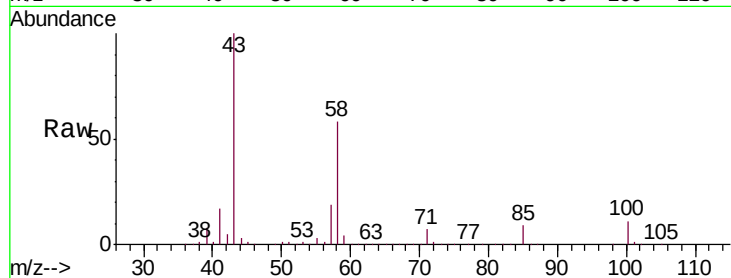




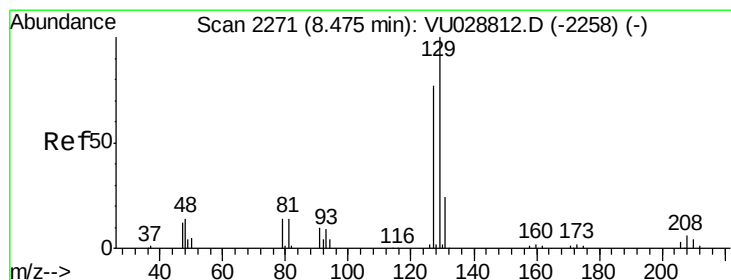
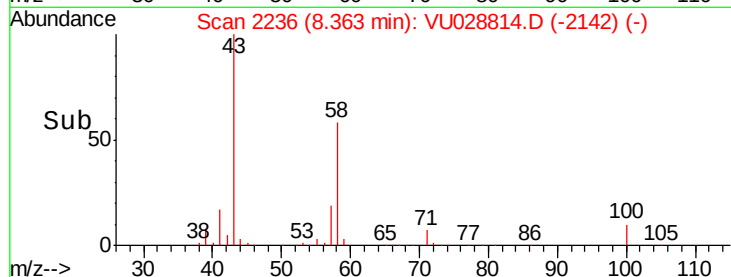
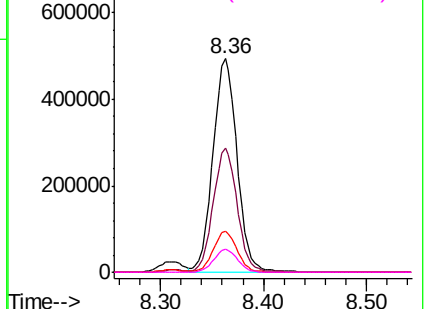
#48
2-Hexanone
Concen: 414.301 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD20059

Tgt Ion: 43 Resp: 799189
Ion Ratio Lower Upper
43 100
58 58.0 45.9 68.9
57 18.8 15.0 22.4
100 10.7 8.7 13.1

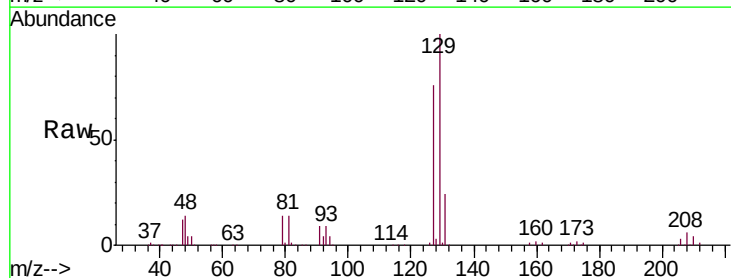


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

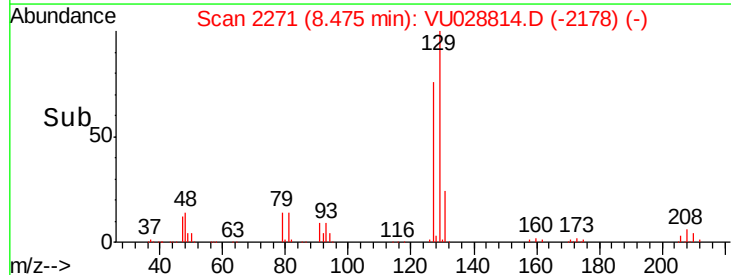
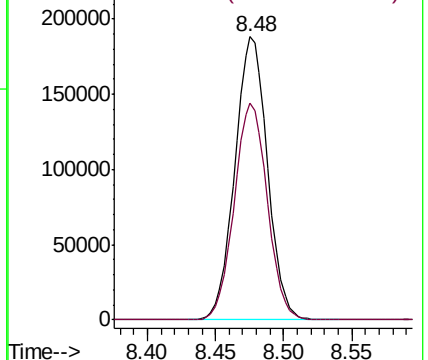


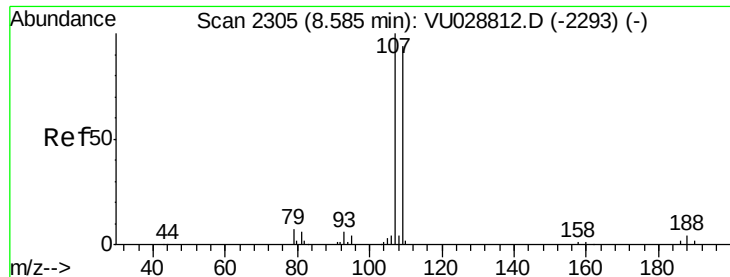
#49
Dibromochloromethane
Concen: 209.278 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 129 Resp: 311651
Ion Ratio Lower Upper
129 100
127 76.4 54.1 100.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

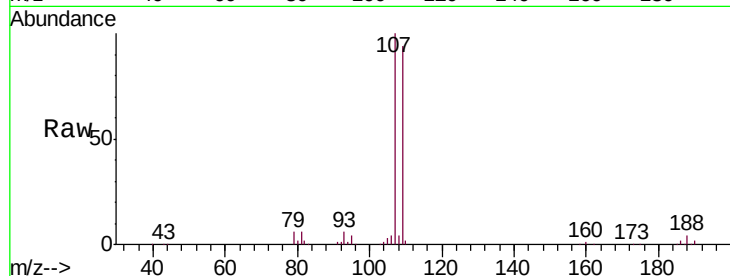




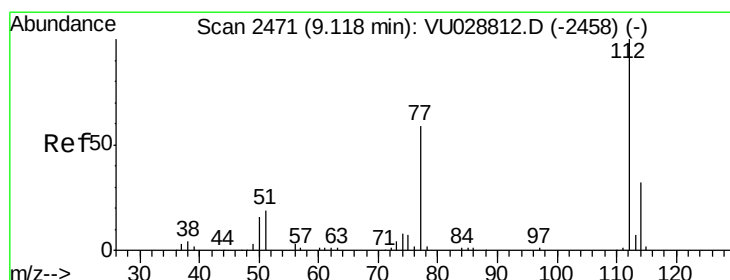
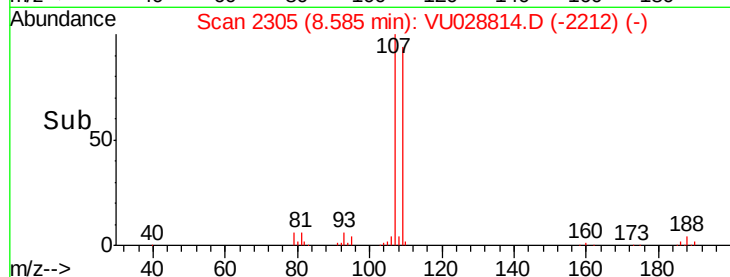
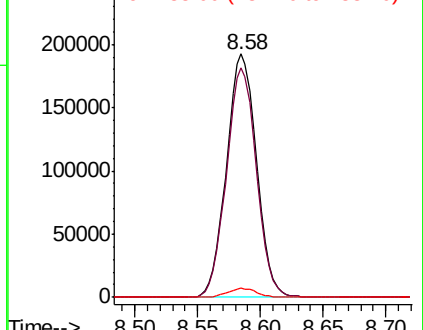
#50
1,2-Dibromoethane
Concen: 205.581 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD20059

Tgt Ion:107 Resp: 319783
Ion Ratio Lower Upper
107 100
109 94.2 66.0 122.6
188 3.6 3.1 4.7

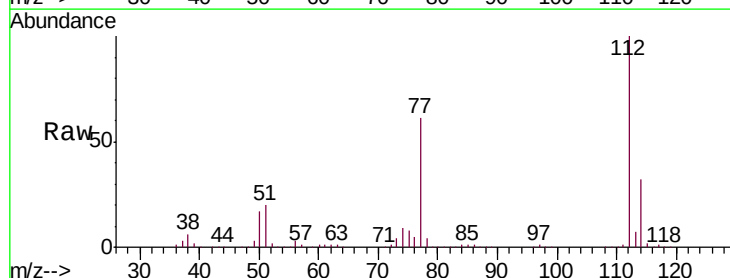


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

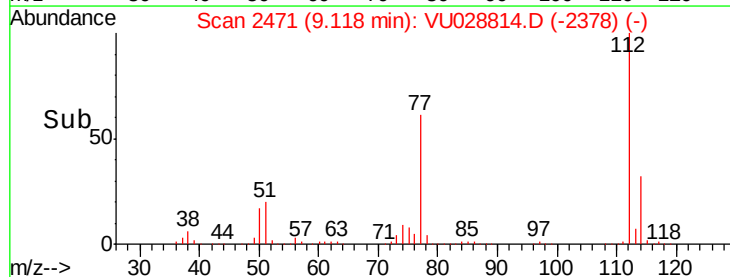
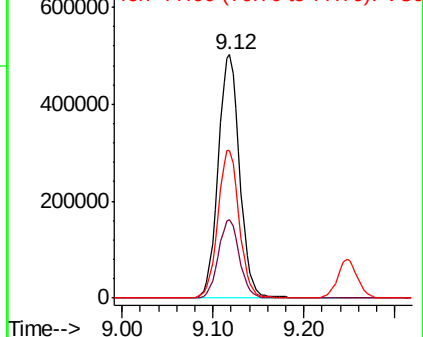


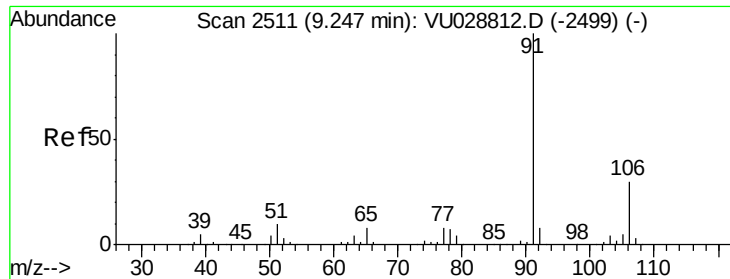
#51
Chlorobenzene
Concen: 205.300 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028814.D
Acq: 20 Dec 2018 10:58

Tgt Ion:112 Resp: 820441
Ion Ratio Lower Upper
112 100
114 32.0 22.2 41.2
77 60.7 47.8 71.8



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): VU0





#52

Ethylbenzene

Concen: 211.608 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

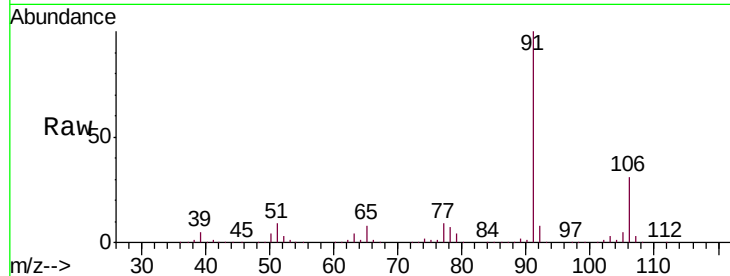
VSTD20059

Tgt Ion: 91 Resp: 1441770

Ion Ratio Lower Upper

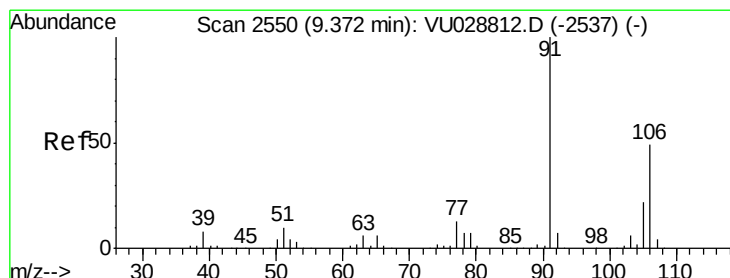
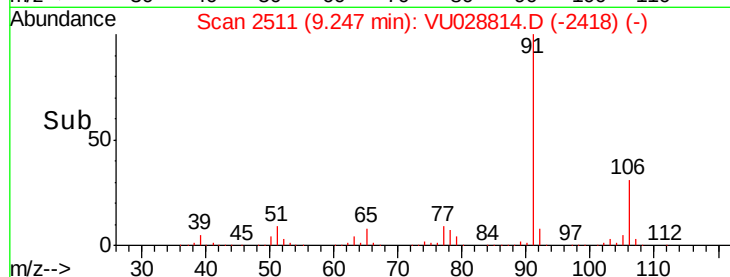
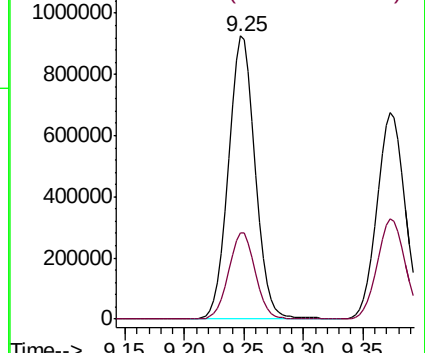
91 100

106 30.7 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 214.388 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028814.D

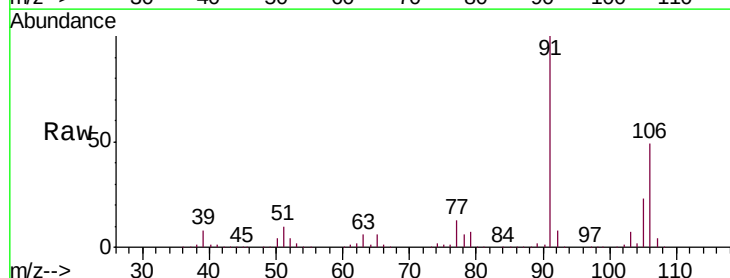
Acq: 20 Dec 2018 10:58

Tgt Ion: 106 Resp: 540153

Ion Ratio Lower Upper

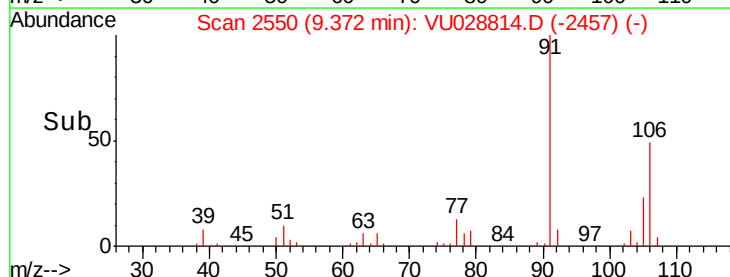
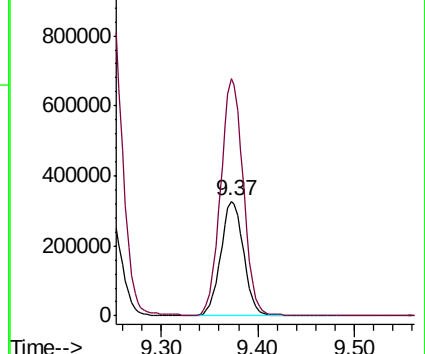
106 100

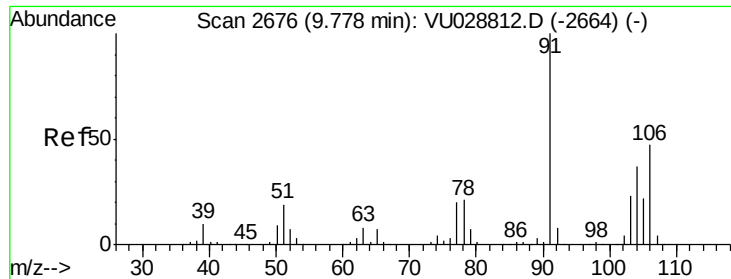
91 205.9 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54

o-xylene

Concen: 213.198 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

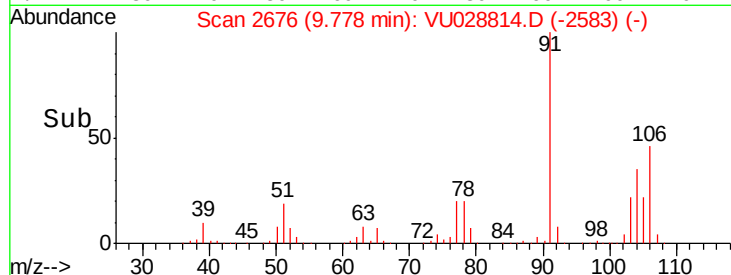
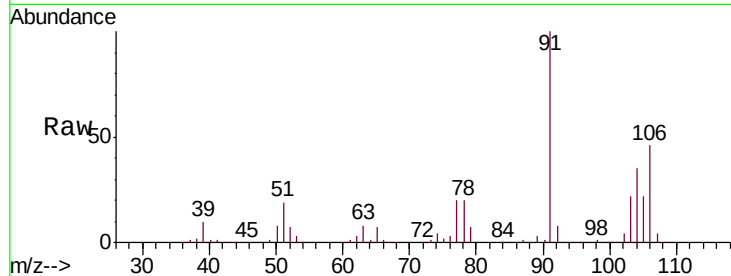
VSTD20059

Tgt Ion:106 Resp: 538368

Ion Ratio Lower Upper

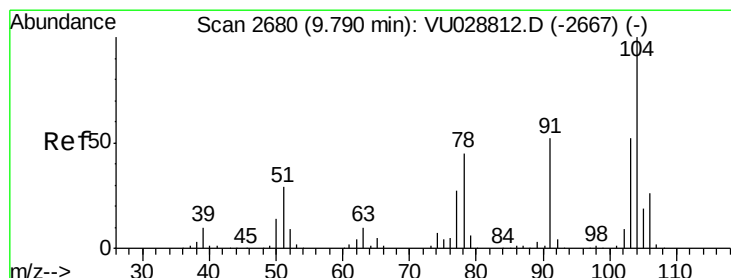
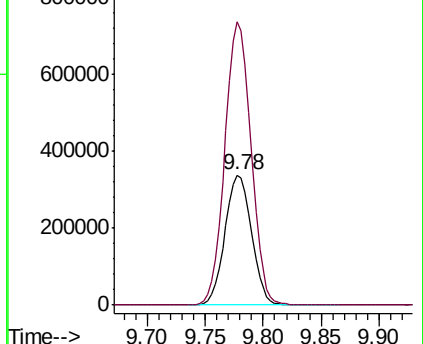
106 100

91 217.4 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 221.231 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028814.D

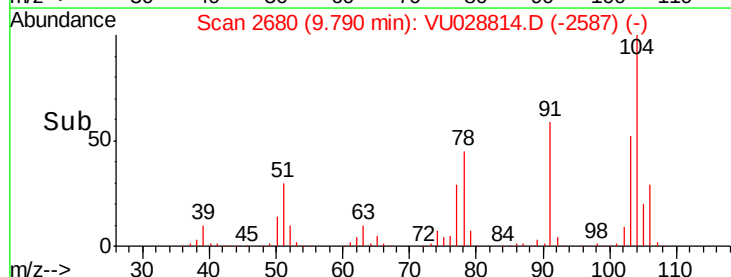
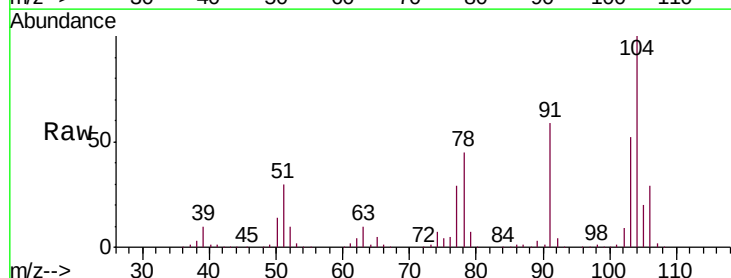
Acq: 20 Dec 2018 10:58

Tgt Ion:104 Resp: 946148

Ion Ratio Lower Upper

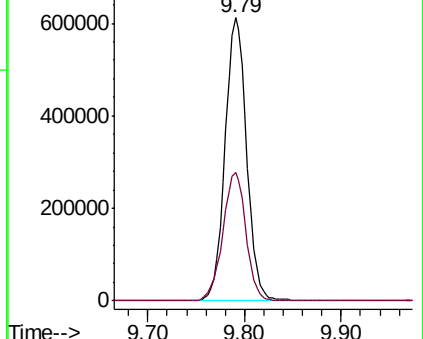
104 100

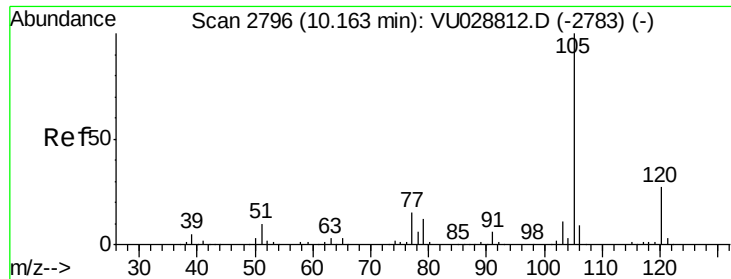
78 45.4 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 215.722 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD20059

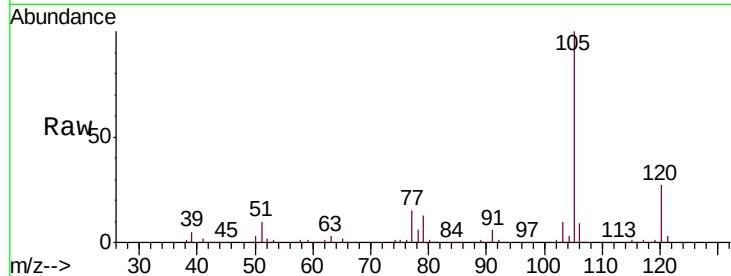
Tgt Ion:105 Resp: 1381893

Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.2

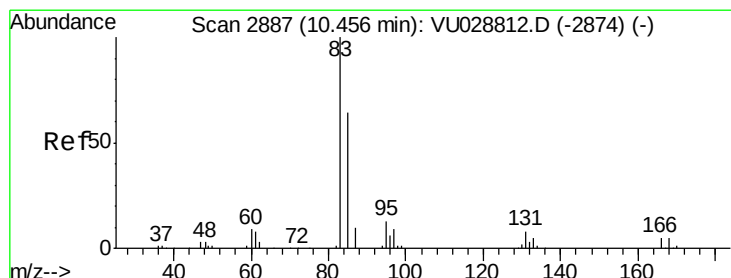
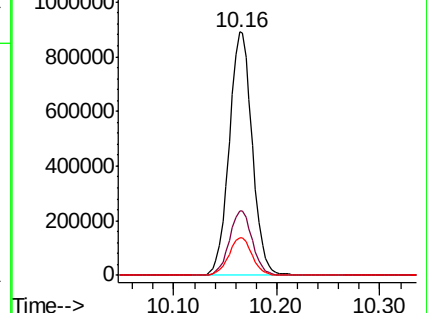
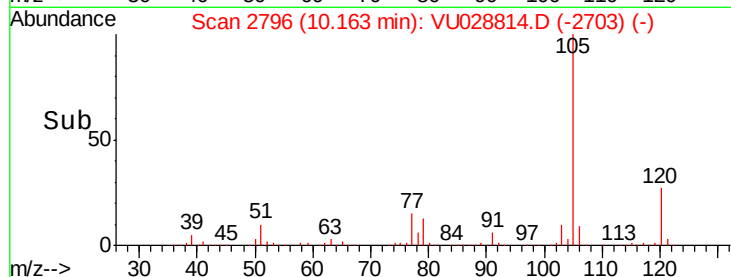
77 15.5 12.3 18.5



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: 208.103 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

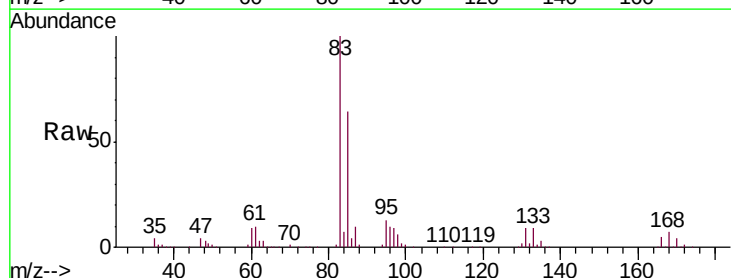
Tgt Ion: 83 Resp: 565210

Ion Ratio Lower Upper

83 100

85 64.2 45.3 84.1

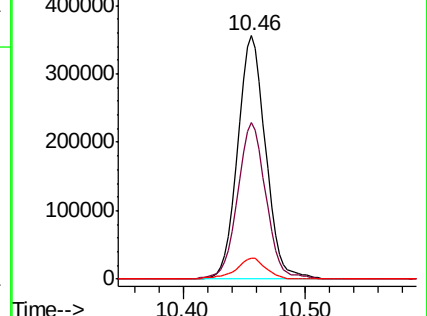
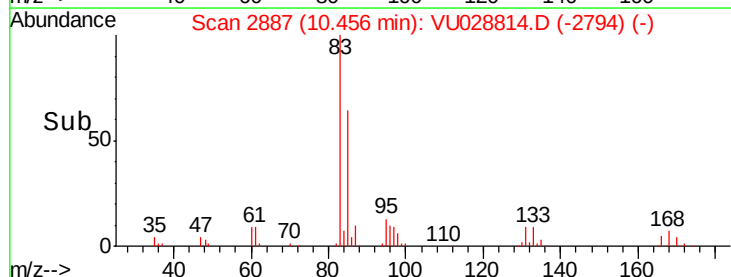
131 8.8 6.7 10.1

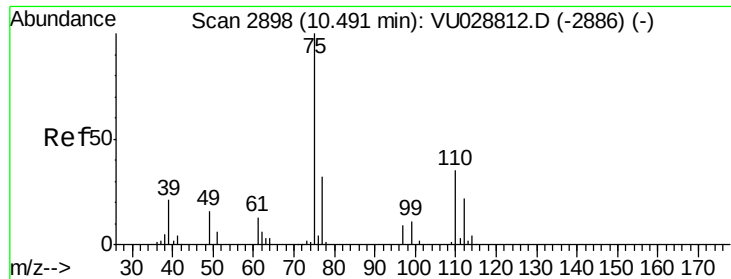


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V

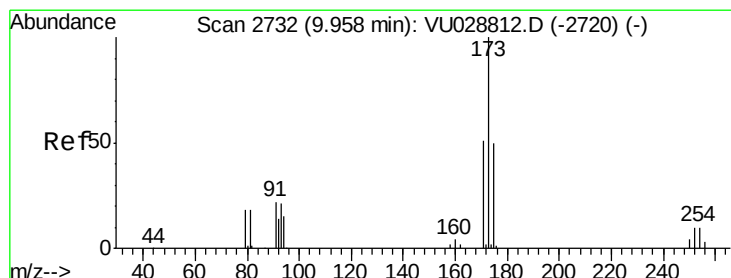
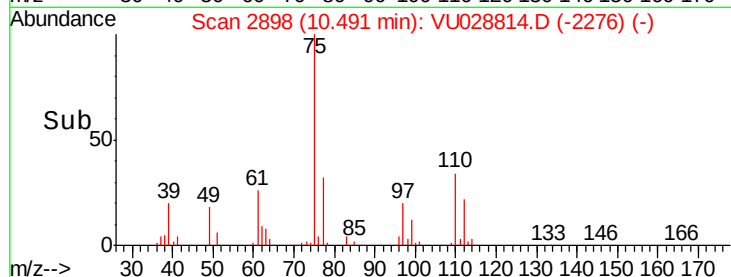
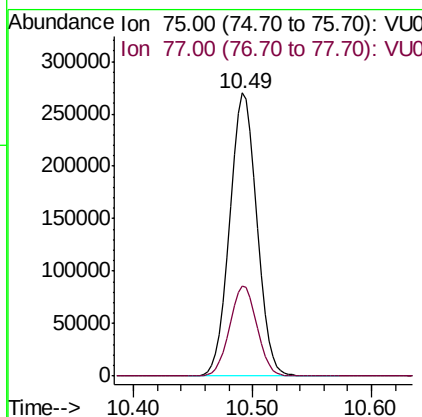
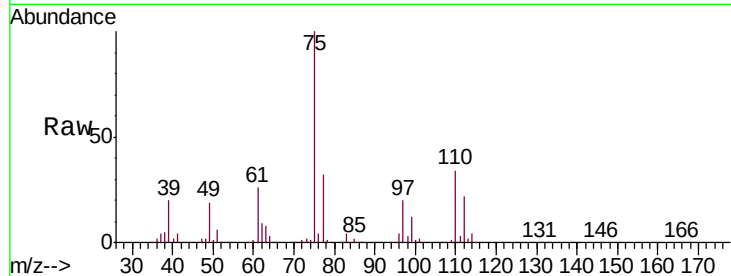




#59
 1,2,3-Trichloropropane
 Concen: 204.422 ug/L
 RT: 10.49 min Scan# 2898
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

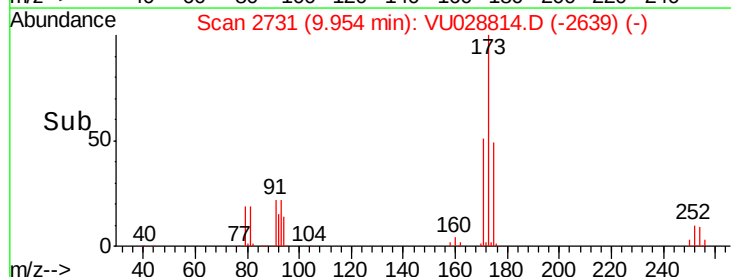
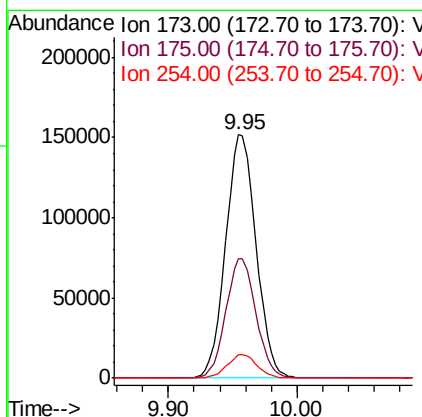
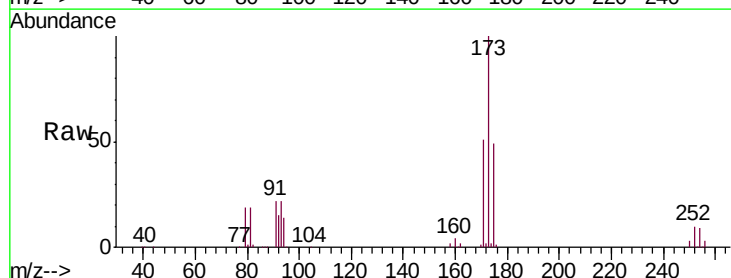
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20059

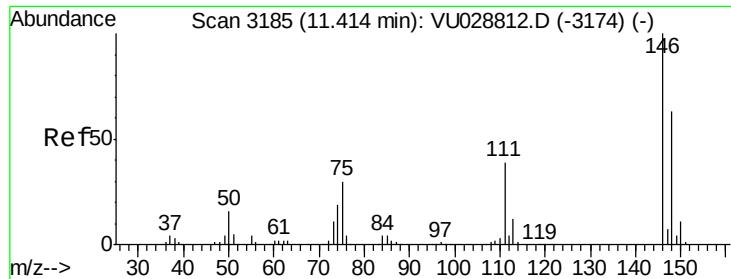
Tgt Ion: 75 Resp: 426563
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.5 38.3



#61
 Bromoform
 Concen: 198.321 ug/L
 RT: 9.95 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 173 Resp: 248593
 Ion Ratio Lower Upper
 173 100
 175 48.4 38.9 58.3
 254 9.6 7.8 11.8

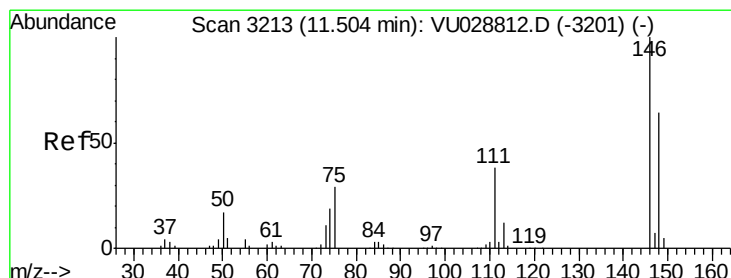
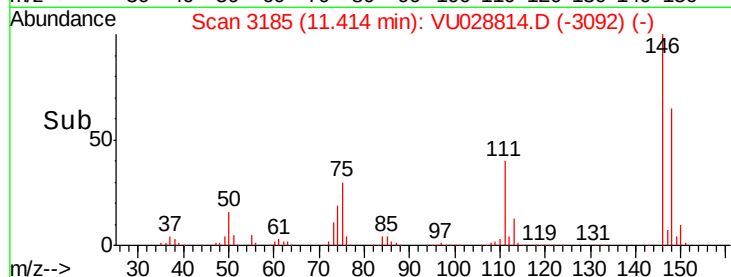
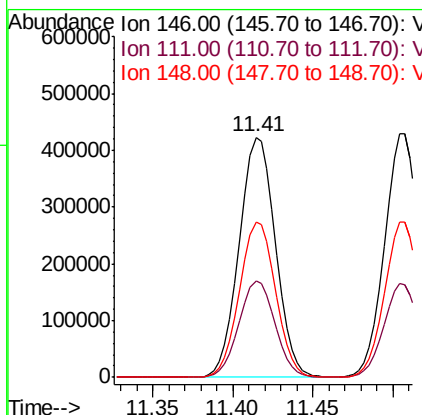
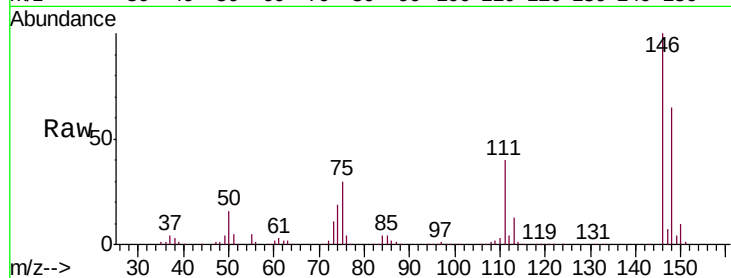




#62
 1,3-Dichlorobenzene
 Concen: 202.585 ug/L
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

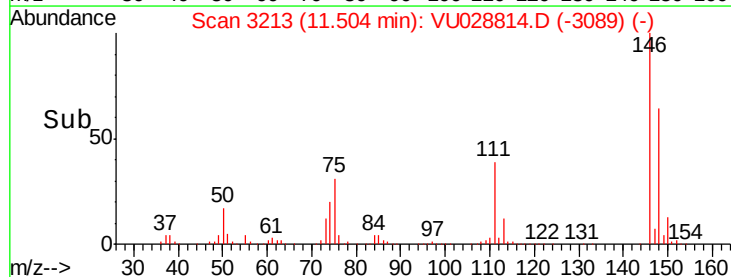
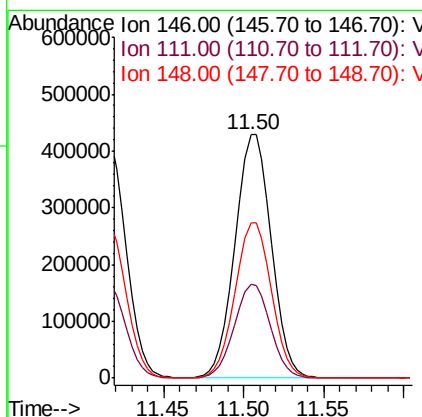
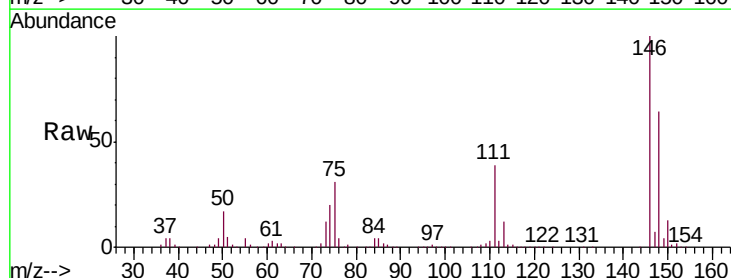
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20059

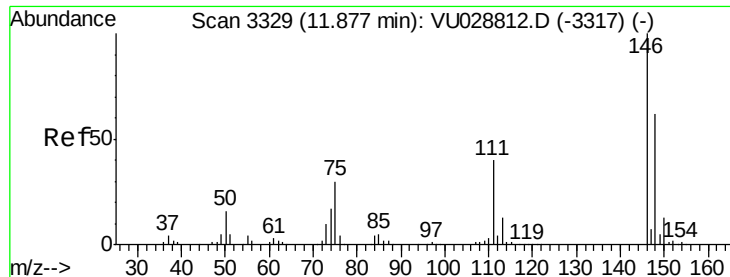
Tgt Ion:146 Resp: 650729
 Ion Ratio Lower Upper
 146 100
 111 40.1 27.4 50.8
 148 64.6 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 199.808 ug/L
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Tgt Ion:146 Resp: 661246
 Ion Ratio Lower Upper
 146 100
 111 38.5 26.5 49.1
 148 63.7 45.1 83.9

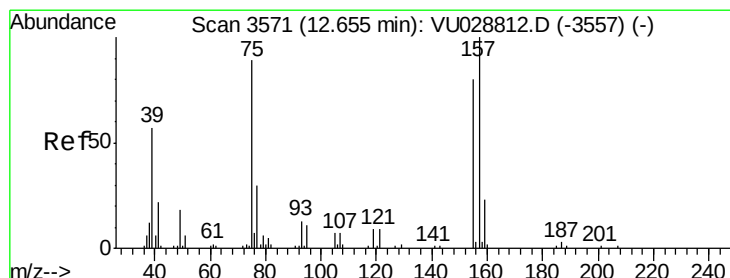
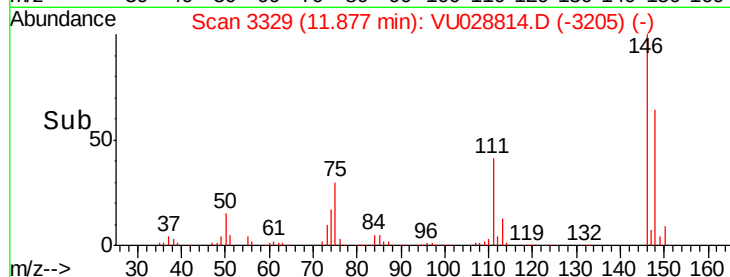
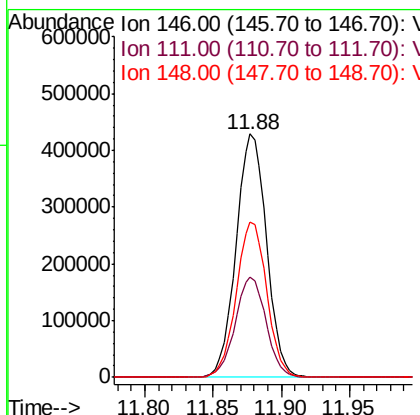
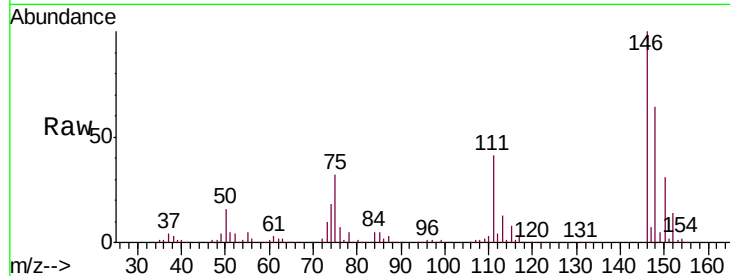




#65
 1,2-Dichlorobenzene
 Concen: 198.338 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

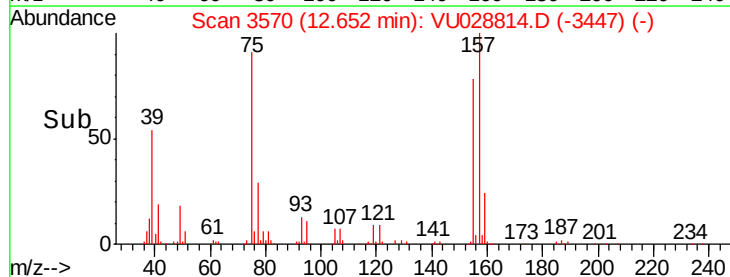
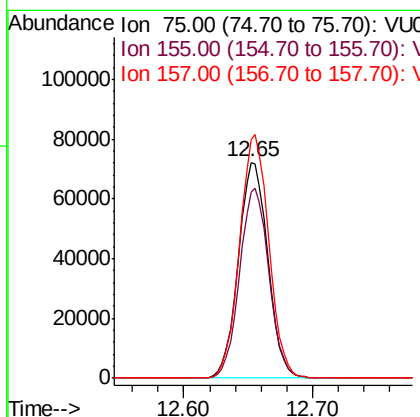
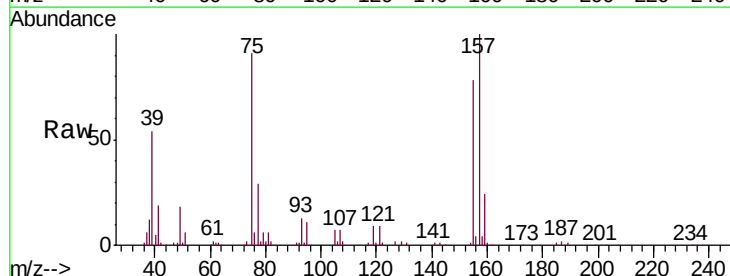
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20059

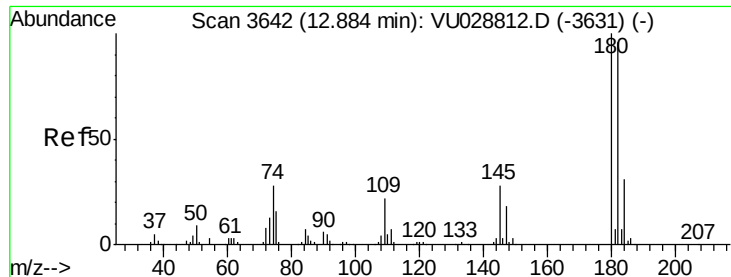
Tgt Ion: 146 Resp: 664585
 Ion Ratio Lower Upper
 146 100
 111 41.4 32.1 48.1
 148 63.8 49.7 74.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 198.491 ug/L
 RT: 12.65 min Scan# 3570
 Delta R.T. -0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 75 Resp: 114725
 Ion Ratio Lower Upper
 75 100
 155 86.2 71.4 107.2
 157 110.3 89.6 134.4

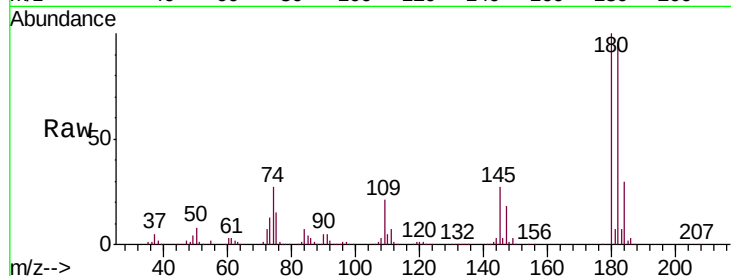




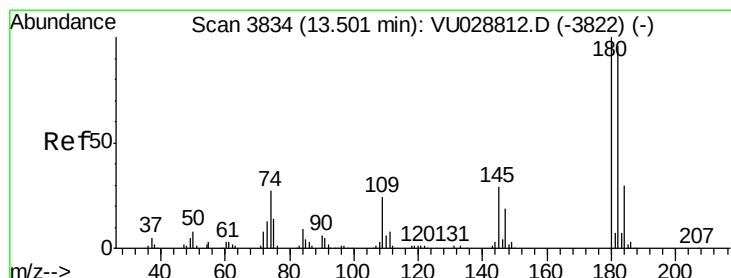
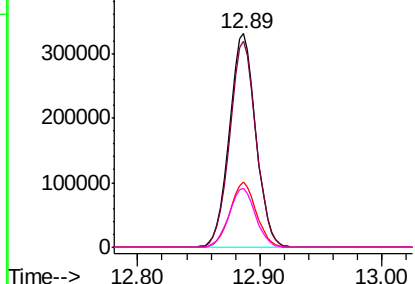
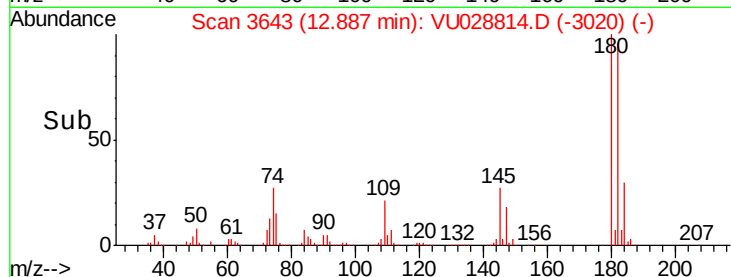
#67
 1,3,5-Trichlorobenzene
 Concen: 211.040 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20059

Tgt Ion:180 Resp: 499810
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.4 114.6
 184 30.4 24.6 36.8
 145 27.7 22.1 33.1

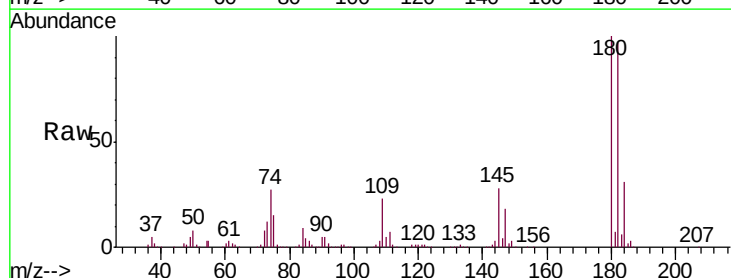


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

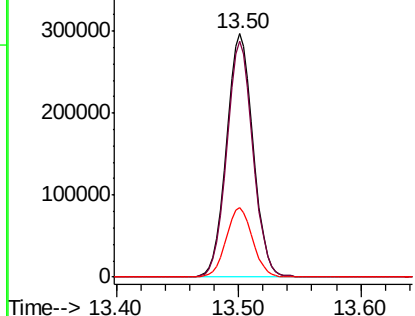
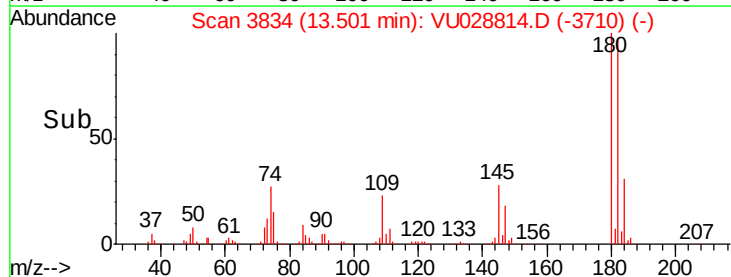


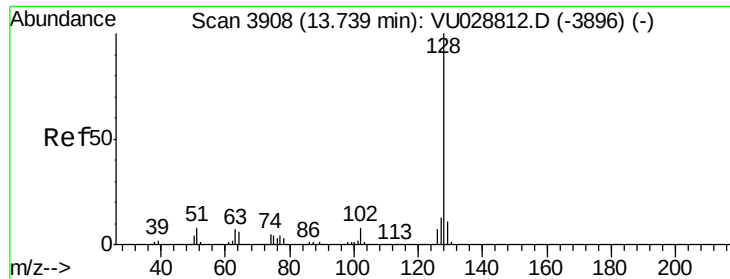
#68
 1,2,4-trichlorobenzene
 Concen: 228.855 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028814.D
 Acq: 20 Dec 2018 10:58

Tgt Ion:180 Resp: 453874
 Ion Ratio Lower Upper
 180 100
 182 95.3 77.4 116.0
 145 28.2 23.5 35.3



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: 221.235 ug/L

RT: 13.74 min Scan# 3908

Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD20059

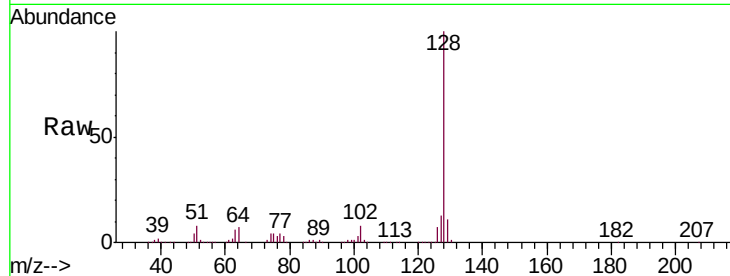
Tgt Ion:128 Resp: 1523324

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

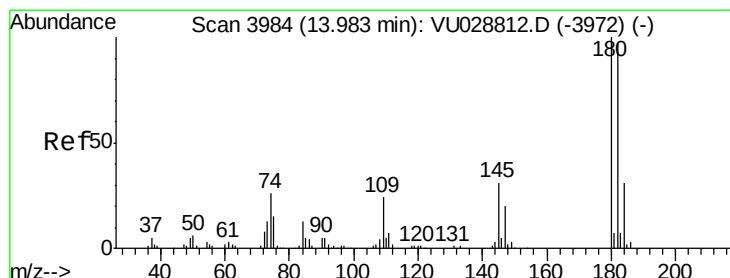
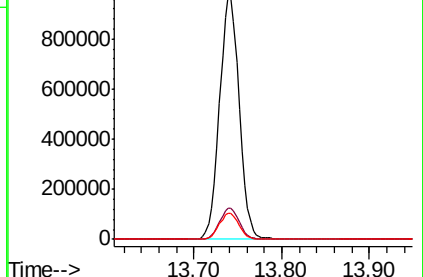
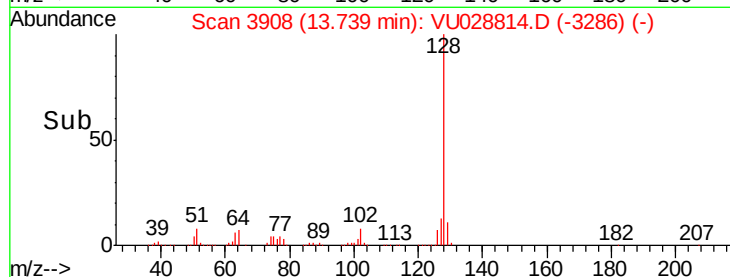
129 10.8 8.7 13.1



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: 213.398 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028814.D

Acq: 20 Dec 2018 10:58

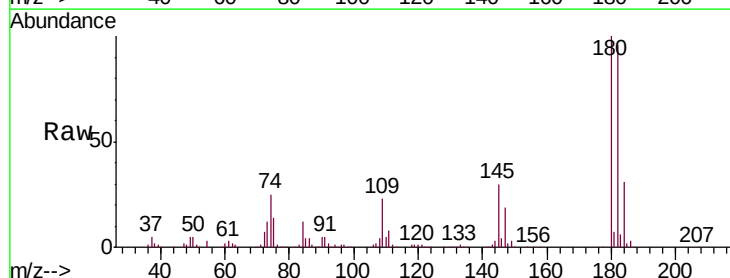
Tgt Ion:180 Resp: 456357

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.8

145 30.2 24.5 36.7



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

