

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\
 Data File : VU028271.D
 Acq On : 20 Nov 2018 12:25
 Operator : MD/SY
 Sample : J5995-19
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 06:36:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 21 06:33:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	134486	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	128643	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	55323	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	37676	3.72	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.40%
7) Chloroethane-d5	1.68	69	34335	3.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.60%
11) 1,1-Dichloroethene-d2	2.28	63	55261	2.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	54.80%#
20) 2-Butanone-d5	4.20	46	153389	45.29	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.58%
24) Chloroform-d	4.65	84	75067	3.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.60%
26) 1,2-Dichloroethane-d4	5.31	65	43805	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.00%
32) Benzene-d6	5.34	84	145949	3.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.80%
36) 1,2-Dichloropropane-d6	6.33	67	56766	4.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.40%
41) Toluene-d8	7.57	98	123288	3.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.40%
43) trans-1,3-Dichloropropene-	7.85	79	17090	3.98	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.60%
46) 2-Hexanone-d5	8.31	63	105223	40.85	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.70%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	40989	4.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	44372	4.31	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.41	62	64582	4.731	ug/L	95
8) Chloroethane	1.71	64	1676	0.208	ug/L #	58
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	530	0.061	ug/L #	39
12) 1,1-Dichloroethene	2.28	96	1488	0.180	ug/L #	1
13) Acetone	2.33	43	3345	1.436	ug/L	59
16) Methylene chloride	2.71	84	3287	0.315	ug/L	90
17) Methyl tert-butyl Ether	3.01	73	752911	30.273	ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	51506	5.840	ug/L	95
19) 1,1-Dichloroethane	3.45	63	24405	1.193	ug/L	98
22) cis-1,2-Dichloroethene	4.23	96	473597	45.430	ug/L	92
25) Chloroform	4.67	83	1115	0.050	ug/L	88
33) Benzene	5.39	78	11833	0.279	ug/L	100
34) Trichloroethene	6.19	95	272787	26.251	ug/L	96
35) Methylcyclohexane	6.33	83	11477	0.701	ug/L #	13
37) 1,2-Dichloropropane	6.33	63	5603	0.463	ug/L #	92
39) cis-1,3-Dichloropropene	7.22	75	1084	0.071	ug/L #	78
47) Tetrachloroethene	8.23	164	524	0.073	ug/L #	68

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Response via : Initial Calibration

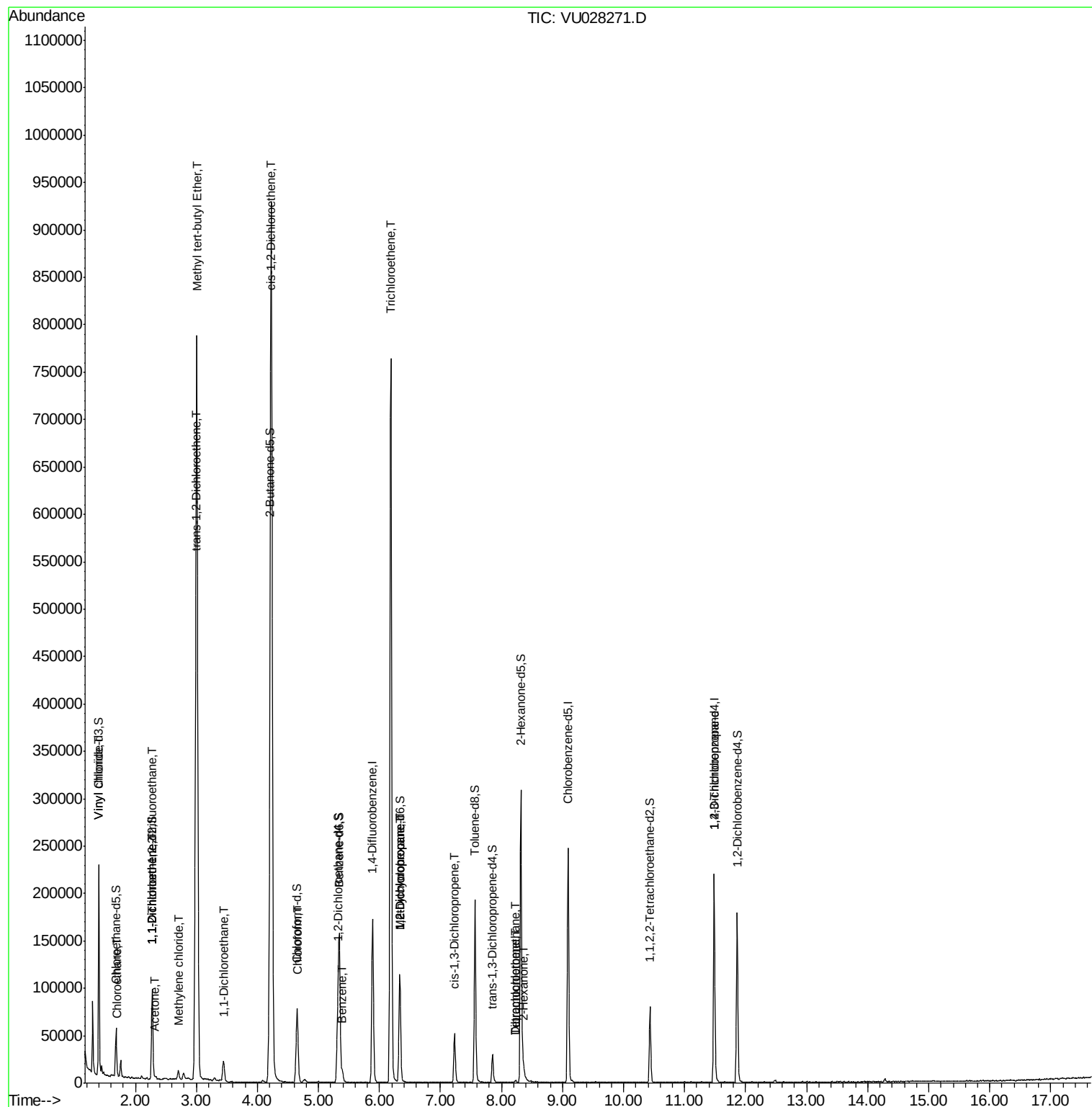
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.37	43	3999	0.648	ug/L #	88
49) Dibromochloromethane	8.23	129	562	0.076	ug/L #	10
59) 1,2,3-Trichloropropane	11.49	75	7917	1.131	ug/L	95

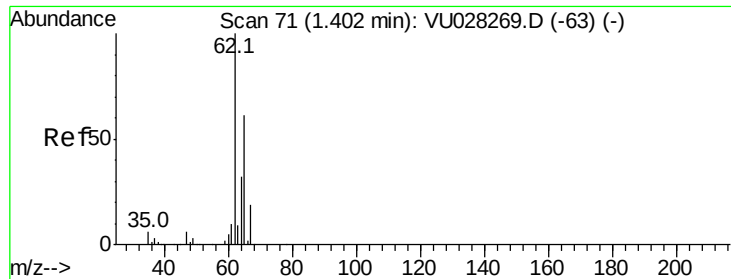
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 4.731 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

Instrument :

MSVOA_U

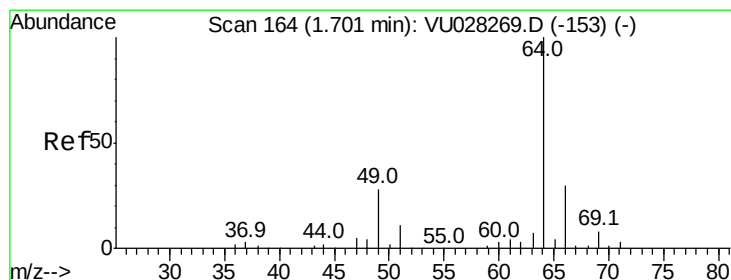
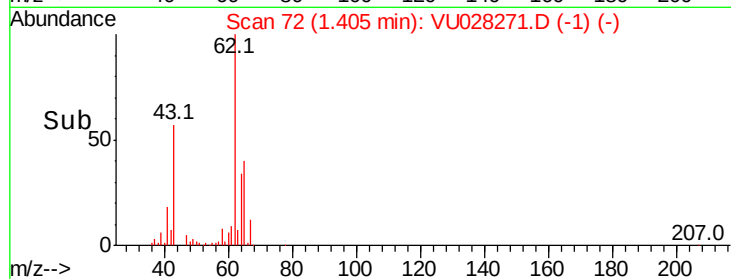
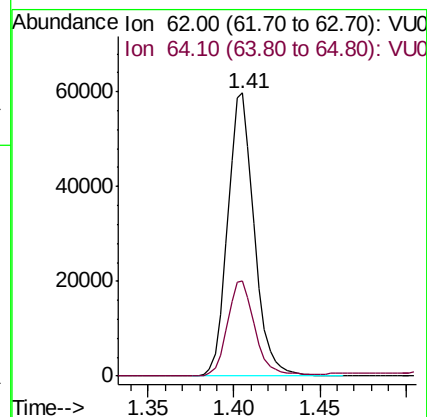
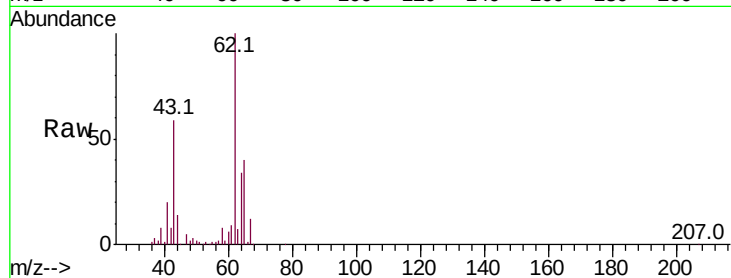
ClientSampleId :

Tot Ion: 62 Resp: 64582

Ion Ratio Lower Upper

62 100

64 33.5 21.7 40.3



#8

Chloroethane

Concen: 0.208 ug/L

RT: 1.71 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU028271.D

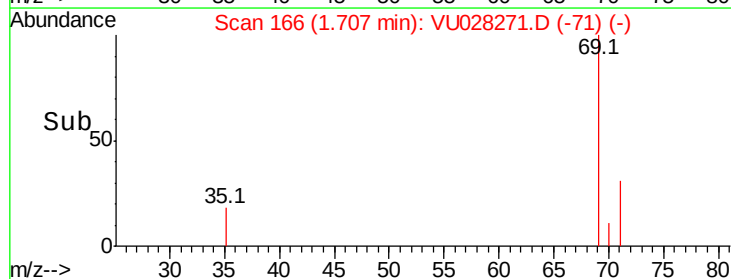
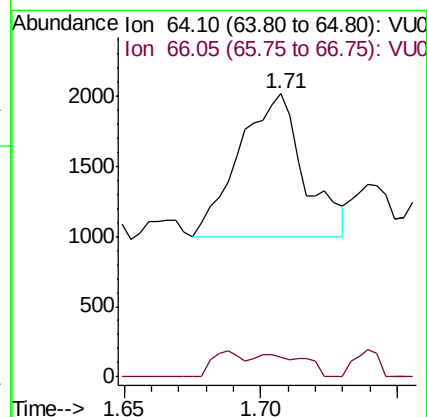
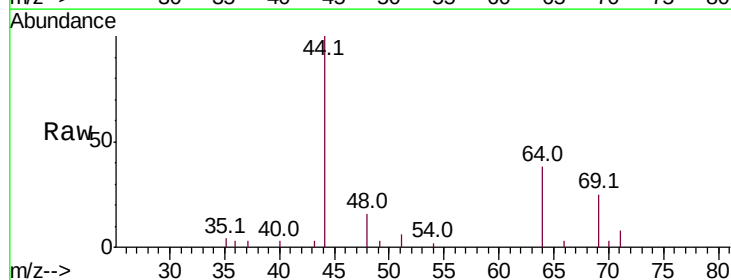
Acq: 20 Nov 2018 12:25

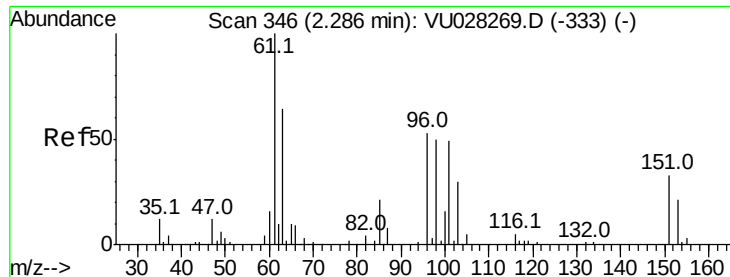
Tgt Ion: 64 Resp: 1676

Ion Ratio Lower Upper

64 100

66 6.7 20.7 38.5#





#10

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

Concen: 0.061 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

Instrument :

MSVOA_U

ClientSampled :

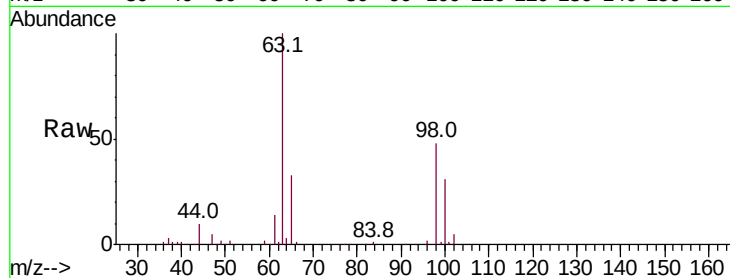
Tot Ion:101 Resp: 530

Ion Ratio Lower Upper

101 100

85 29.4 37.4 56.2#

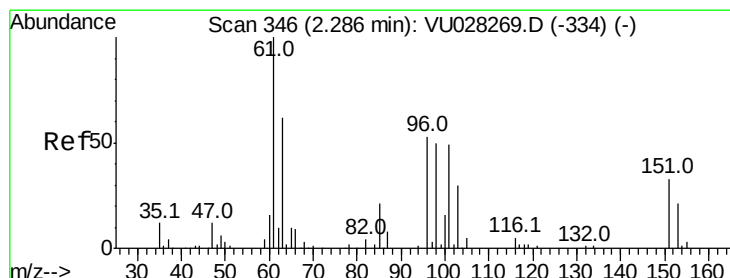
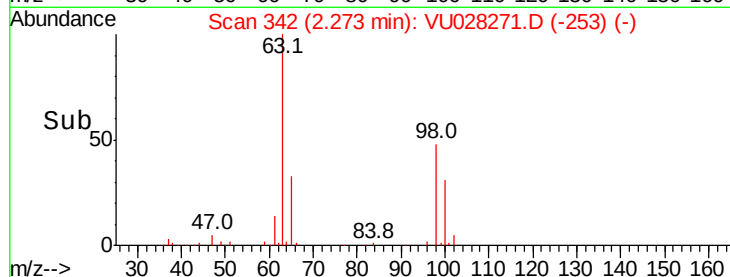
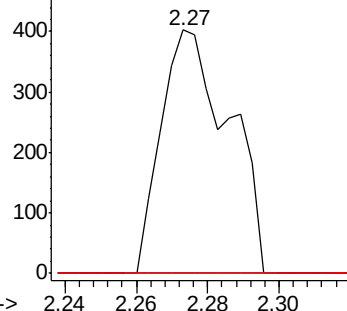
151 0.0 55.0 82.4#



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: 0.180 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

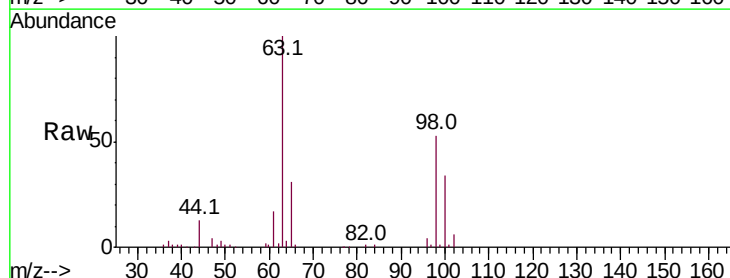
Tgt Ion: 96 Resp: 1488

Ion Ratio Lower Upper

96 100

61 427.9 145.5 270.1#

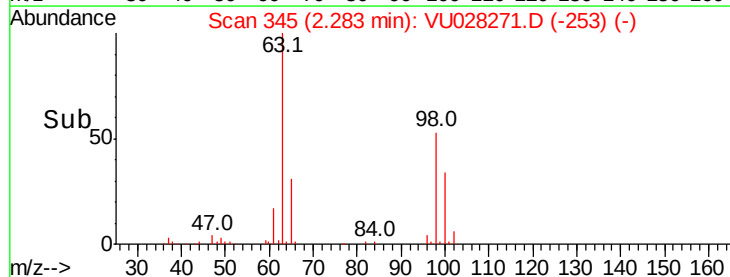
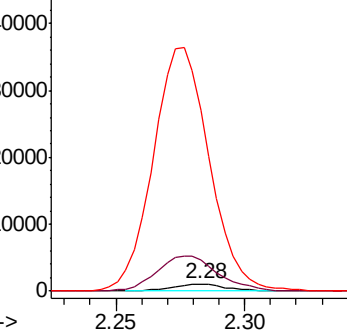
63 2525.7 98.6 183.2#

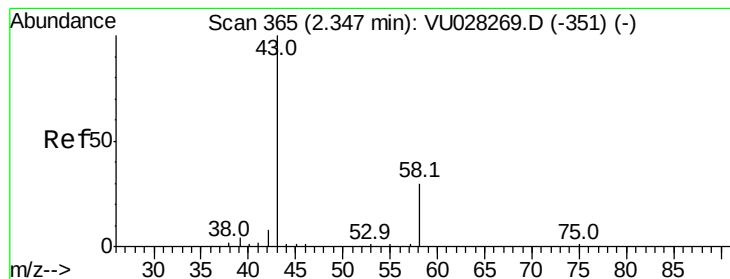


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.436 ug/L

RT: 2.33 min Scan# 360

Delta R.T. -0.02 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

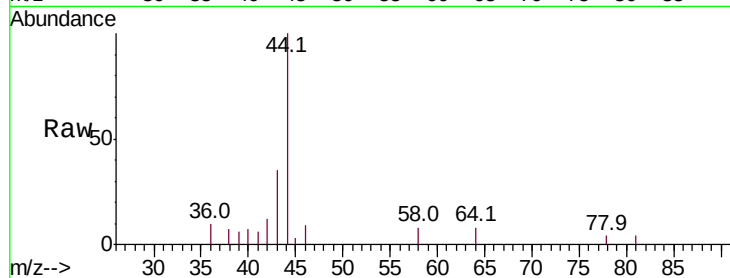
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 3345

Ion Ratio Lower Upper

43 100

58 7.2 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU028269.D (-351) (-)

Ion 58.05 (57.75 to 58.75): VU028269.D (-351) (-)

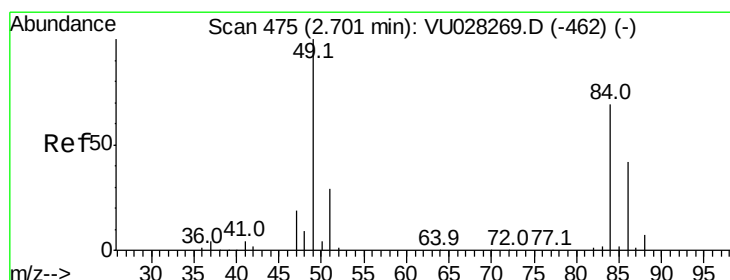
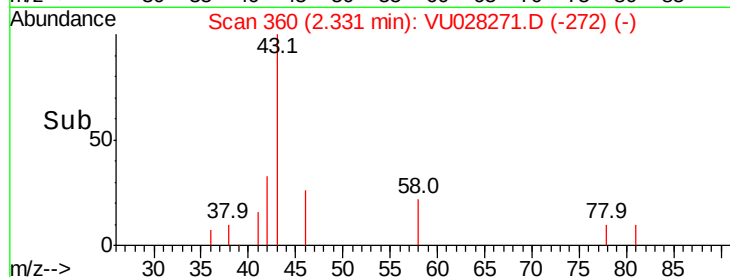
2.33

1000

500

0

Time-->



#16

Methylene chloride

Concen: 0.315 ug/L

RT: 2.71 min Scan# 477

Delta R.T. 0.01 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

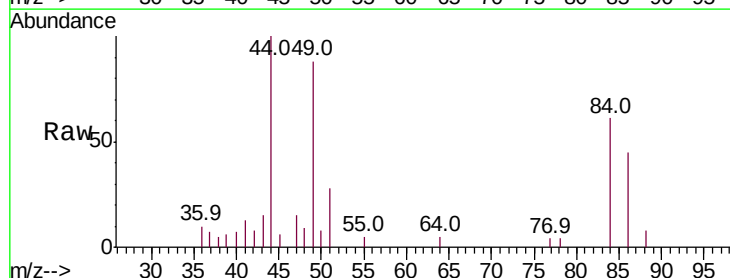
Tgt Ion: 84 Resp: 3287

Ion Ratio Lower Upper

84 100

86 73.6 45.3 84.1

49 142.5 107.9 200.5



Abundance Ion 84.05 (83.75 to 84.75): VU028269.D (-462) (-)

Ion 86.00 (85.70 to 86.70): VU028269.D (-462) (-)

Ion 49.10 (48.80 to 49.80): VU028269.D (-462) (-)

2.71

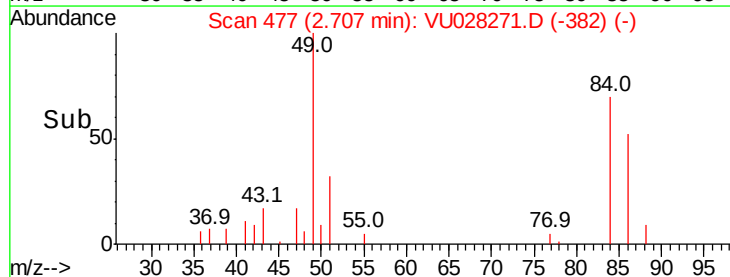
3000

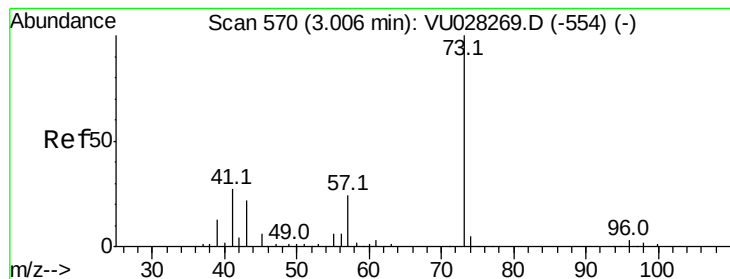
2000

1000

0

Time-->



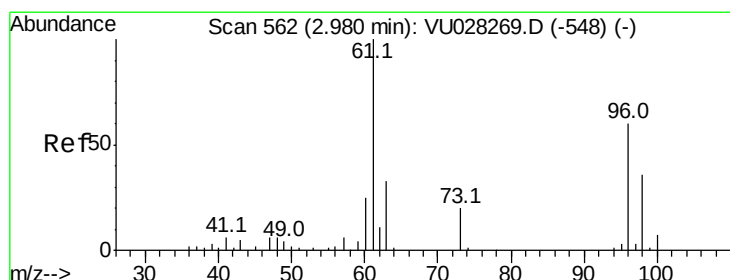
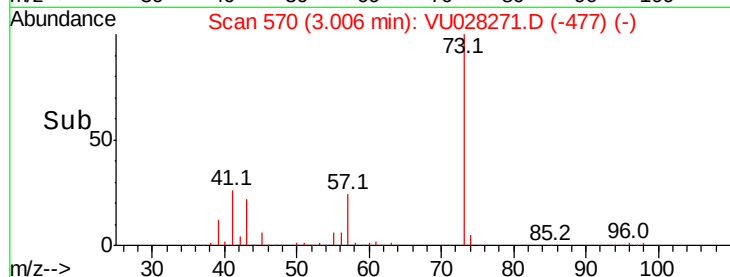
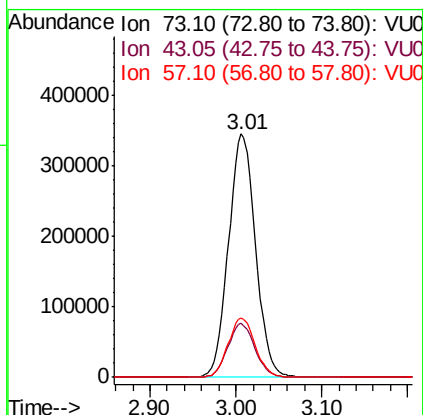
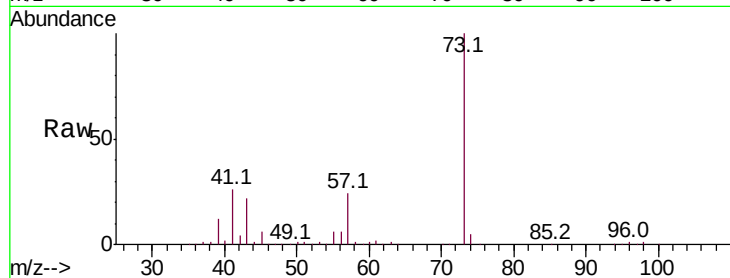


#17

Methyl tert-butyl Ether
 Concen: 30.273 ug/L
 RT: 3.01 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VU028271.D
 Acq: 20 Nov 2018 12:25

Instrument :
 MSVOA_U
 ClientSampleId :

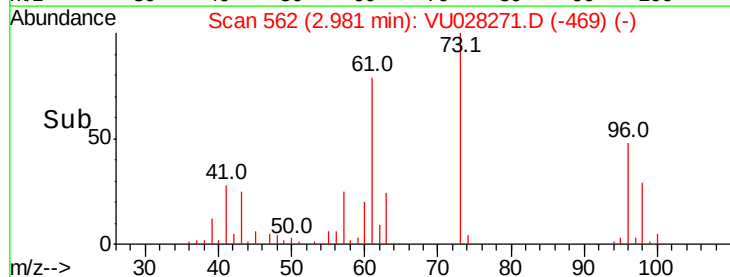
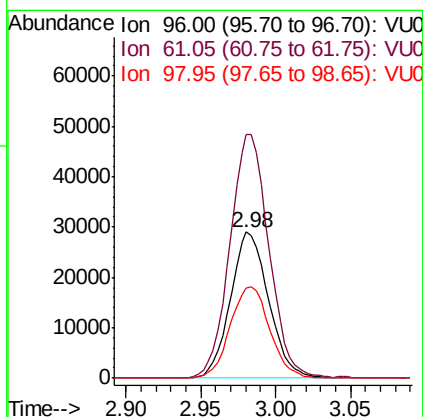
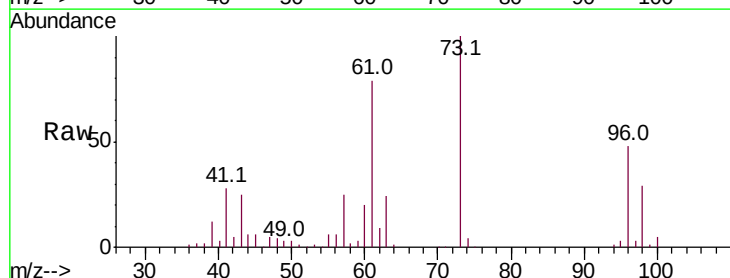
Tot Ion:	73	Resp:	752911
Ion	Ratio	Lower	Upper
73	100		
43	22.4	18.8	28.2
57	24.5	19.2	28.8

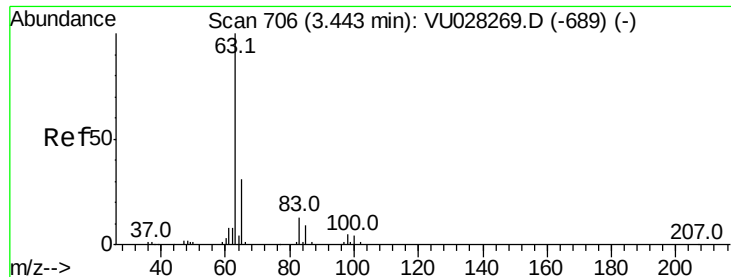


#18

trans-1,2-Dichloroethene
 Concen: 5.840 ug/L
 RT: 2.98 min Scan# 562
 Delta R.T. 0.00 min
 Lab File: VU028271.D
 Acq: 20 Nov 2018 12:25

Tgt Ion:	96	Resp:	51506
Ion	Ratio	Lower	Upper
96	100		
61	166.9	122.2	227.0
98	61.6	44.9	83.5





#19

1,1-Dichloroethane

Concen: 1.193 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

Instrument :

MSVOA_U

ClientSampled :

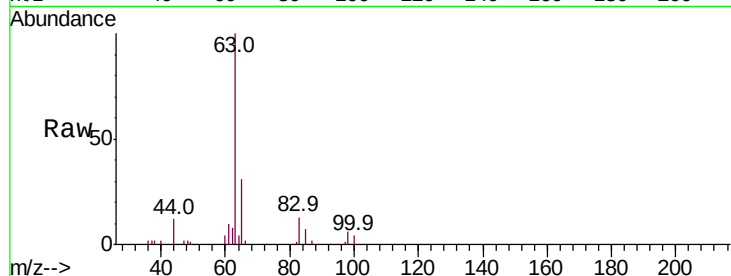
Tot Ion: 63 Resp: 24405

Ion Ratio Lower Upper

63 100

65 31.2 21.2 39.4

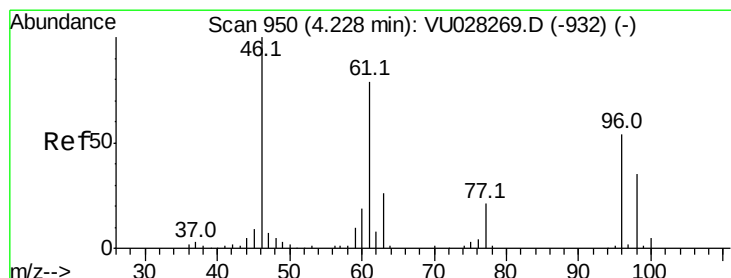
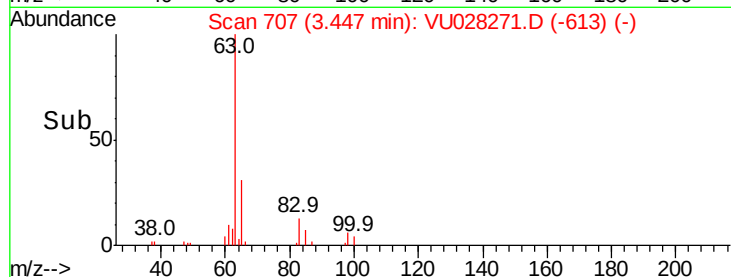
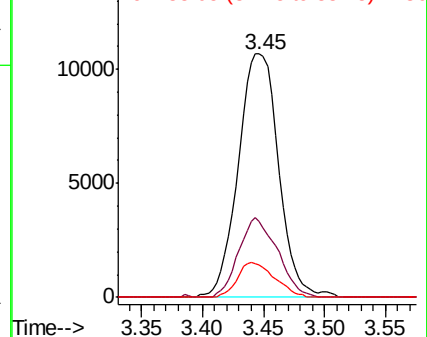
83 13.4 8.8 16.4



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



#22

cis-1,2-Dichloroethene

Concen: 45.430 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

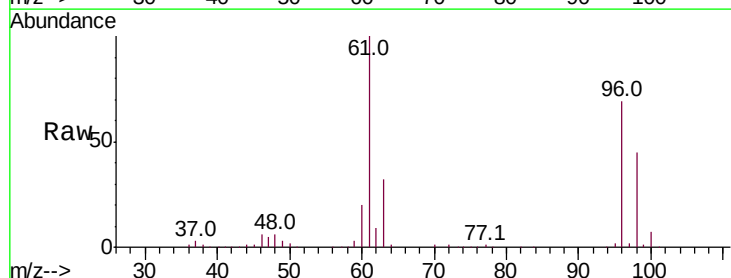
Tgt Ion: 96 Resp: 473597

Ion Ratio Lower Upper

96 100

61 144.2 108.0 200.6

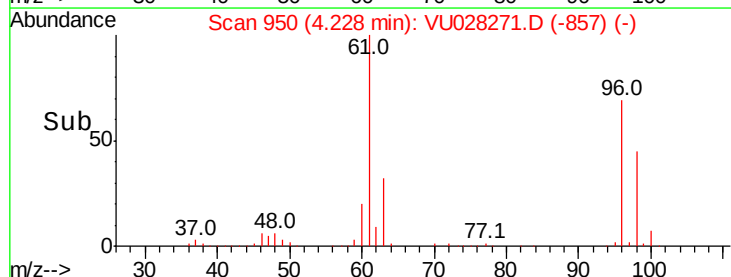
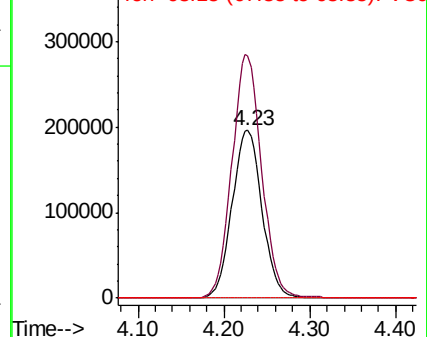
68 0.0 0.0 0.0

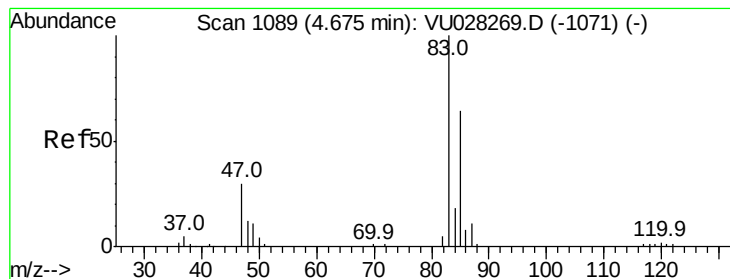


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0





#25

Chloroform

Concen: 0.050 ug/L

RT: 4.67 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

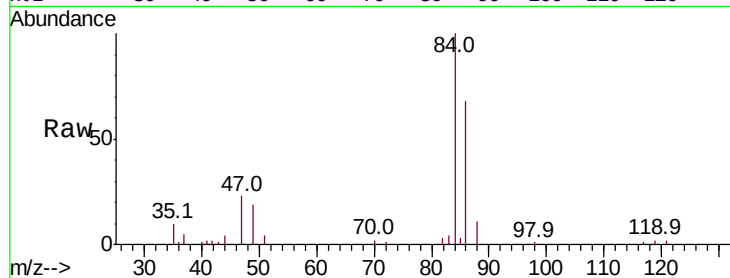
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 1115

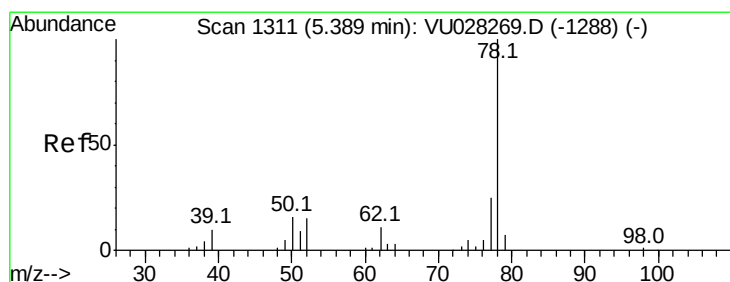
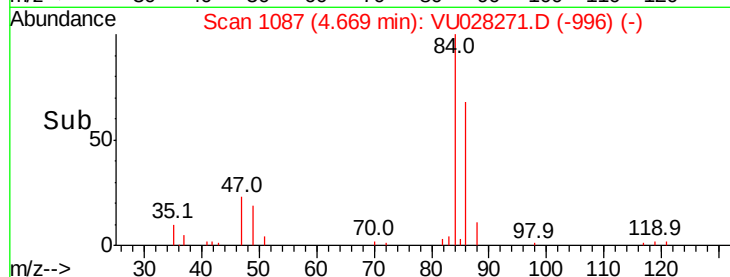
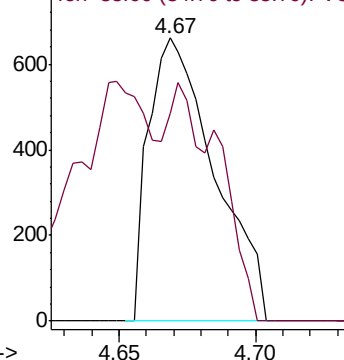
Ion Ratio Lower Upper

83 100

85 73.4 44.6 82.8



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



#33

Benzene

Concen: 0.279 ug/L

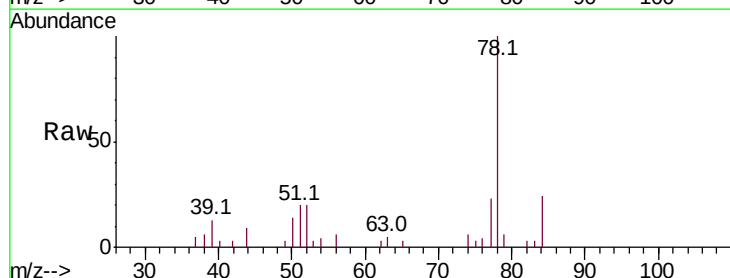
RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

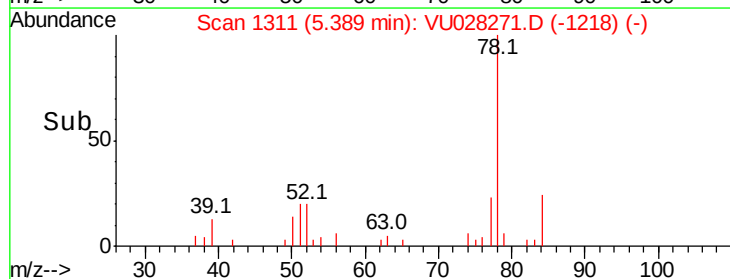
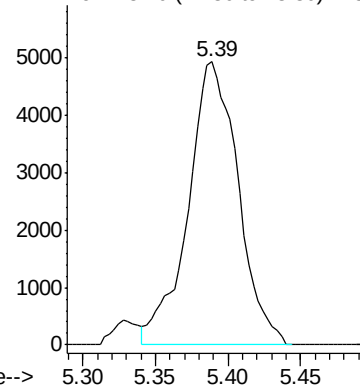
Lab File: VU028271.D

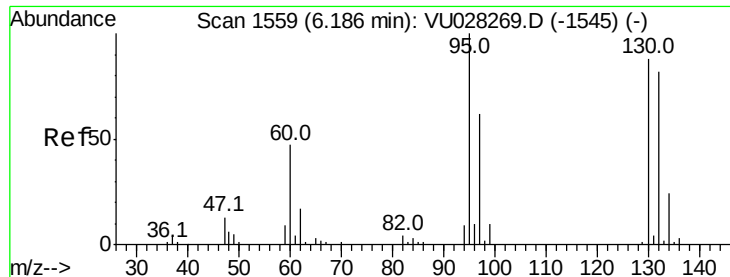
Acq: 20 Nov 2018 12:25

Tgt Ion: 78 Resp: 11833



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 26.251 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 272787

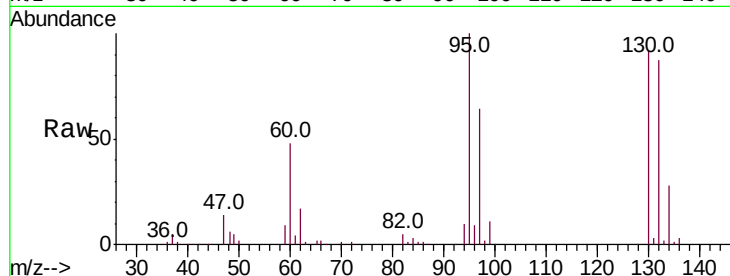
Ion Ratio Lower Upper

95 100

97 64.2 46.5 86.3

132 86.7 58.9 109.3

130 92.1 61.3 113.9

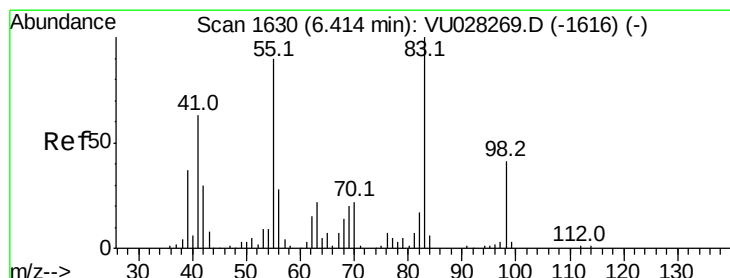
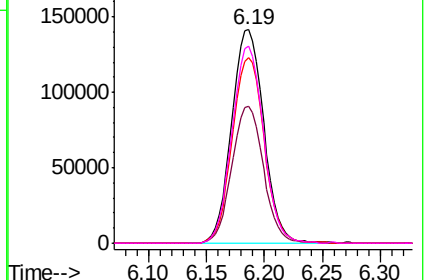
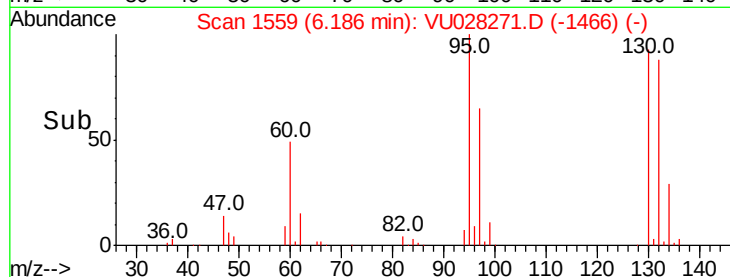


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.701 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

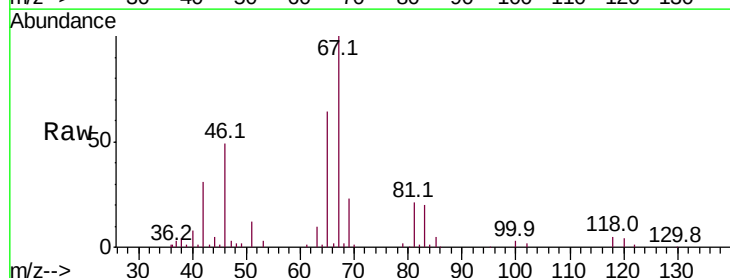
Tgt Ion: 83 Resp: 11477

Ion Ratio Lower Upper

83 100

55 0.0 73.2 109.8#

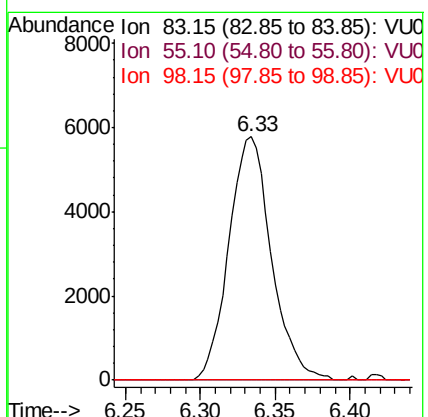
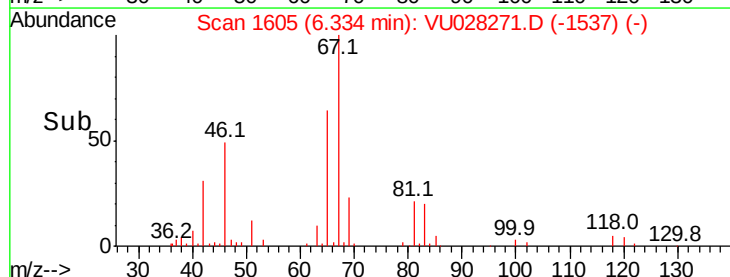
98 0.0 33.4 50.2#

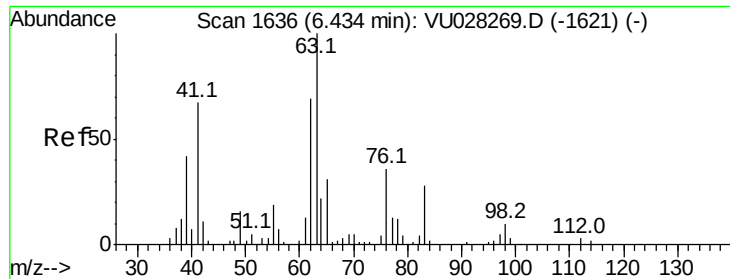


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

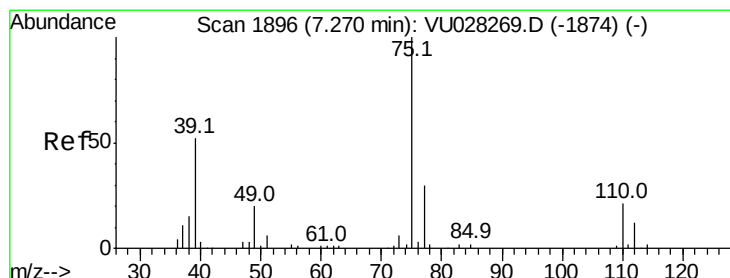
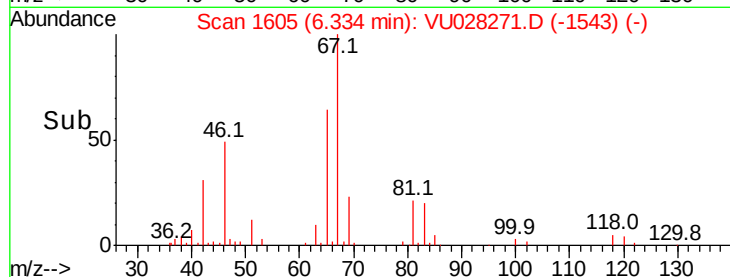
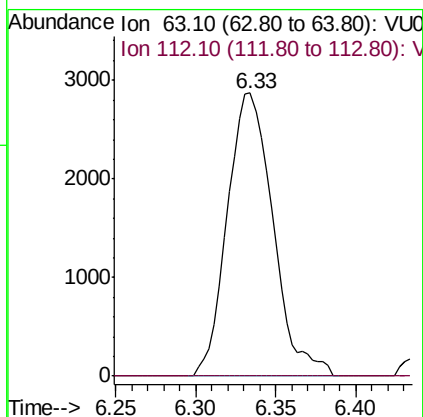
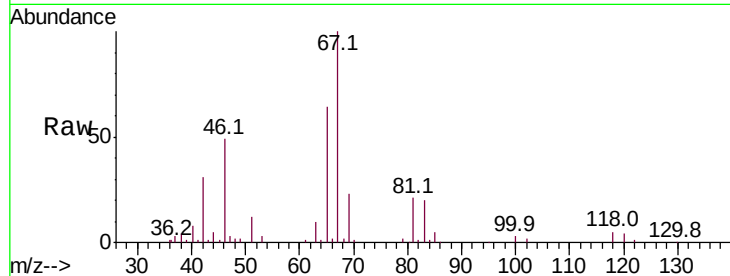




#37
 1,2-Dichloropropane
 Concen: 0.463 ug/L
 RT: 6.33 min Scan# 1605
 Delta R.T. -0.10 min
 Lab File: VU028271.D
 Acq: 20 Nov 2018 12:25

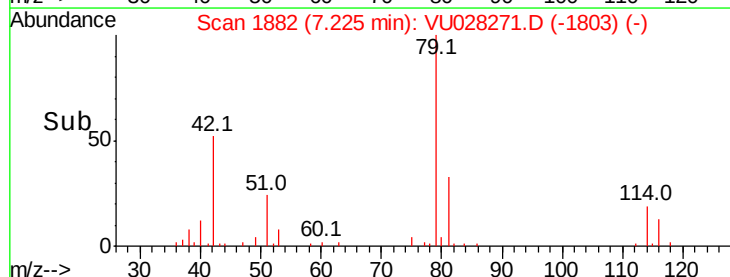
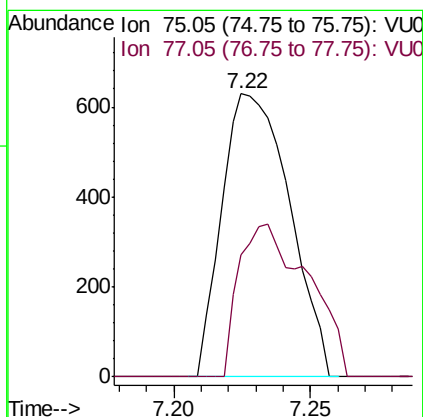
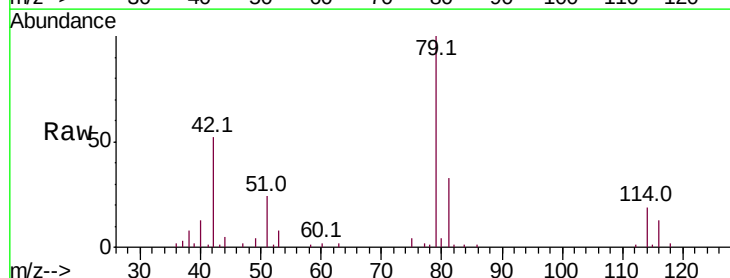
Instrument :
 MSVOA_U
 ClientSampleId :

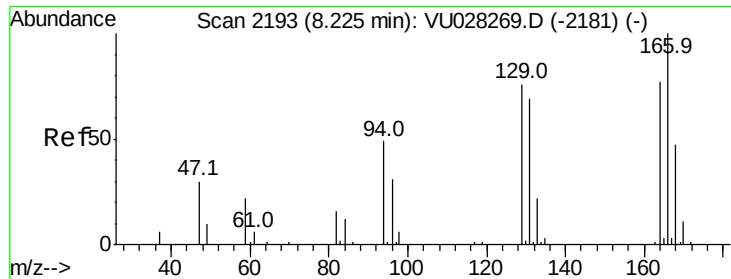
Tot Ion: 63 Resp: 5603
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.2 3.2#



#39
 cis-1,3-Dichloropropene
 Concen: 0.071 ug/L
 RT: 7.22 min Scan# 1882
 Delta R.T. -0.04 min
 Lab File: VU028271.D
 Acq: 20 Nov 2018 12:25

Tgt Ion: 75 Resp: 1084
 Ion Ratio Lower Upper
 75 100
 77 42.9 21.7 40.3#





#47

Tetrachloroethene

Concen: 0.073 ug/L

RT: 8.23 min Scan# 2195

Delta R.T. 0.01 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 524

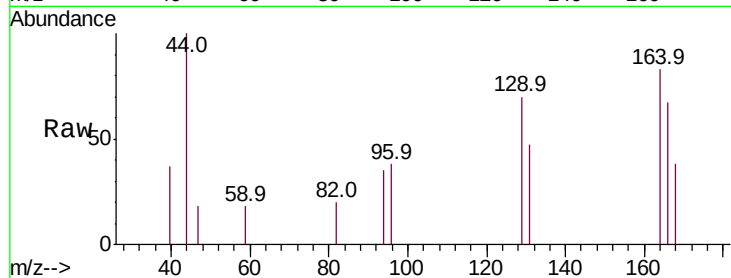
Ion Ratio Lower Upper

164 100

129 84.8 67.6 125.6

131 56.7 66.3 123.1#

166 80.3 89.2 165.6#

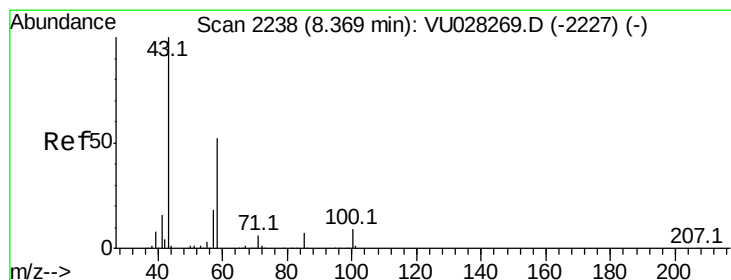
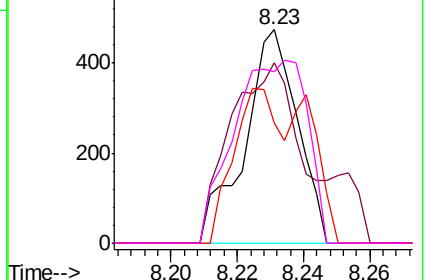
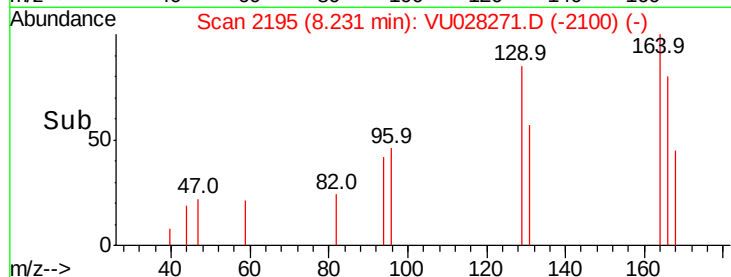


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 0.648 ug/L

RT: 8.37 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

Tgt Ion: 43 Resp: 3999

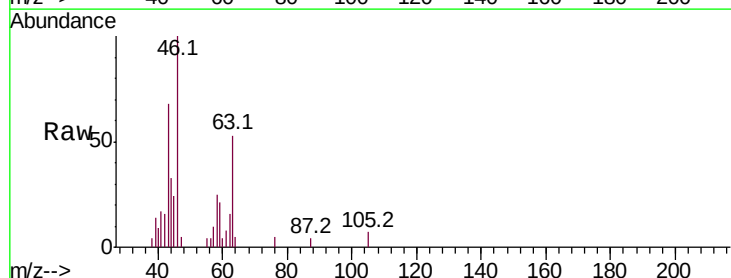
Ion Ratio Lower Upper

43 100

58 41.6 41.1 61.7

57 15.8 13.8 20.8

100 2.5 6.5 9.7#

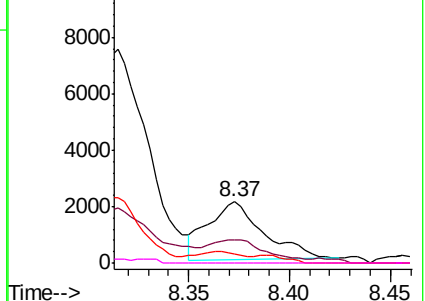
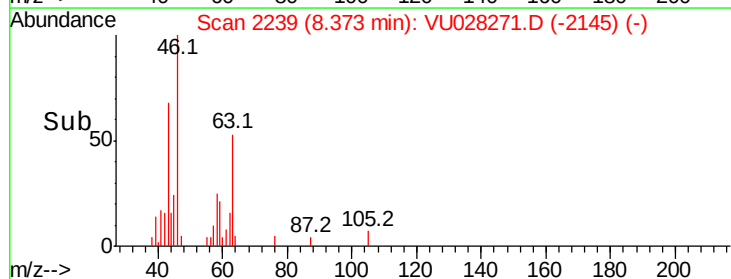


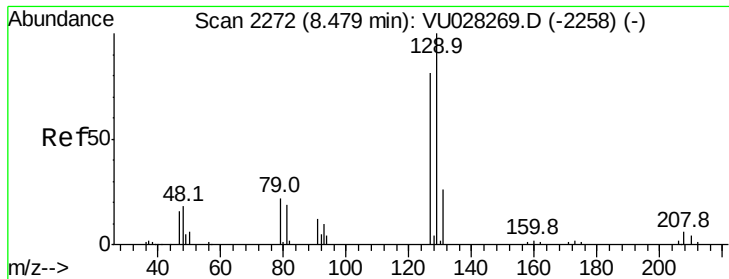
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.076 ug/L

RT: 8.23 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VU028271.D

Acq: 20 Nov 2018 12:25

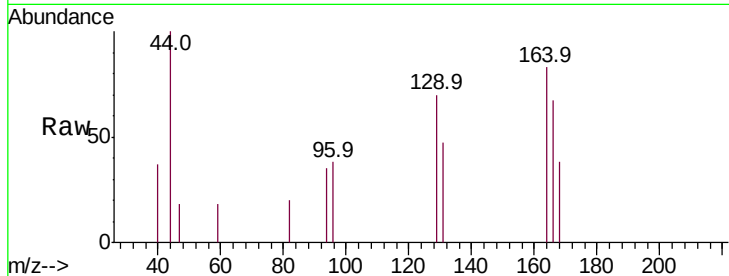
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:129 Resp: 562

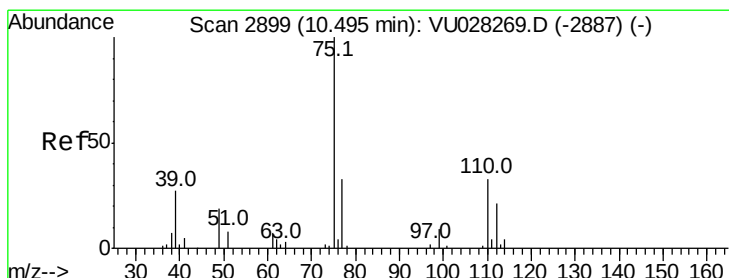
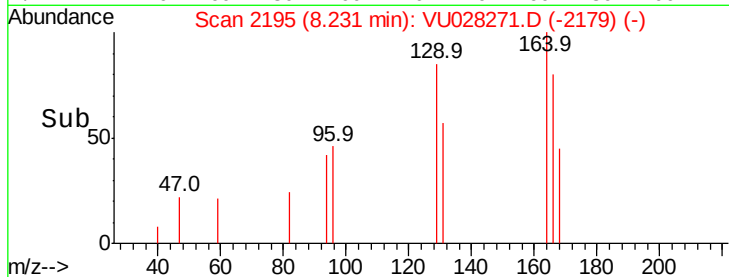
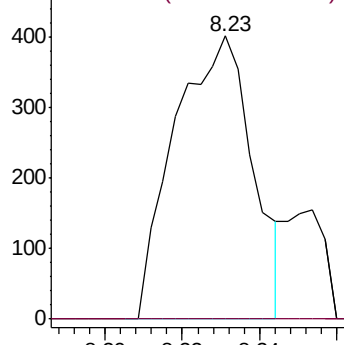
Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



Abundance Ion 128.95 (128.65 to 129.65): V



#59

1,2,3-Trichloropropane

Concen: 1.131 ug/L

RT: 11.49 min Scan# 3208

Delta R.T. 0.99 min

Lab File: VU028271.D

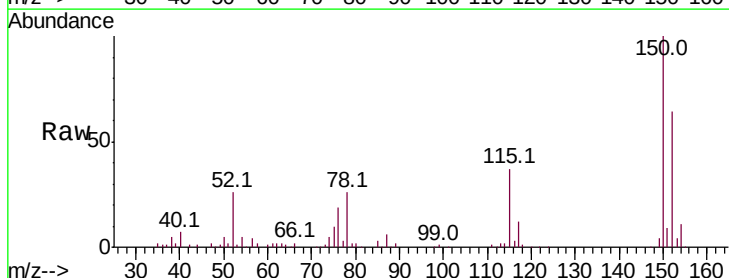
Acq: 20 Nov 2018 12:25

Tgt Ion: 75 Resp: 7917

Ion Ratio Lower Upper

75 100

77 34.7 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

