

Data File : VU029536.D
Acq On : 18 Feb 2019 17:43
Operator : JC/SP
Sample : K1522-03
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0AM4

Quant Time: Feb 19 00:24:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Feb 19 00:19:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	211105	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	204950	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	110018	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	59281	4.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.60%
7) Chloroethane-d5	1.68	69	53384	4.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.20%
11) 1,1-Dichloroethene-d2	2.27	63	110647	3.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.80%
20) 2-Butanone-d5	4.19	46	151215	51.28	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.56%
24) Chloroform-d	4.65	84	98921	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.80%
26) 1,2-Dichloroethane-d4	5.31	65	59215	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
32) Benzene-d6	5.34	84	228355	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
36) 1,2-Dichloropropane-d6	6.33	67	70867	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.40%
41) Toluene-d8	7.56	98	223335	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
43) trans-1,3-Dichloropropene-	7.85	79	28788	4.43	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.60%
46) 2-Hexanone-d5	8.31	63	156512	52.26	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.52%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	63525	5.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	98679	4.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.20%

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	17544	1.006	ug/L 97
8) Chloroethane	1.70	64	1448	0.109	ug/L # 67
9) Trichlorofluoromethane	1.89	101	101548	3.263	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	1269	0.069	ug/L # 28
12) 1,1-Dichloroethene	2.29	96	29792	1.715	ug/L # 81
13) Acetone	2.32	43	5689	2.123	ug/L 95
15) Methyl Acetate	2.45	43	20628	3.006	ug/L # 47
19) 1,1-Dichloroethane	3.43	63	1744	0.062	ug/L 97
22) cis-1,2-Dichloroethene	4.22	96	8971	0.526	ug/L 95
25) Chloroform	4.67	83	18461	0.661	ug/L 96
27) 1,2-Dichloroethane	5.41	62	48787	3.019	ug/L 97
29) 1,1,1-Trichloroethane	4.91	97	33224	1.311	ug/L 98
31) Carbon tetrachloride	4.91	117	4577	0.200	ug/L 95
33) Benzene	5.39	78	7695	0.128	ug/L 100
34) Trichloroethene	6.18	95	2528015	149.041	ug/L 97
35) Methylcyclohexane	6.33	83	17671	0.619	ug/L # 21
37) 1,2-Dichloropropane	6.33	63	7470	0.494	ug/L # 87

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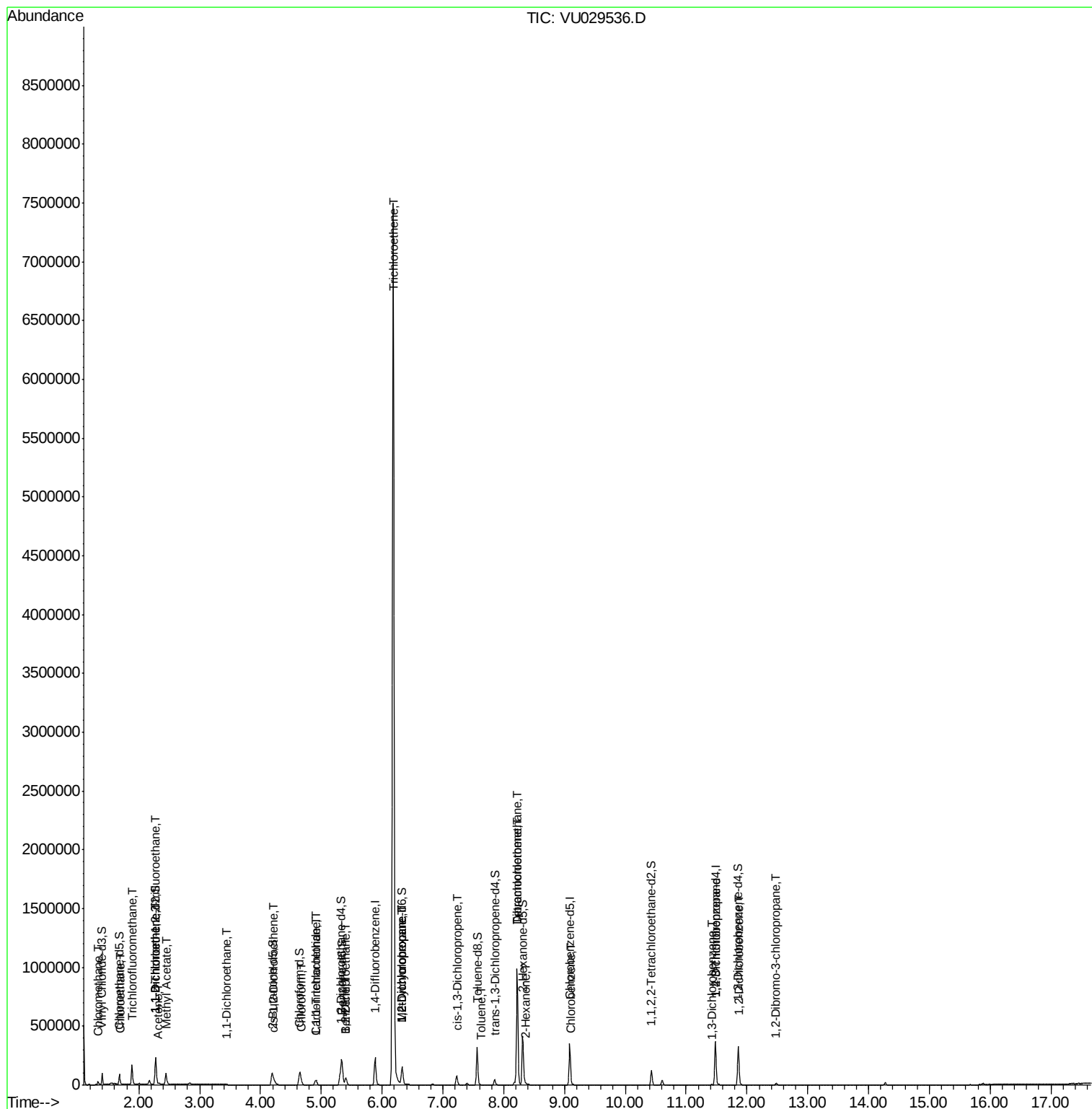
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.23	75	2159	0.091	ug/L #	64
42) Toluene	7.64	91	2241	0.033	ug/L #	74
47) Tetrachloroethene	8.22	164	235087	15.131	ug/L	99
48) 2-Hexanone	8.37	43	2110	0.332	ug/L #	89
49) Dibromochloromethane	8.22	129	209888	13.455	ug/L #	11
51) Chlorobenzene	9.12	112	2376	0.051	ug/L	94
59) 1,2,3-Trichloropropane	11.48	75	11801	1.218	ug/L	95
62) 1,3-Dichlorobenzene	11.41	146	3001	0.077	ug/L	93
65) 1,2-Dichlorobenzene	11.88	146	2018	0.055	ug/L #	92
66) 1,2-Dibromo-3-chloropropan	12.48	75	525	0.229	ug/L #	1

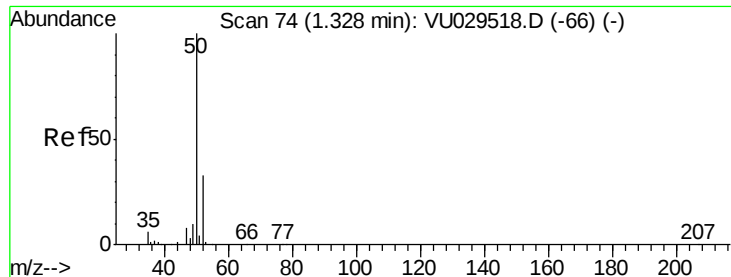
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 1.006 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

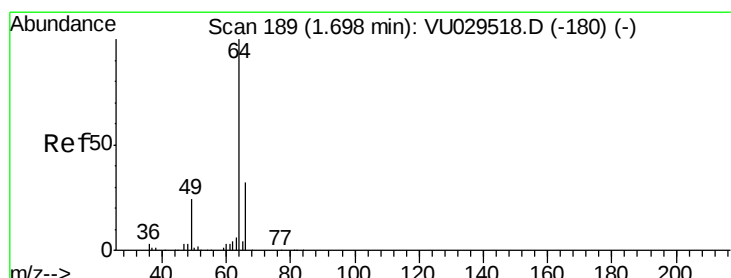
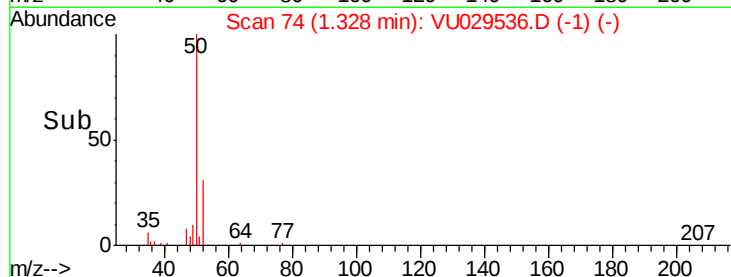
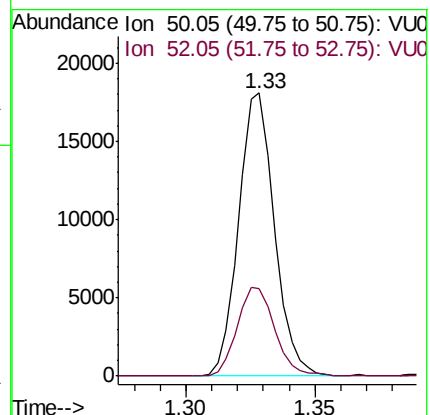
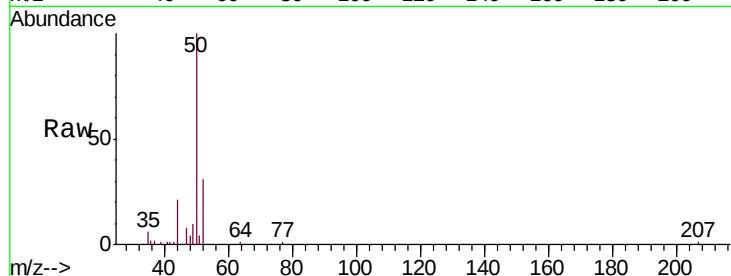
C0AM4

Tgt Ion: 50 Resp: 17544

Ion Ratio Lower Upper

50 100

52 31.1 23.1 42.9



#8

Chloroethane

Concen: 0.109 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029536.D

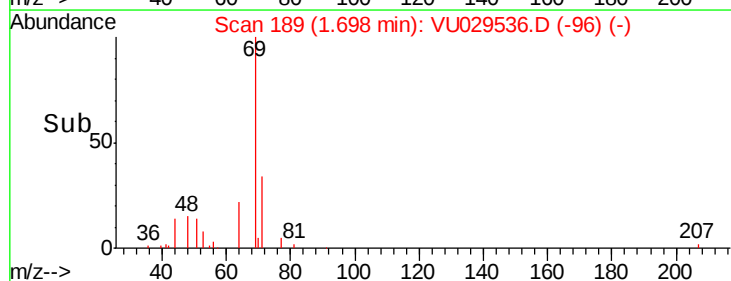
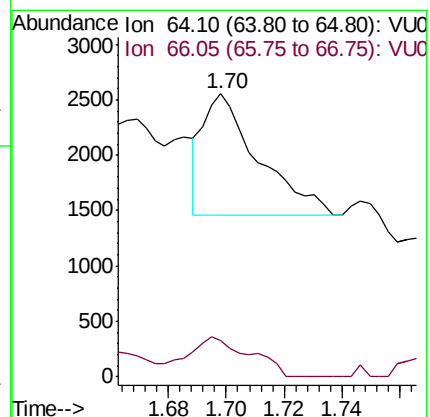
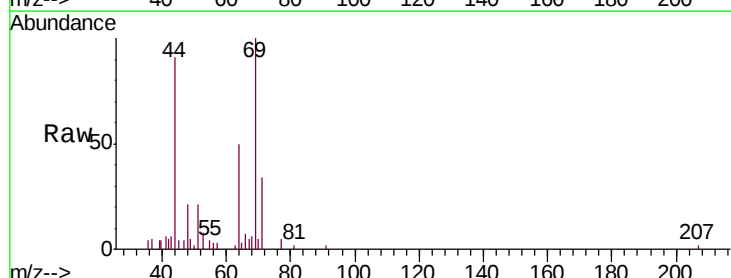
Acq: 18 Feb 2019 17:43

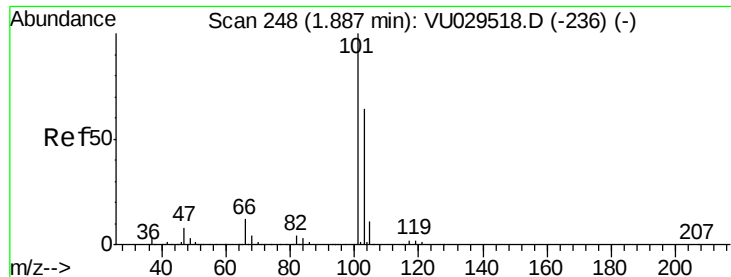
Tgt Ion: 64 Resp: 1448

Ion Ratio Lower Upper

64 100

66 13.0 22.0 40.8#





#9

Trichlorofluoromethane

Concen: 3.263 ug/L

RT: 1.89 min Scan# 248

Delta R.T. 0.00 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

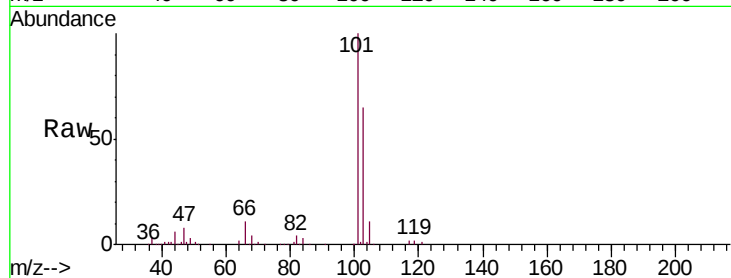
C0AM4

Tgt Ion:101 Resp: 101548

Ion Ratio Lower Upper

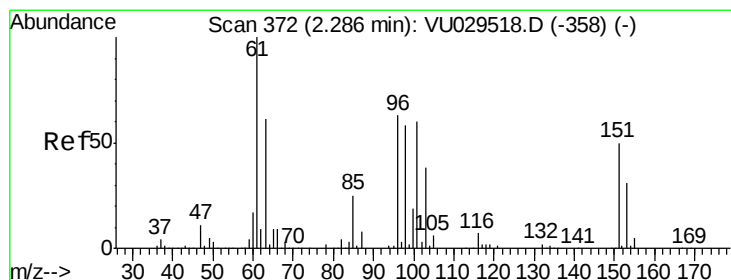
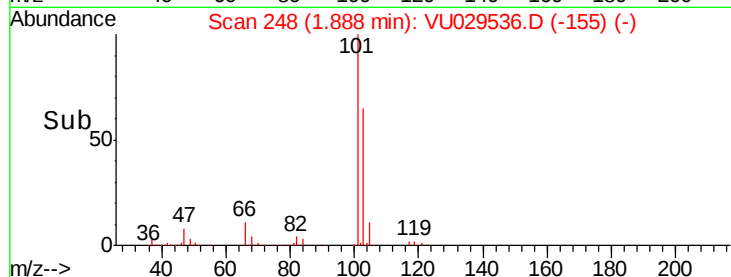
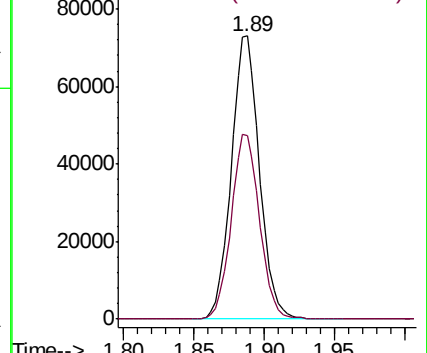
101 100

103 65.7 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

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

Concen: 0.069 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

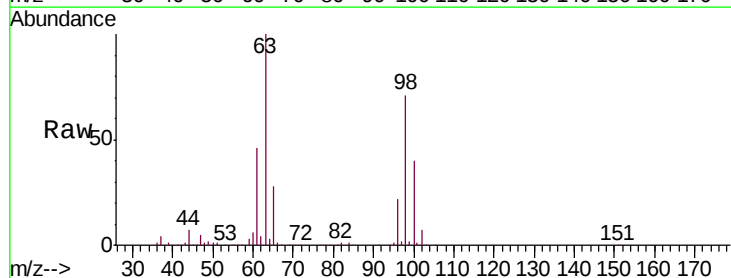
Tgt Ion:101 Resp: 1269

Ion Ratio Lower Upper

101 100

85 3.7 35.1 52.7#

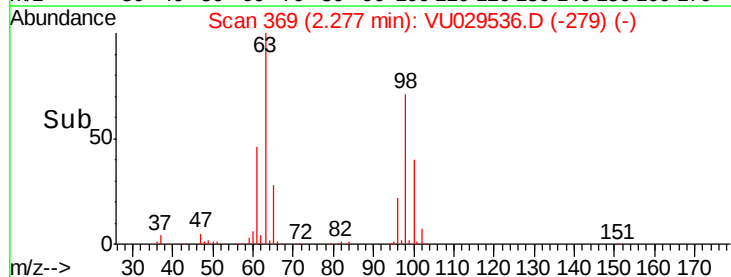
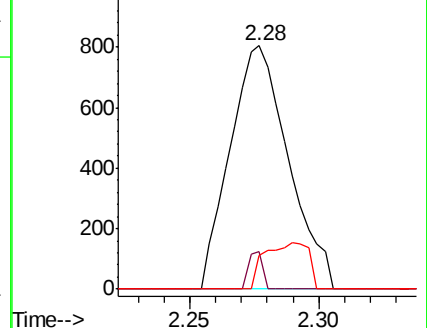
151 14.3 67.0 100.6#

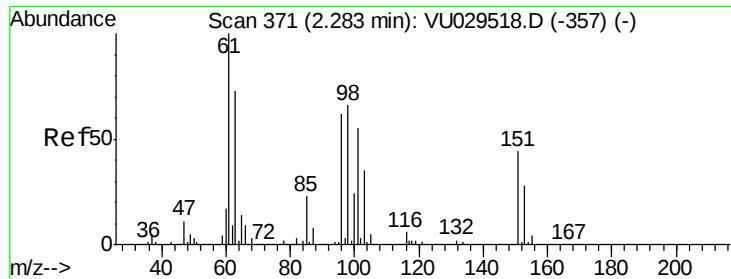


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

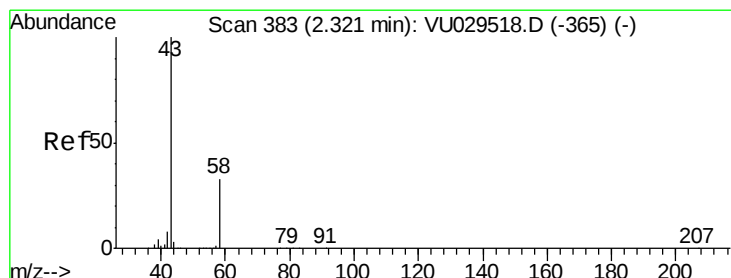
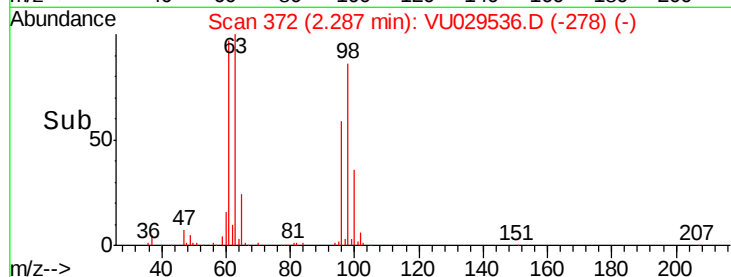
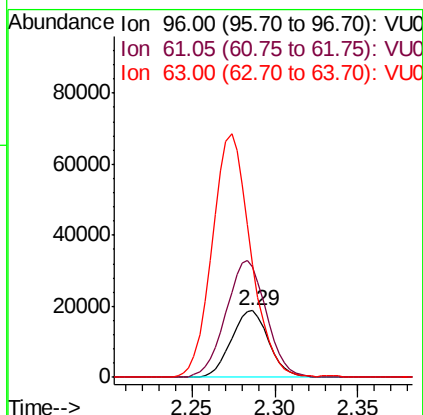
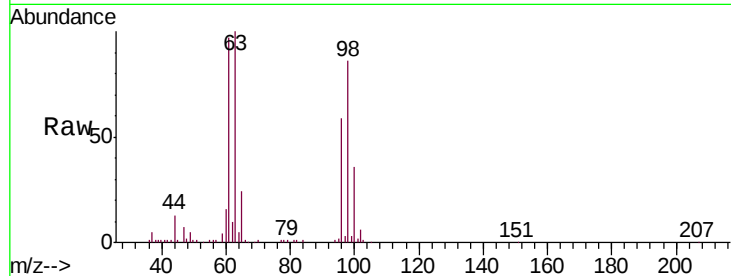




#12
 1,1-Dichloroethene
 Concen: 1.715 ug/L
 RT: 2.29 min Scan# 372
 Delta R.T. 0.00 min
 Lab File: VU029536.D
 Acq: 18 Feb 2019 17:43

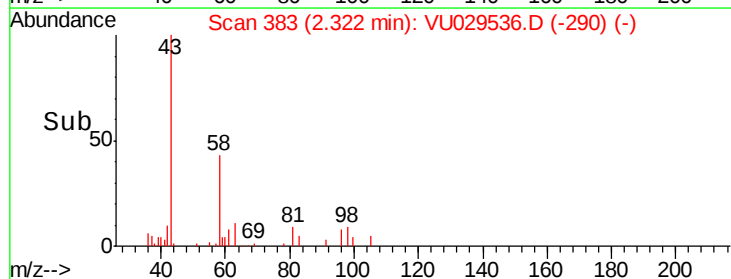
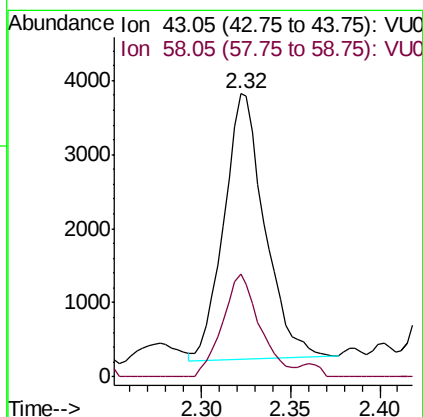
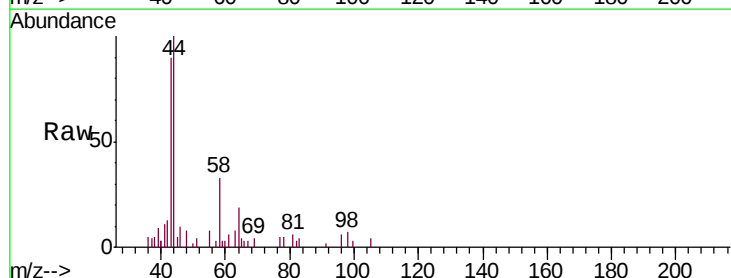
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AM4

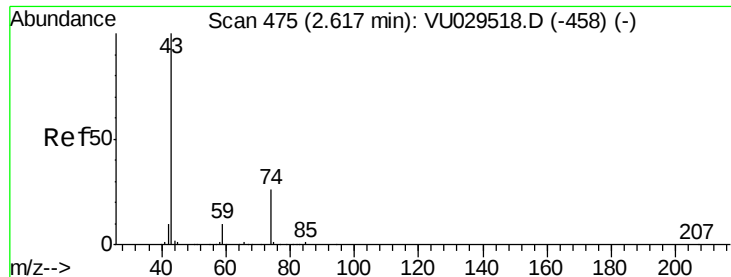
Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.6	115.1	213.7
63	170.2	83.5	155.1



#13
 Acetone
 Concen: 2.123 ug/L
 RT: 2.32 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VU029536.D
 Acq: 18 Feb 2019 17:43

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.4	0.0	65.0

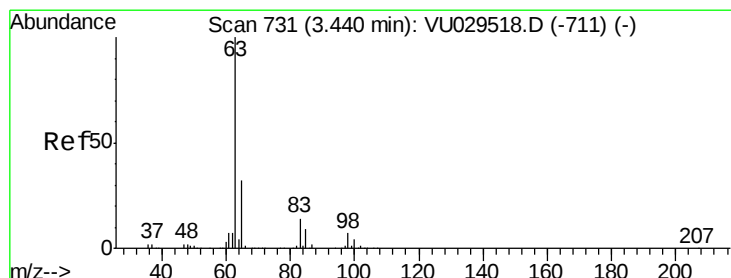
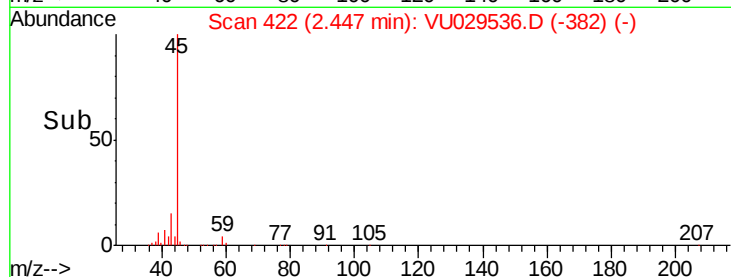
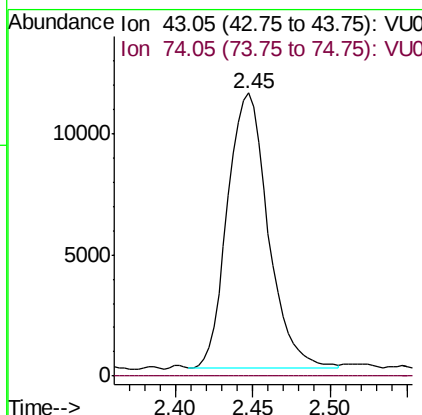
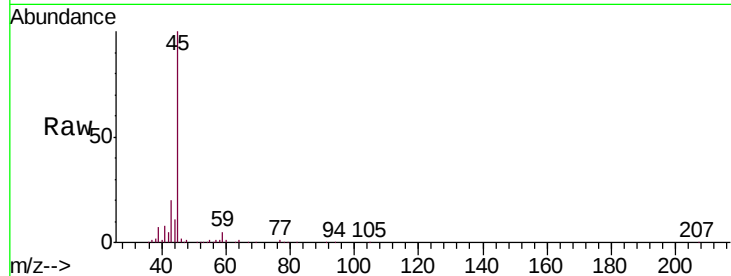




#15
Methyl Acetate
Concen: 3.006 ug/L
RT: 2.45 min Scan# 422
Delta R.T. -0.17 min
Lab File: VU029536.D
Acq: 18 Feb 2019 17:43

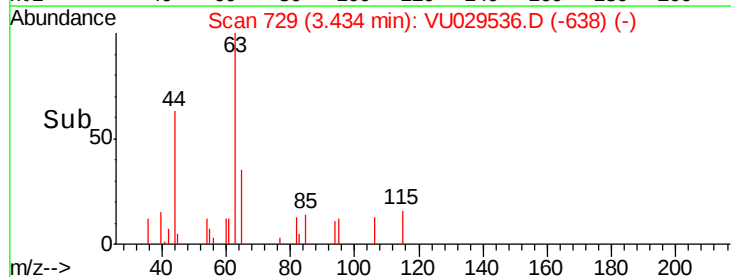
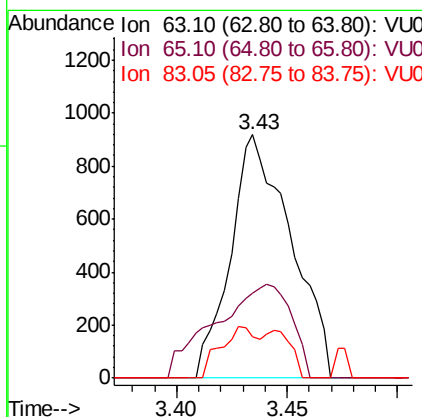
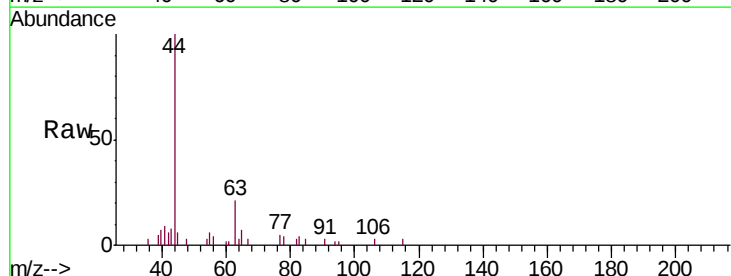
Instrument :
MSVOA_U
ClientSampleId :
C0AM4

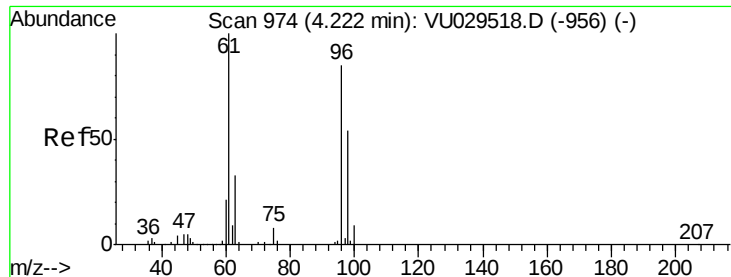
Tgt Ion: 43 Resp: 20628
Ion Ratio Lower Upper
43 100
74 0.0 22.3 33.5#



#19
1,1-Dichloroethane
Concen: 0.062 ug/L
RT: 3.43 min Scan# 729
Delta R.T. -0.01 min
Lab File: VU029536.D
Acq: 18 Feb 2019 17:43

Tgt Ion: 63 Resp: 1744
Ion Ratio Lower Upper
63 100
65 34.9 23.5 43.7
83 16.9 10.3 19.1



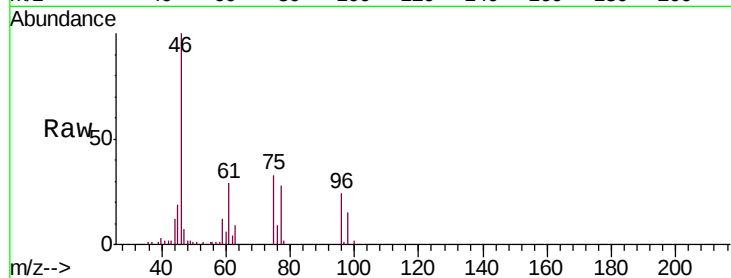


#22

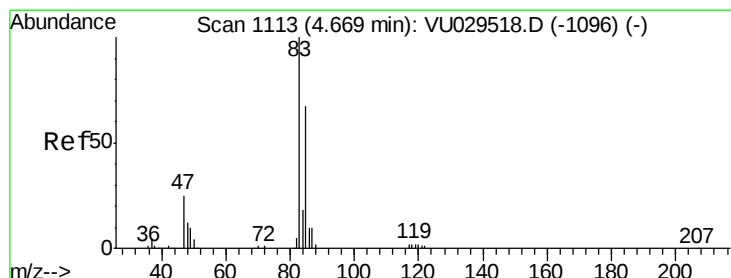
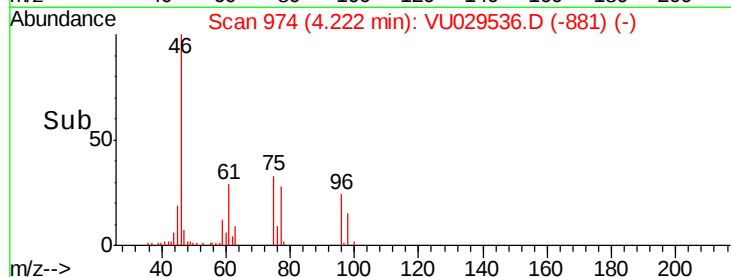
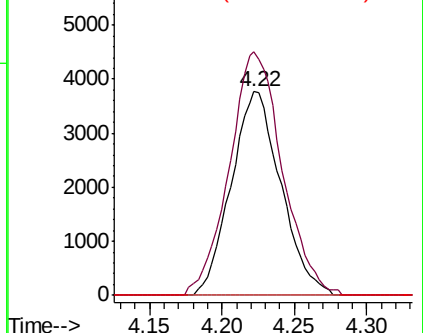
cis-1,2-Dichloroethene
 Concen: 0.526 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029536.D
 Acq: 18 Feb 2019 17:43

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Tgt Ion: 96 Resp: 8971
 Ion Ratio Lower Upper
 96 100
 61 119.7 79.9 148.5
 68 0.0 0.0 0.0



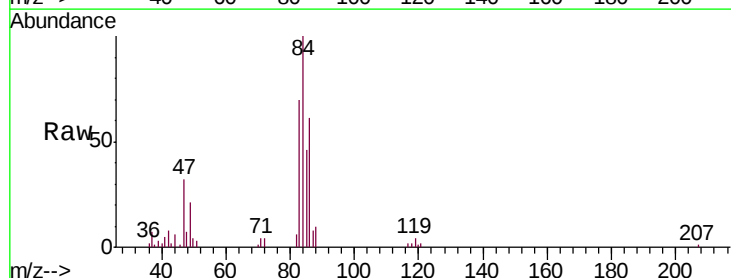
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



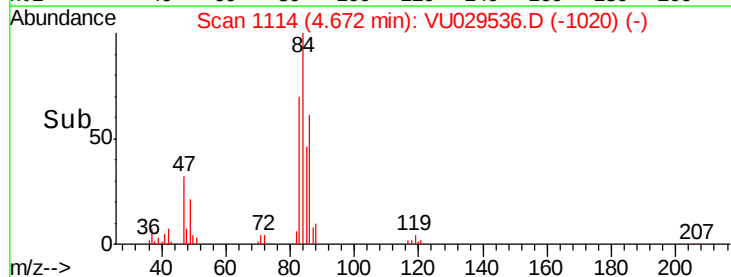
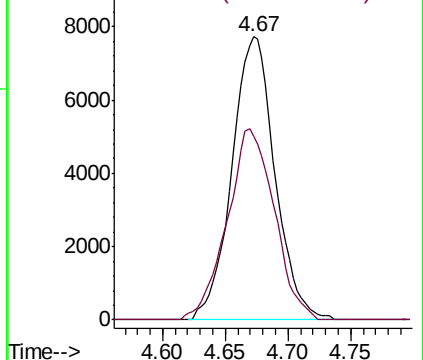
#25

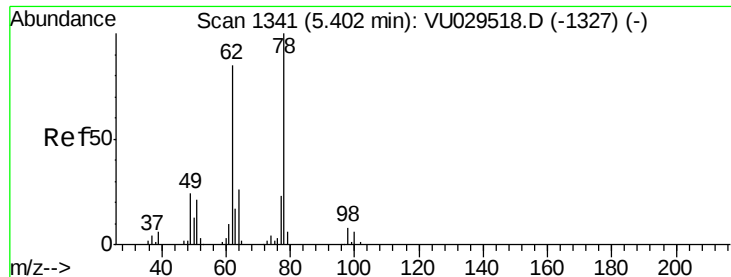
Chloroform
 Concen: 0.661 ug/L
 RT: 4.67 min Scan# 1114
 Delta R.T. 0.00 min
 Lab File: VU029536.D
 Acq: 18 Feb 2019 17:43

Tgt Ion: 83 Resp: 18461
 Ion Ratio Lower Upper
 83 100
 85 65.0 47.8 88.8



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 3.019 ug/L

RT: 5.41 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

Instrument :

MSVOA_U

ClientSampled :

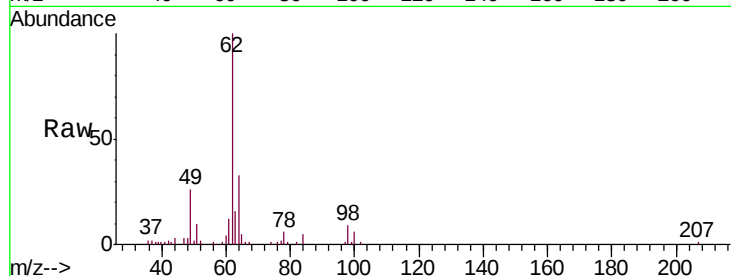
C0AM4

Tgt Ion: 62 Resp: 48787

Ion Ratio Lower Upper

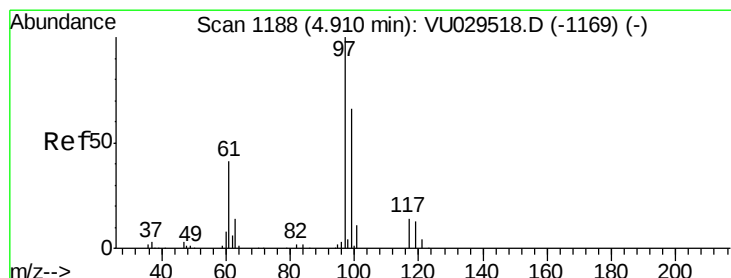
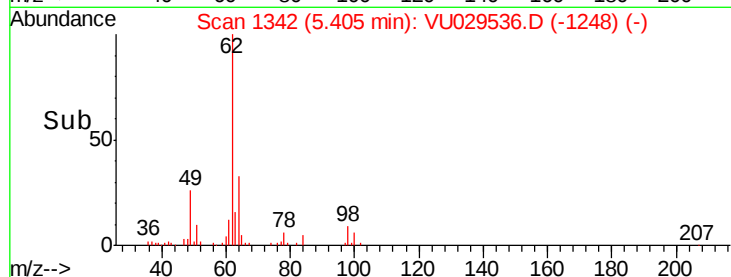
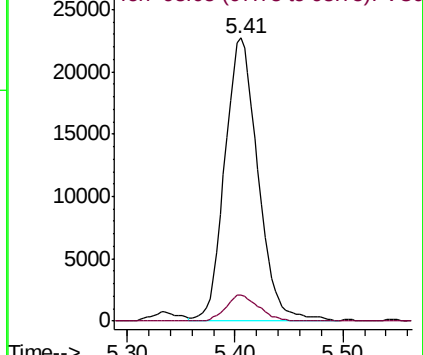
62 100

98 9.4 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0



#29

1,1,1-Trichloroethane

Concen: 1.311 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

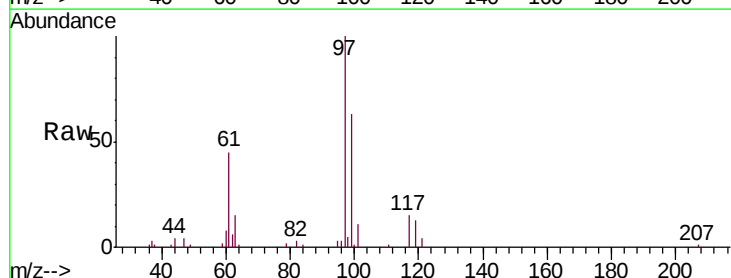
Tgt Ion: 97 Resp: 33224

Ion Ratio Lower Upper

97 100

99 64.4 52.2 78.2

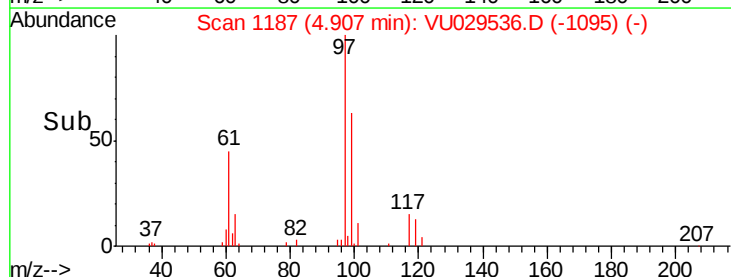
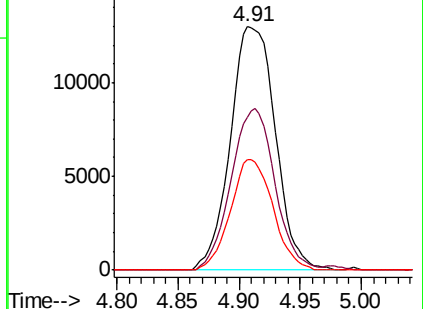
61 42.7 32.0 48.0

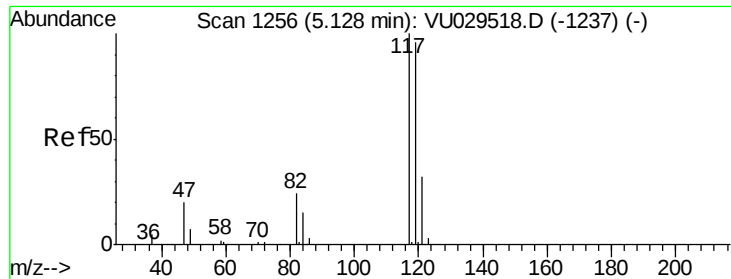


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 0.200 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.22 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

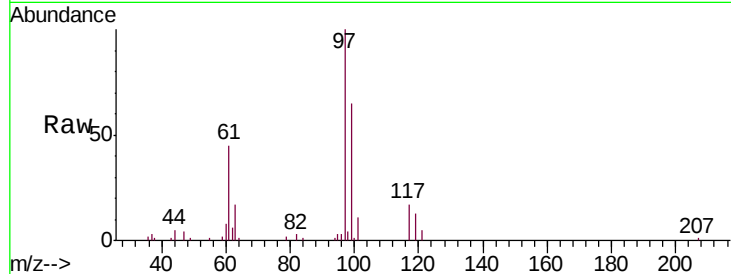
C0AM4

Tgt Ion:117 Resp: 4577

Ion Ratio Lower Upper

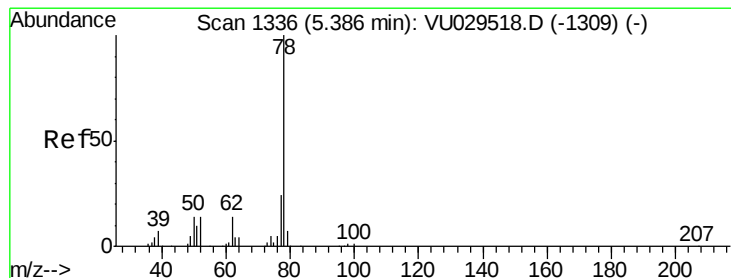
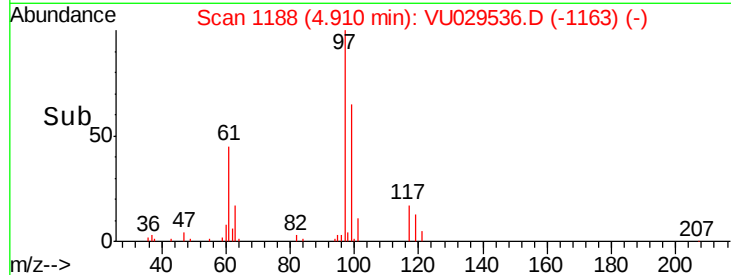
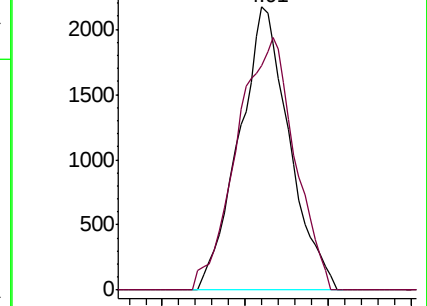
117 100

119 102.4 78.1 117.1



Abundance Ion 116.90 (116.60 to 117.60): V

2500 Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.128 ug/L

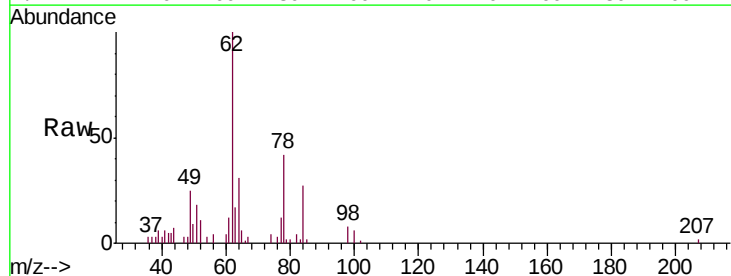
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

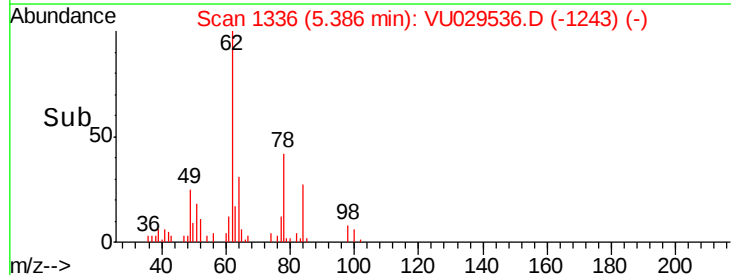
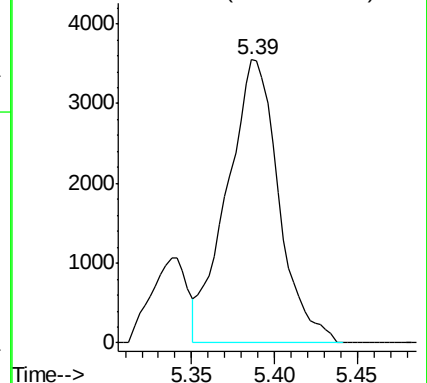
Lab File: VU029536.D

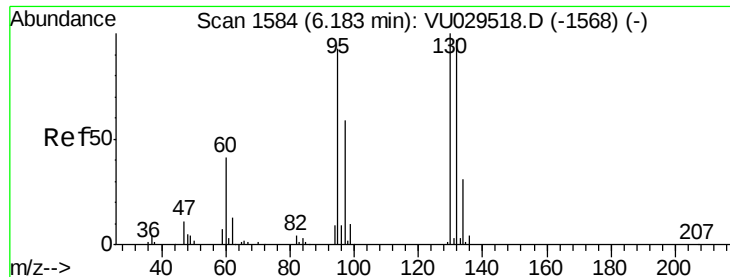
Acq: 18 Feb 2019 17:43

Tgt Ion: 78 Resp: 7695



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 149.041 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

C0AM4

Tgt Ion: 95 Resp: 2528015

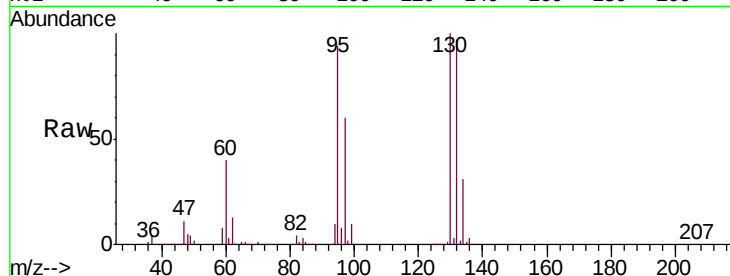
Ion Ratio Lower Upper

95 100

97 64.3 46.3 86.1

132 103.2 72.9 135.3

130 106.7 79.2 147.0

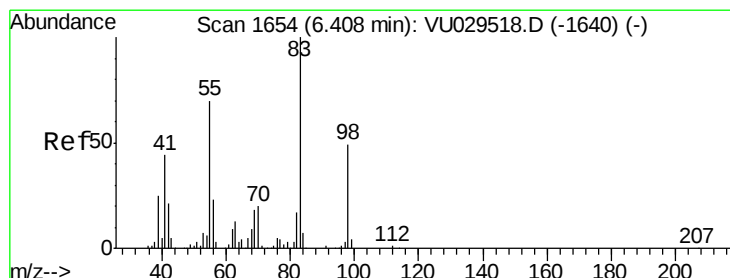
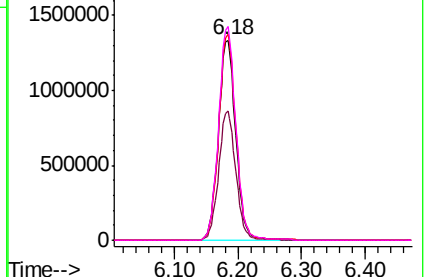
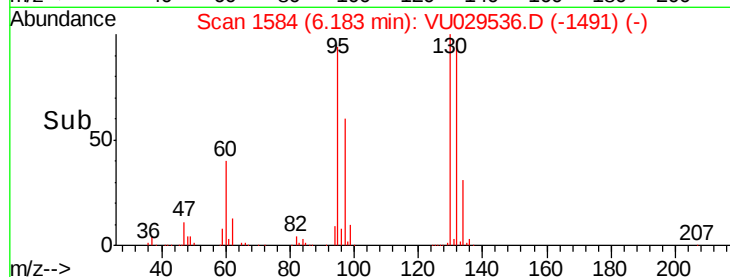


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.619 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

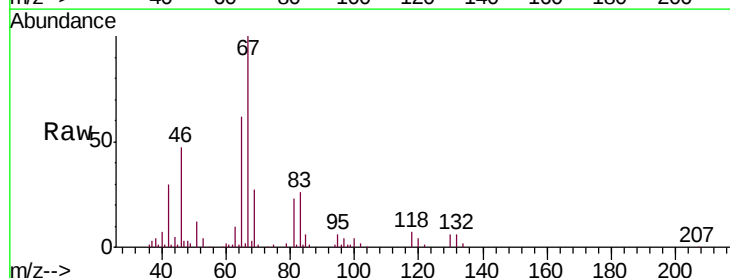
Tgt Ion: 83 Resp: 17671

Ion Ratio Lower Upper

83 100

55 1.0 55.9 83.9#

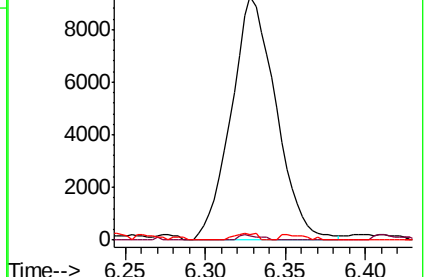
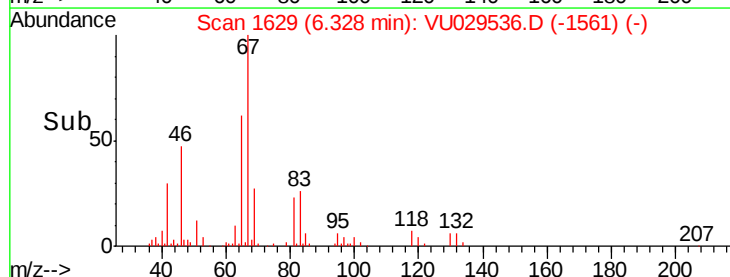
98 0.0 38.6 57.8#

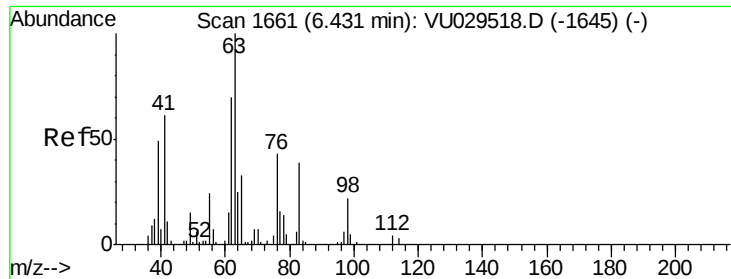


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.494 ug/L

RT: 6.33 min Scan# 1630

Delta R.T. -0.10 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

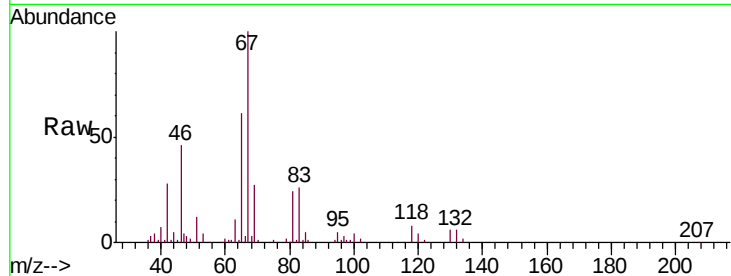
C0AM4

Tgt Ion: 63 Resp: 7470

Ion Ratio Lower Upper

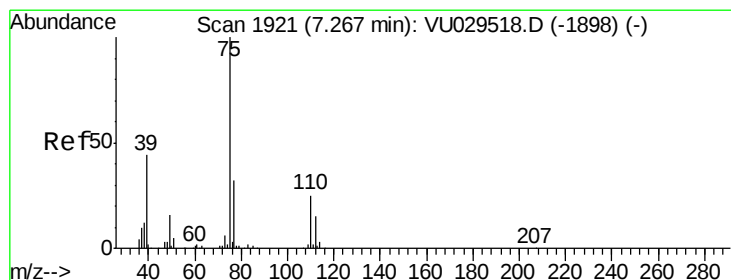
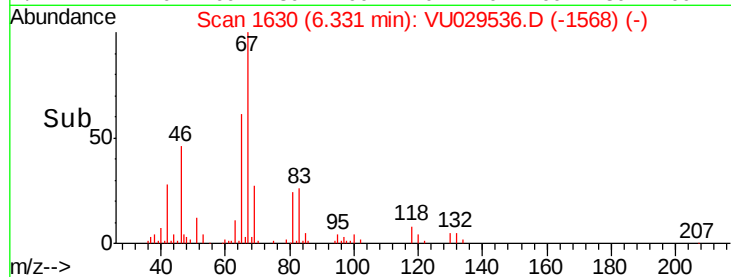
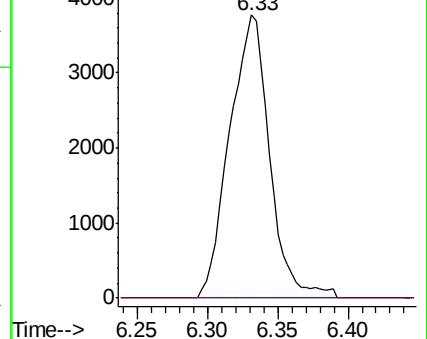
63 100

112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#39

cis-1,3-Dichloropropene

Concen: 0.091 ug/L

RT: 7.23 min Scan# 1909

Delta R.T. -0.04 min

Lab File: VU029536.D

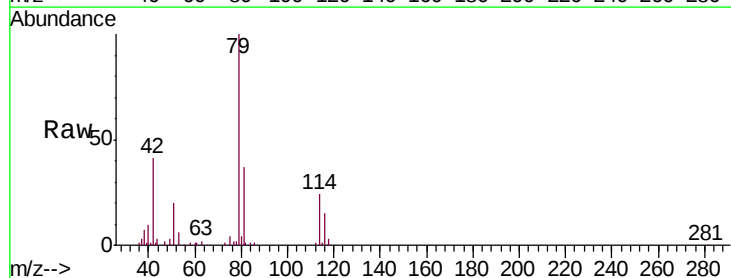
Acq: 18 Feb 2019 17:43

Tgt Ion: 75 Resp: 2159

Ion Ratio Lower Upper

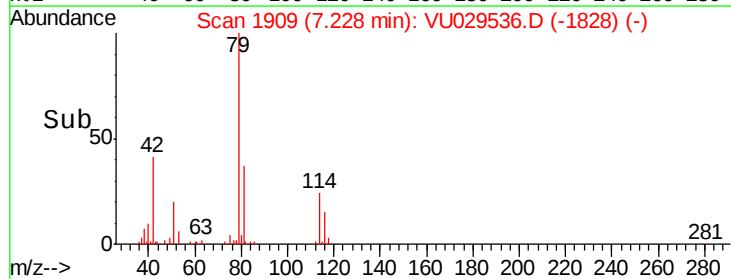
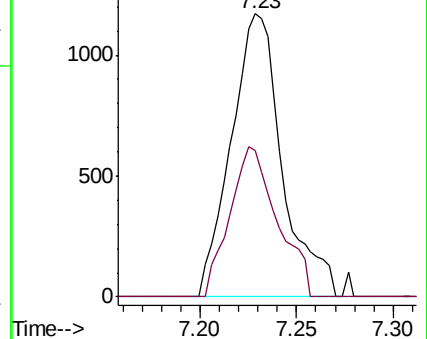
75 100

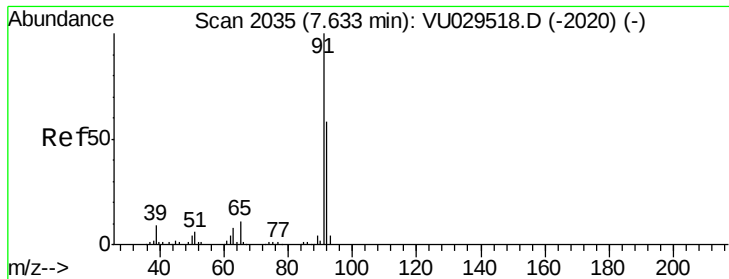
77 51.8 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#42

Toluene

Concen: 0.033 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

Instrument :

MSVOA_U

ClientSampled :

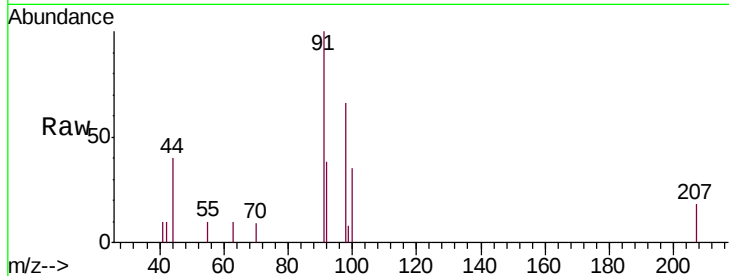
C0AM4

Tgt Ion: 91 Resp: 2241

Ion Ratio Lower Upper

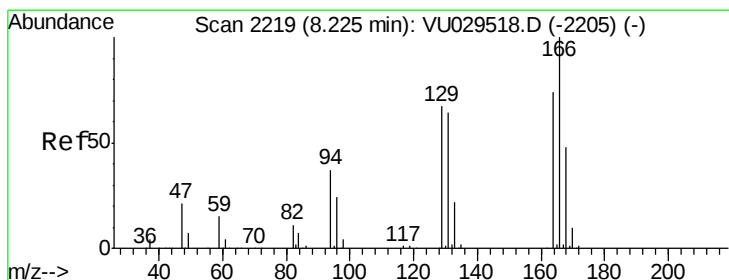
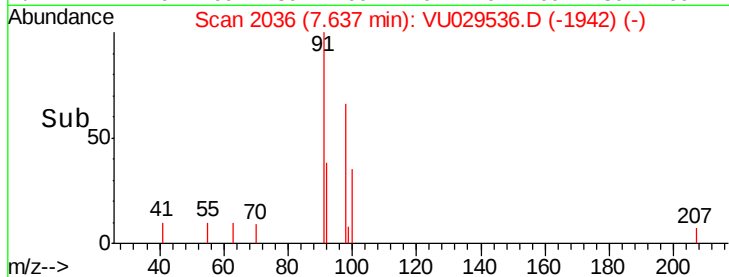
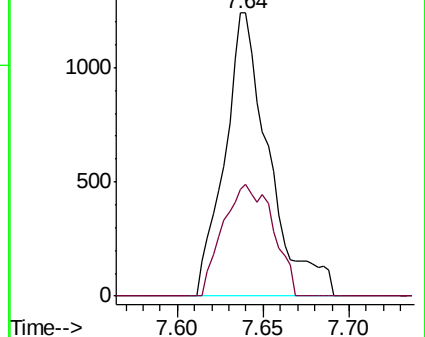
91 100

92 37.9 39.8 73.8#



Abundance Ion 91.15 (90.85 to 91.85): VU029518.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU029518.D (-2020) (-)



#47

Tetrachloroethene

Concen: 15.131 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU029536.D

Acq: 18 Feb 2019 17:43

Tgt Ion: 164 Resp: 235087

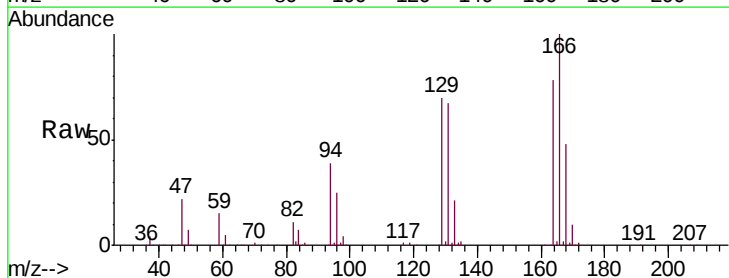
Ion Ratio Lower Upper

164 100

129 89.5 62.9 116.9

131 86.1 62.1 115.3

166 127.6 89.8 166.8

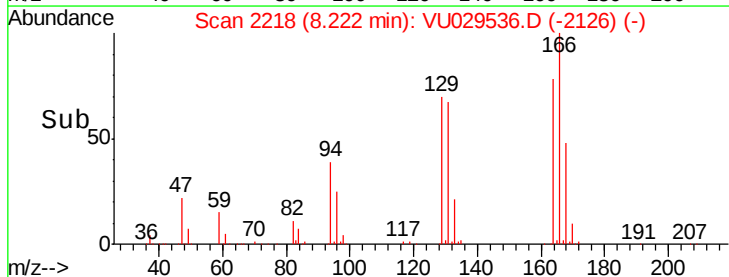
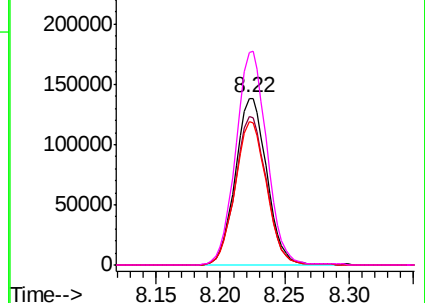


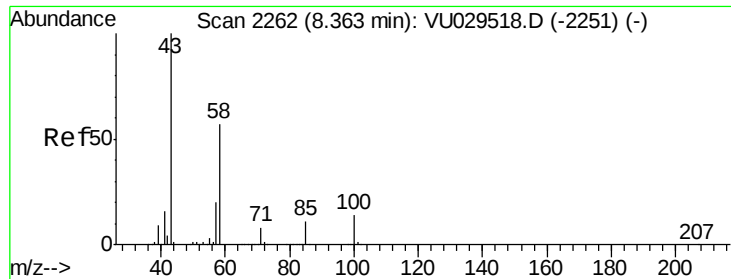
Abundance Ion 163.90 (163.60 to 164.60): VU029518.D (-2205) (-)

Ion 128.95 (128.65 to 129.65): VU029518.D (-2205) (-)

Ion 130.95 (130.65 to 131.65): VU029518.D (-2205) (-)

Ion 165.90 (165.60 to 166.60): VU029518.D (-2205) (-)

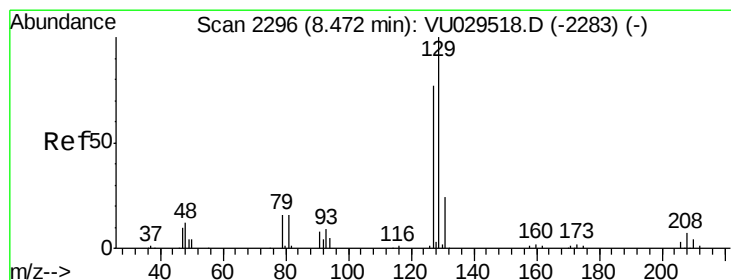
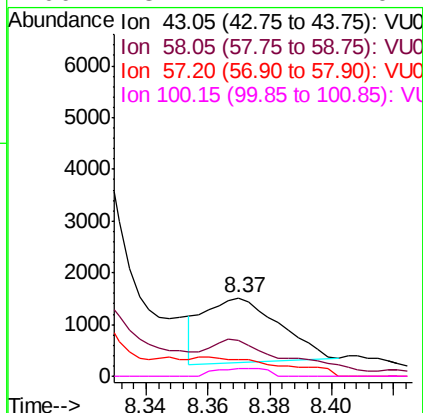
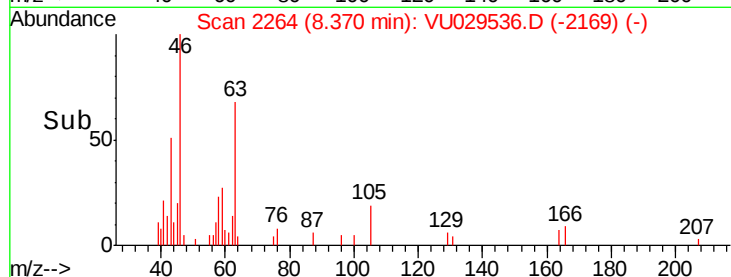
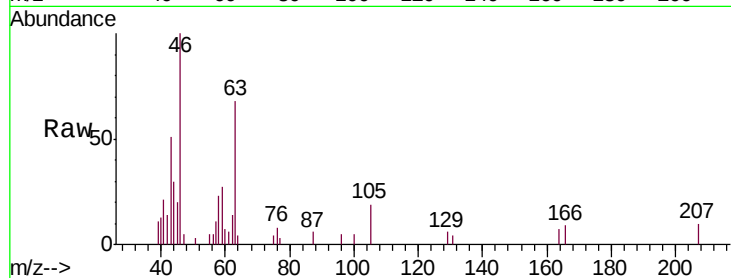




#48
2-Hexanone
Concen: 0.332 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU029536.D
Acq: 18 Feb 2019 17:43

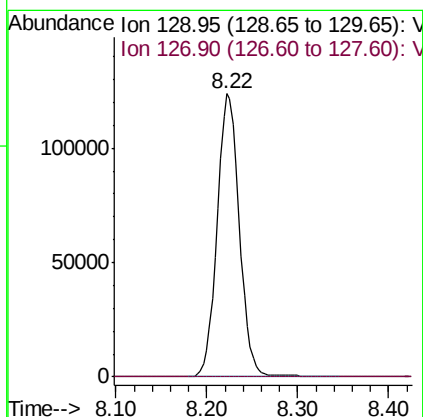
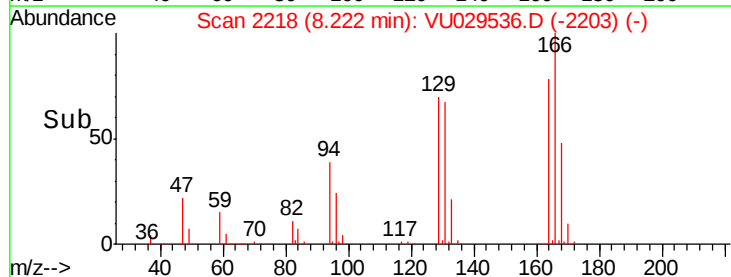
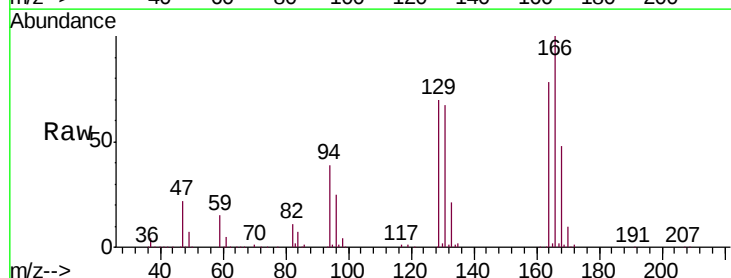
Instrument :
MSVOA_U
ClientSampleId :
C0AM4

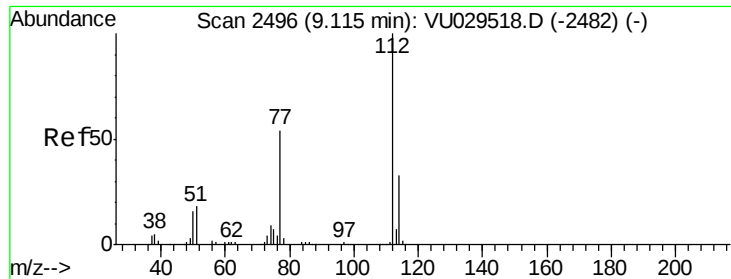
Tgt Ion: 43 Resp: 2110
Ion Ratio Lower Upper
43 100
58 60.7 45.7 68.5
57 32.9 16.4 24.6#
100 8.4 11.1 16.7#



#49
Dibromochloromethane
Concen: 13.455 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.25 min
Lab File: VU029536.D
Acq: 18 Feb 2019 17:43

Tgt Ion: 129 Resp: 209888
Ion Ratio Lower Upper
129 100
127 0.0 53.3 99.1#

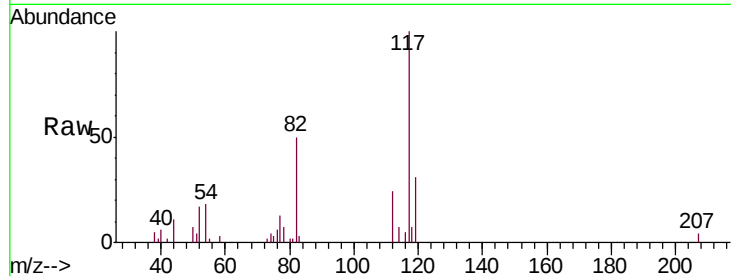




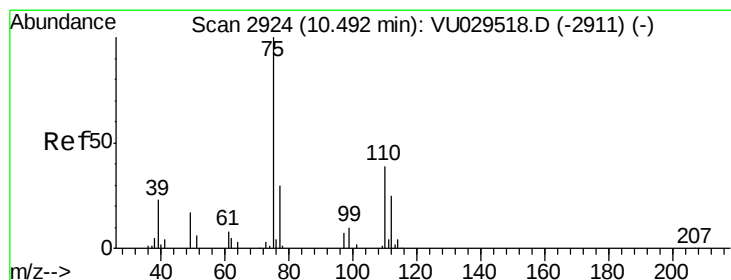
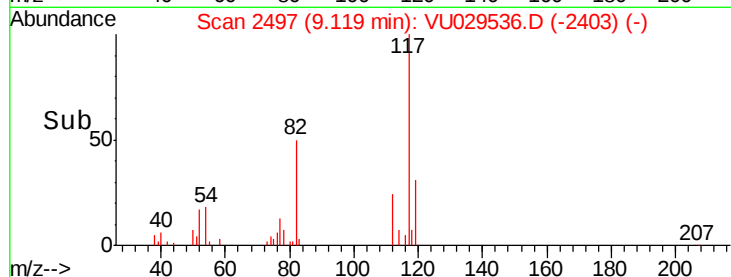
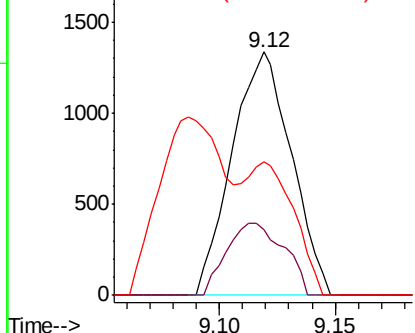
#51
Chlorobenzene
Concen: 0.051 ug/L
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU029536.D
Acq: 18 Feb 2019 17:43

Instrument :
MSVOA_U
ClientSampleId :
C0AM4

Tgt Ion: 112 Resp: 2376
Ion Ratio Lower Upper
112 100
114 26.9 22.9 42.5
77 54.8 41.8 62.6

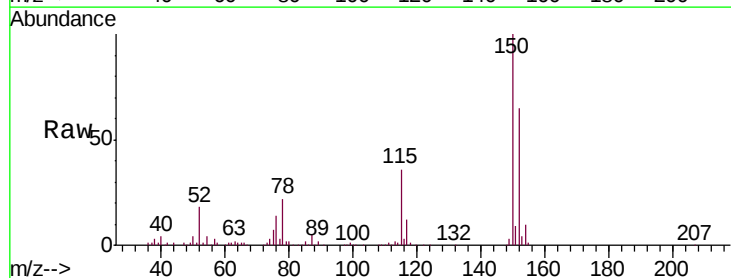


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

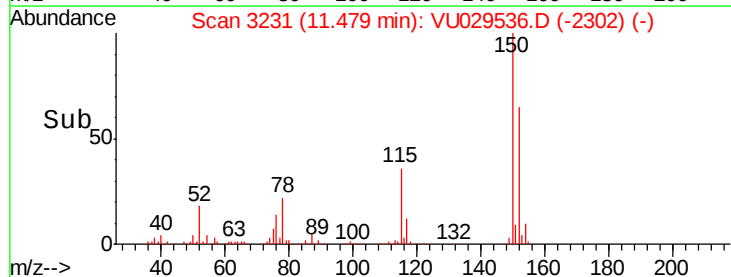
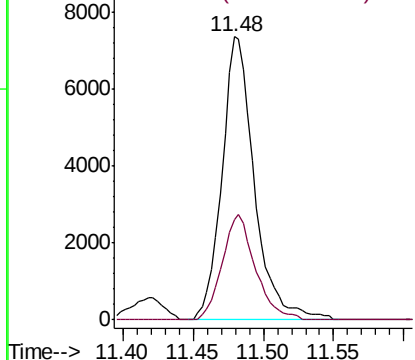


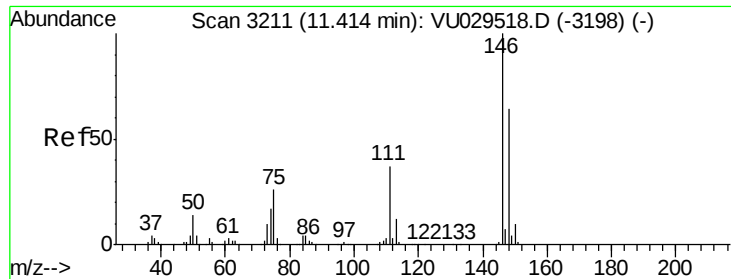
#59
1,2,3-Trichloropropane
Concen: 1.218 ug/L
RT: 11.48 min Scan# 3231
Delta R.T. 0.99 min
Lab File: VU029536.D
Acq: 18 Feb 2019 17:43

Tgt Ion: 75 Resp: 11801
Ion Ratio Lower Upper
75 100
77 37.8 28.2 42.2



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0

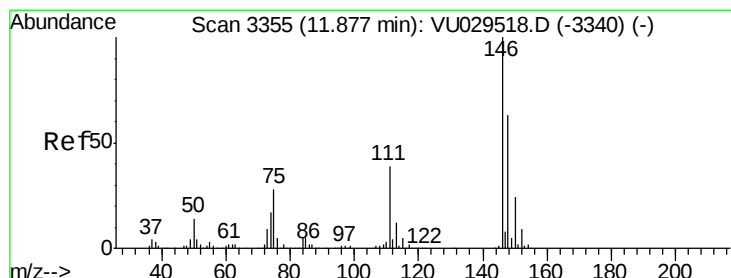
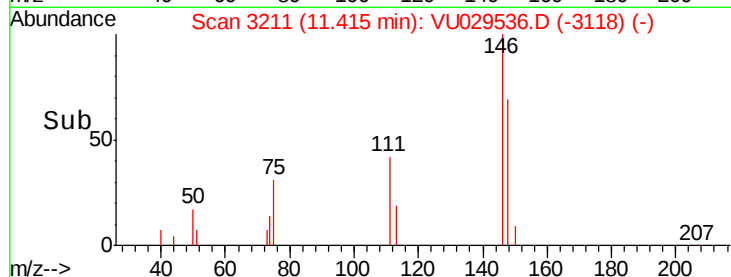
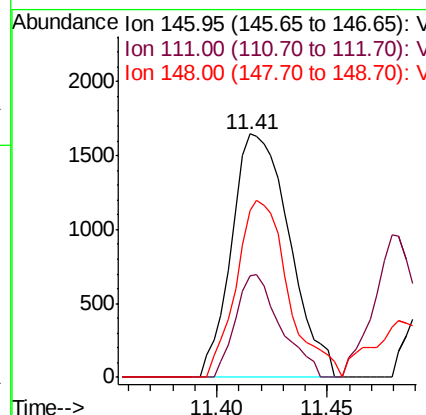
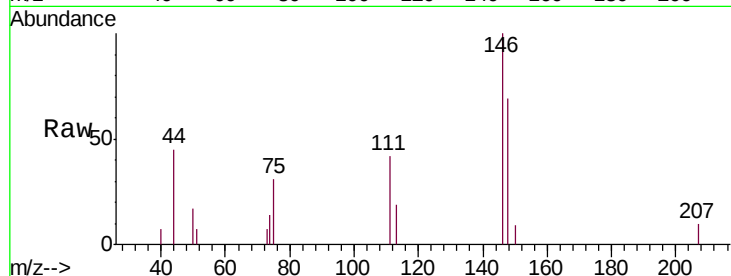




#62
 1,3-Dichlorobenzene
 Concen: 0.077 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU029536.D
 Acq: 18 Feb 2019 17:43

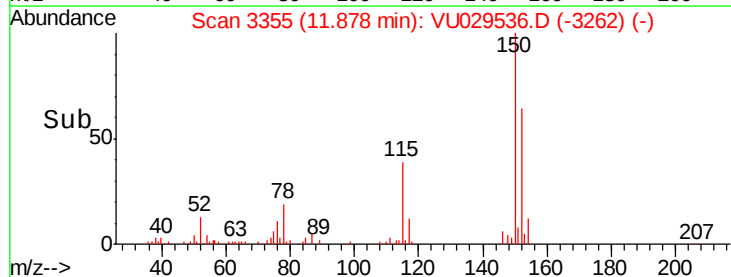
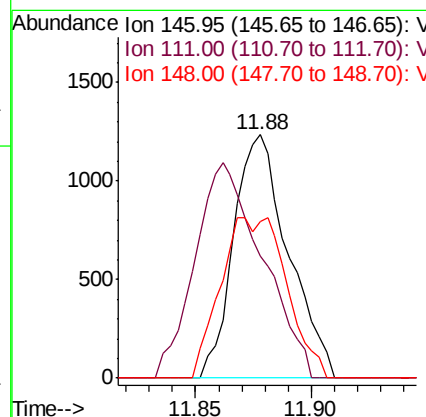
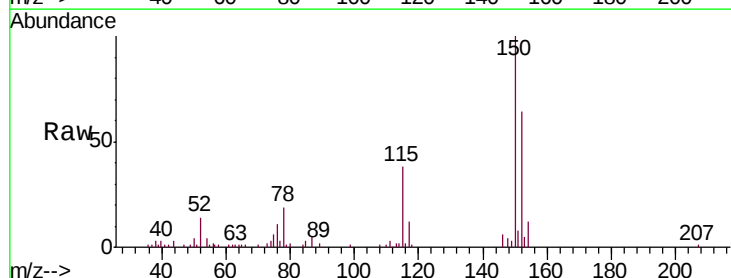
Instrument :
 MSVOA_U
 ClientSampled :
 C0AM4

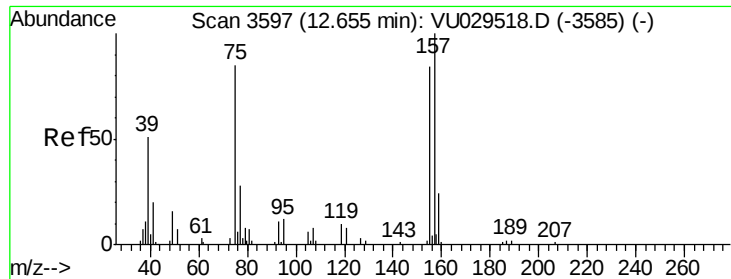
Tgt Ion:146 Resp: 3001
 Ion Ratio Lower Upper
 146 100
 111 42.0 26.1 48.5
 148 68.8 44.7 82.9



#65
 1,2-Dichlorobenzene
 Concen: 0.055 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029536.D
 Acq: 18 Feb 2019 17:43

Tgt Ion:146 Resp: 2018
 Ion Ratio Lower Upper
 146 100
 111 49.9 30.9 46.3#
 148 64.4 51.0 76.4





#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.229 ug/L
 RT: 12.48 min Scan# 3543
 Delta R.T. -0.17 min
 Lab File: VU029536.D
 Acq: 18 Feb 2019 17:43

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AM4

Tgt Ion: 75 Resp: 525
 Ion Ratio Lower Upper
 75 100
 155 0.0 75.3 112.9#
 157 0.0 103.0 154.4#

