

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\
 Data File : VU028269.D
 Acq On : 20 Nov 2018 10:36
 Operator : MD/SY
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 06:34:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 20 07:07:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	137648	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	130995	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	62139	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	42742	4.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.60%
7) Chloroethane-d5	1.68	69	40204	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.00%
11) 1,1-Dichloroethene-d2	2.28	63	89472	4.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.80%
20) 2-Butanone-d5	4.21	46	178160	51.40	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.80%
24) Chloroform-d	4.65	84	90177	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.31	65	50358	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
32) Benzene-d6	5.34	84	167654	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.00%
36) 1,2-Dichloropropane-d6	6.33	67	62146	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.80%
41) Toluene-d8	7.57	98	148393	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.00%
43) trans-1,3-Dichloropropene-	7.85	79	19483	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	8.31	63	129425	49.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.68%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	48413	4.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	54322	4.70	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	50599	4.377	ug/L	98
3) Chloromethane	1.33	50	73619	5.004	ug/L	97
5) Vinyl chloride	1.40	62	65330	4.676	ug/L	99
6) Bromomethane	1.63	94	27667	4.388	ug/L	96
8) Chloroethane	1.70	64	39396	4.771	ug/L	100
9) Trichlorofluoromethane	1.88	101	78560	4.829	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	42759	4.775	ug/L	98
12) 1,1-Dichloroethene	2.29	96	40834	4.819	ug/L	88
13) Acetone	2.35	43	113409	47.573	ug/L	98
14) Carbon disulfide	2.48	76	129051	4.850	ug/L	97
15) Methyl Acetate	2.63	43	26480	4.191	ug/L	99
16) Methylene chloride	2.70	84	49352	4.622	ug/L	94
17) Methyl tert-butyl Ether	3.01	73	113740	4.468	ug/L	99
18) trans-1,2-Dichloroethene	2.98	96	43351	4.802	ug/L	94
19) 1,1-Dichloroethane	3.44	63	100400	4.797	ug/L	99
21) 2-Butanone	4.30	43	170873	45.012	ug/L	97
22) cis-1,2-Dichloroethene	4.23	96	49165	4.608	ug/L	93

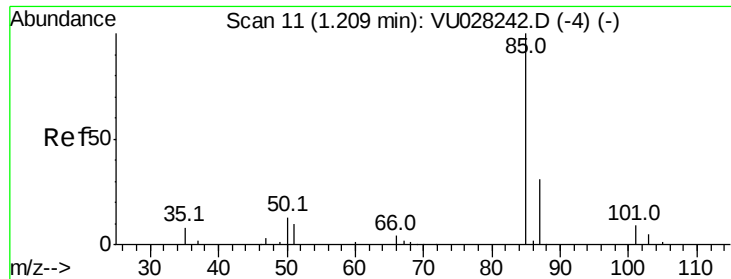
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112018\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	19839	4.751	uq/L	91
25) Chloroform	4.67	83	93521	4.129	uq/L	99
27) 1,2-Dichloroethane	5.40	62	58509	4.519	uq/L	100
29) 1,1,1-Trichloroethane	4.91	97	67558	4.575	uq/L	98
30) Cyclohexane	4.99	56	84539	4.374	uq/L	98
31) Carbon tetrachloride	5.13	117	55637	4.592	uq/L	100
33) Benzene	5.39	78	199205	4.609	uq/L	100
34) Trichloroethene	6.19	95	49829	4.709	uq/L	97
35) Methylcyclohexane	6.41	83	77306	4.637	uq/L	99
37) 1,2-Dichloropropane	6.43	63	56320	4.567	uq/L	100
38) Bromodichloromethane	6.76	83	62248	4.629	uq/L	98
39) cis-1,3-Dichloropropene	7.27	75	72667	4.649	uq/L	98
40) 4-Methyl-2-pentanone	7.47	43	388540	44.067	uq/L	99
42) Toluene	7.64	91	208248	4.754	uq/L	99
44) trans-1,3-Dichloropropene	7.88	75	54764	4.657	uq/L	100
45) 1,1,2-Trichloroethane	8.07	97	34292	4.602	uq/L	98
47) Tetrachloroethene	8.22	164	34681	4.722	uq/L	97
48) 2-Hexanone	8.37	43	288746	45.931	uq/L	99
49) Dibromochloromethane	8.48	129	35456	4.701	uq/L	96
50) 1,2-Dibromoethane	8.59	107	30986	4.601	uq/L	97
51) Chlorobenzene	9.12	112	121044	4.798	uq/L	98
52) Ethylbenzene	9.25	91	216961	4.602	uq/L	92
53) m,p-xylene	9.38	106	78283	4.786	uq/L	99
54) o-xylene	9.78	106	77021	4.714	uq/L	94
55) Styrene	9.79	104	134491	4.904	uq/L	100
56) Isopropylbenzene	10.17	105	204193	4.666	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	46189	4.822	uq/L	97
59) 1,2,3-Trichloropropane	10.49	75	31878	4.473	uq/L	99
61) Bromoform	9.96	173	19340	4.909	uq/L	98
62) 1,3-Dichlorobenzene	11.42	146	85149	4.503	uq/L	96
63) 1,4-Dichlorobenzene	11.51	146	88041	4.564	uq/L	98
65) 1,2-Dichlorobenzene	11.88	146	84330	4.548	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	6110	4.230	uq/L #	90
67) 1,3,5-Trichlorobenzene	12.89	180	64715	4.474	uq/L	98
68) 1,2,4-trichlorobenzene	13.50	180	53173	4.400	uq/L	95
69) Naphthalene	13.74	128	98429	4.583	uq/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	52618	4.596	uq/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.377 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

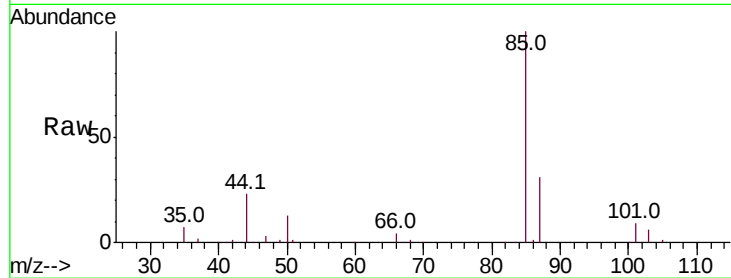
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 50599

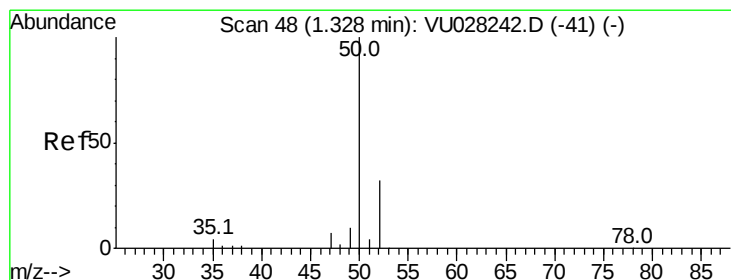
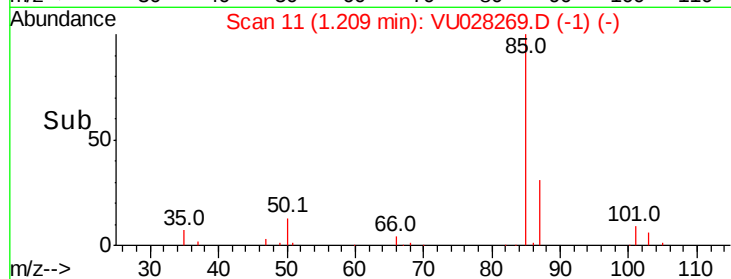
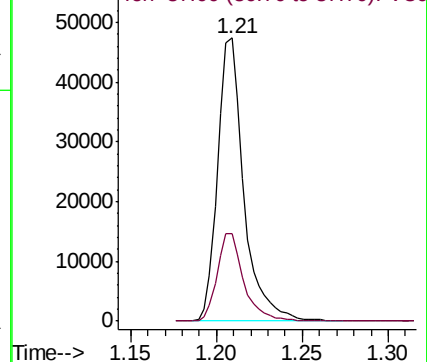
Ion Ratio Lower Upper

85 100

87 31.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 5.004 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028269.D

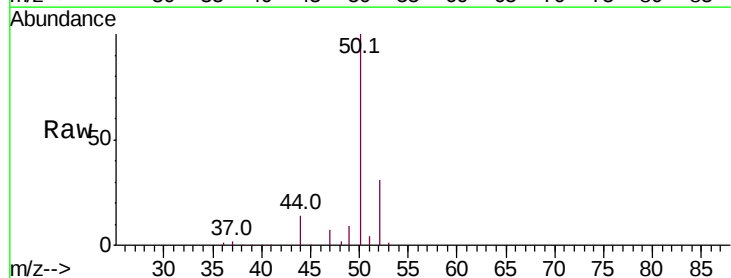
Acq: 20 Nov 2018 10:36

Tgt Ion: 50 Resp: 73619

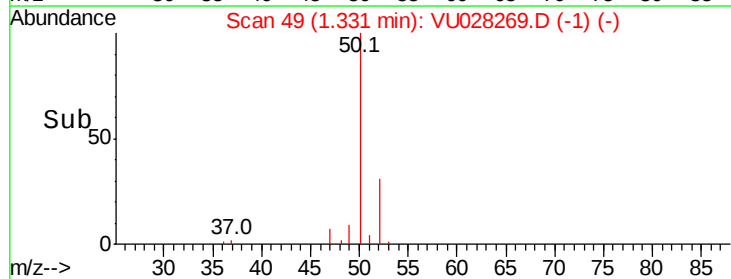
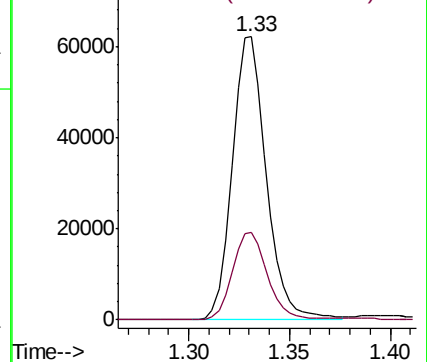
Ion Ratio Lower Upper

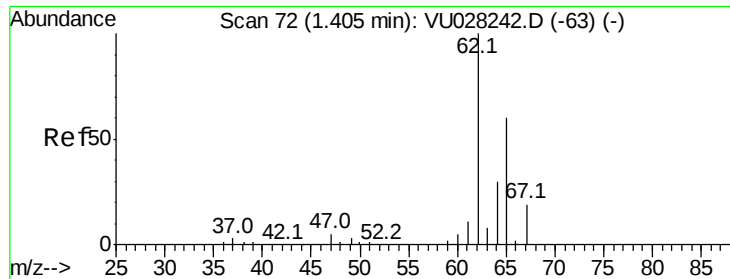
50 100

52 30.9 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0
Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.676 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

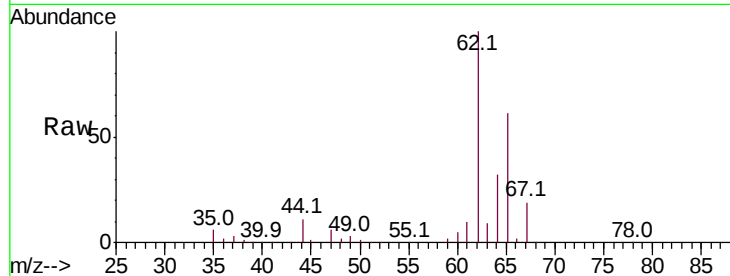
ClientSampleId :

Tot Ion: 62 Resp: 65330

Ion Ratio Lower Upper

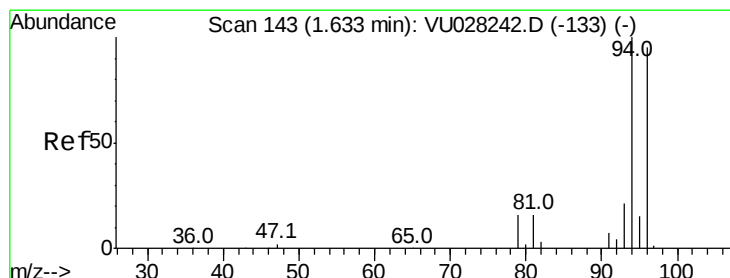
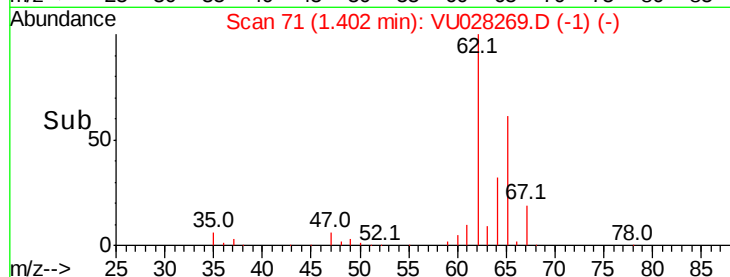
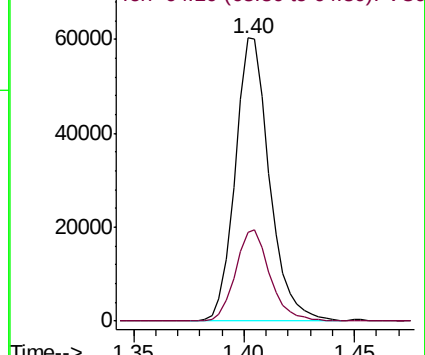
62 100

64 31.6 21.7 40.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.388 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU028269.D

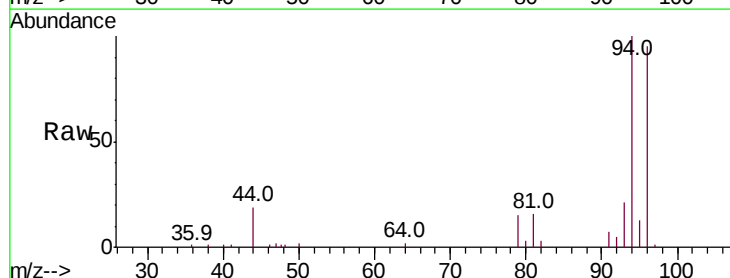
Acq: 20 Nov 2018 10:36

Tgt Ion: 94 Resp: 27667

Ion Ratio Lower Upper

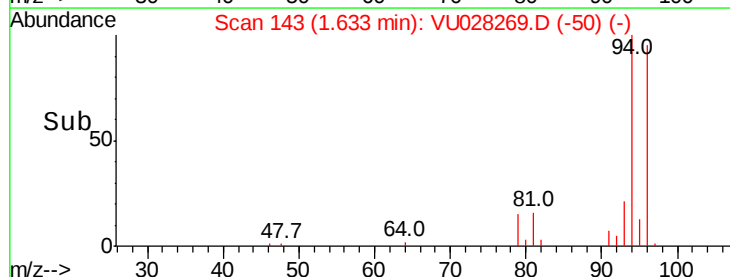
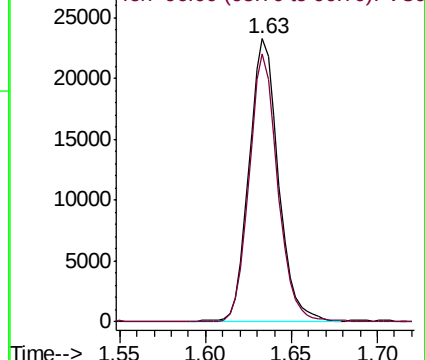
94 100

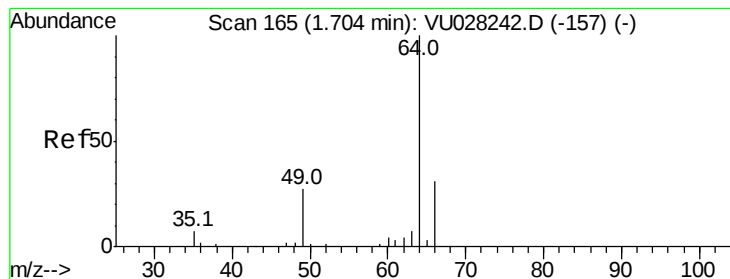
96 94.8 63.6 118.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.771 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

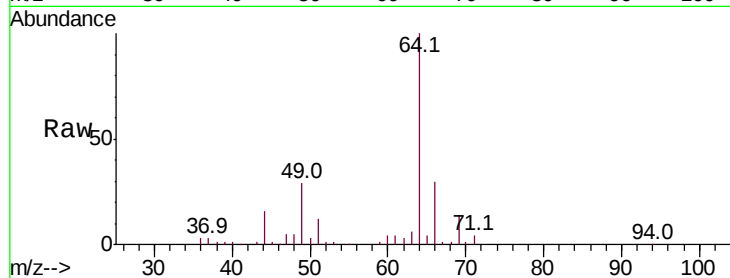
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 39396

Ion Ratio Lower Upper

64 100

66 29.8 20.7 38.5



Abundance Ion 64.10 (63.80 to 64.80): VU028242.D (-157) (-)

Ion 66.05 (65.75 to 66.75): VU028242.D (-157) (-)

1.70

30000

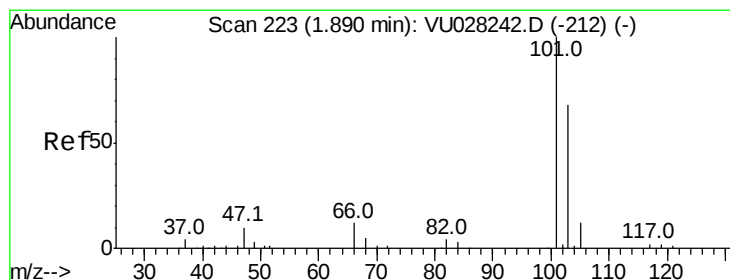
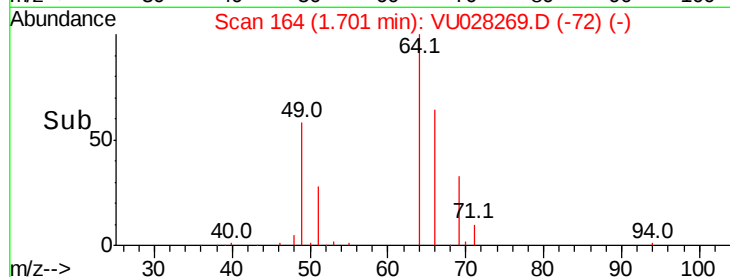
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 4.829 ug/L

RT: 1.88 min Scan# 221

Delta R.T. -0.01 min

Lab File: VU028269.D

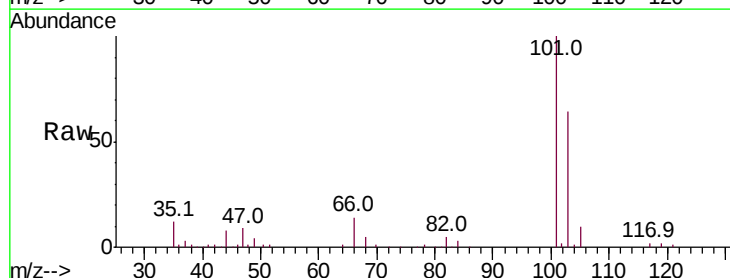
Acq: 20 Nov 2018 10:36

Tgt Ion: 101 Resp: 78560

Ion Ratio Lower Upper

101 100

103 65.7 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU028242.D (-212) (-)

Ion 103.00 (102.70 to 103.70): VU028242.D (-212) (-)

1.88

60000

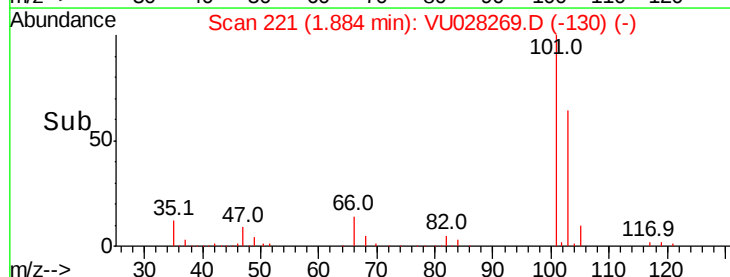
40000

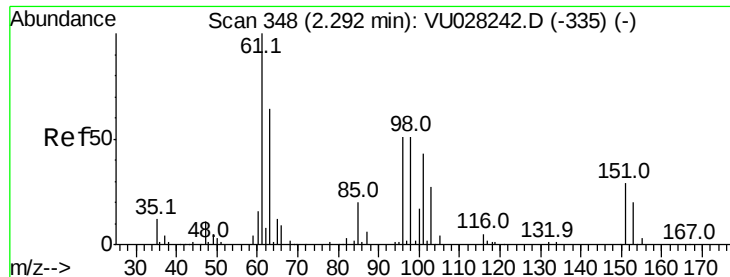
20000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 4.775 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.01 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

ClientSampleId :

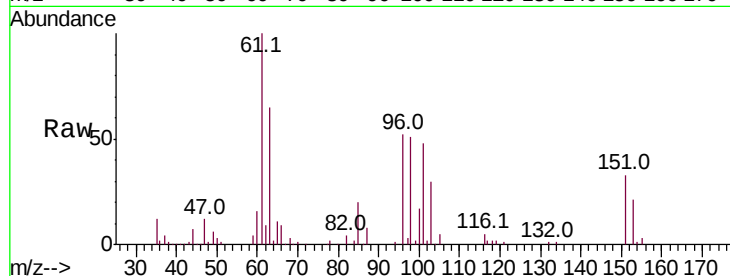
Tot Ion:101 Resp: 42759

Ion Ratio Lower Upper

101 100

85 45.0 37.4 56.2

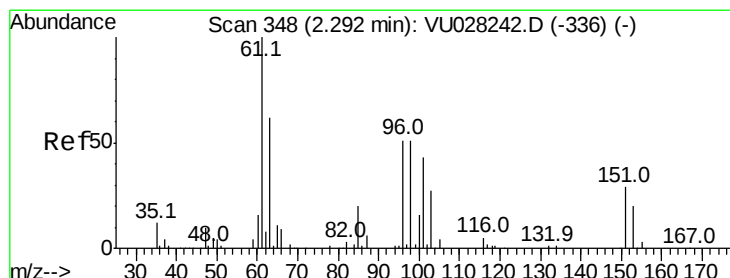
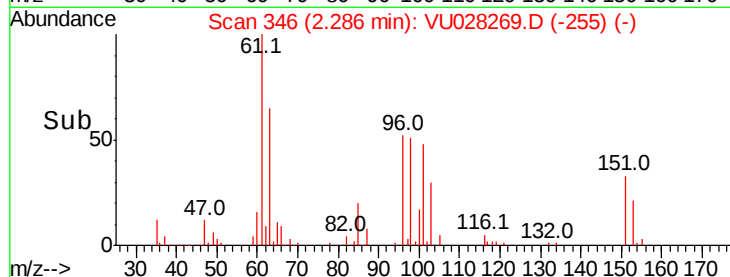
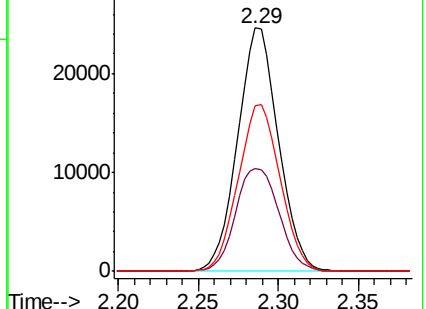
151 70.2 55.0 82.4



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: 4.819 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.01 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

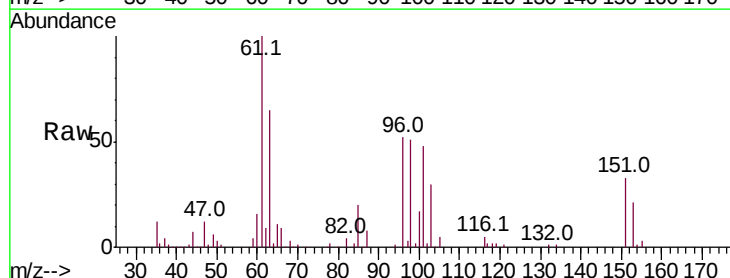
Tgt Ion: 96 Resp: 40834

Ion Ratio Lower Upper

96 100

61 190.7 145.5 270.1

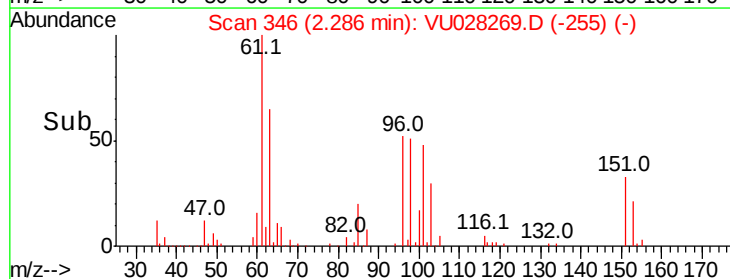
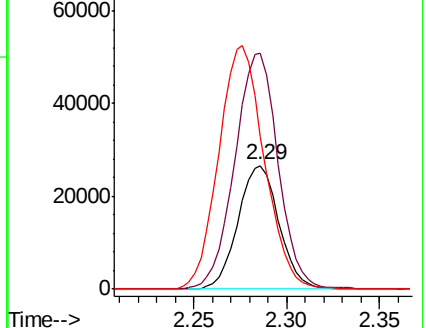
63 123.7 98.6 183.2

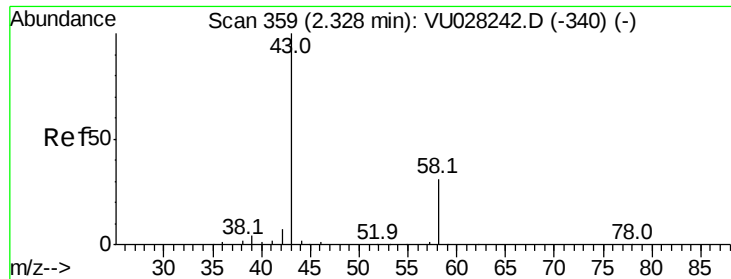


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.573 ug/L

RT: 2.35 min Scan# 365

Delta R.T. 0.02 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

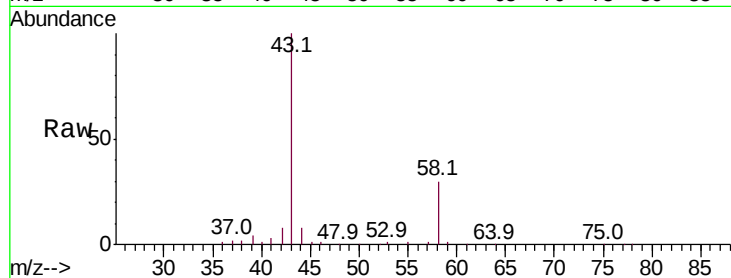
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 113409

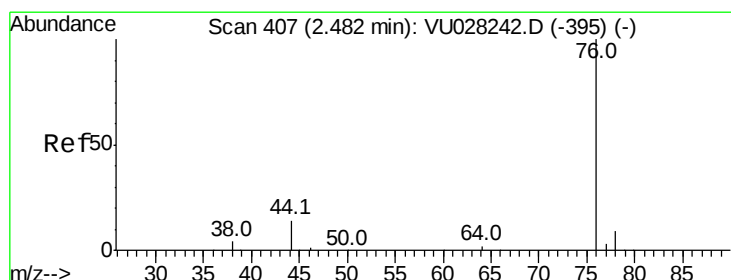
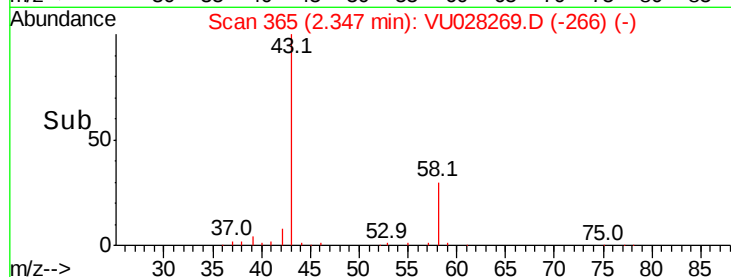
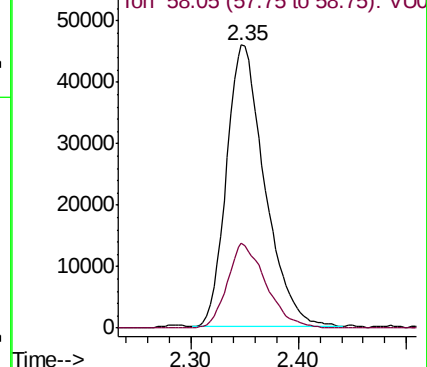
Ion Ratio Lower Upper

43 100

58 30.4 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU028242.D (-340) (-)



#14

Carbon disulfide

Concen: 4.850 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028269.D

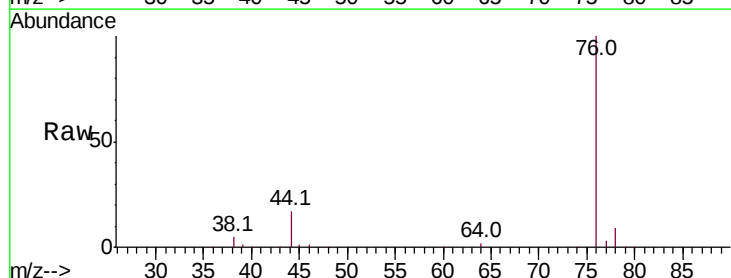
Acq: 20 Nov 2018 10:36

Tgt Ion: 76 Resp: 129051

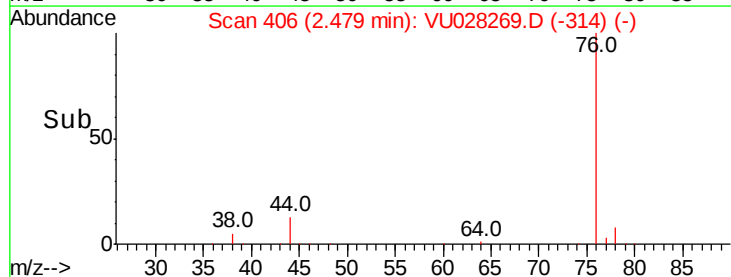
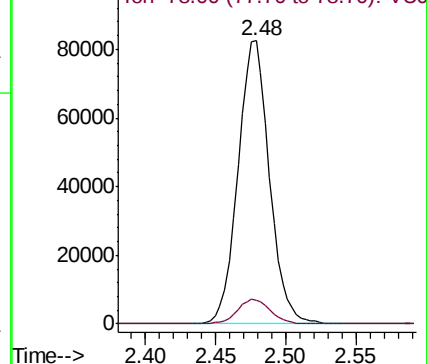
Ion Ratio Lower Upper

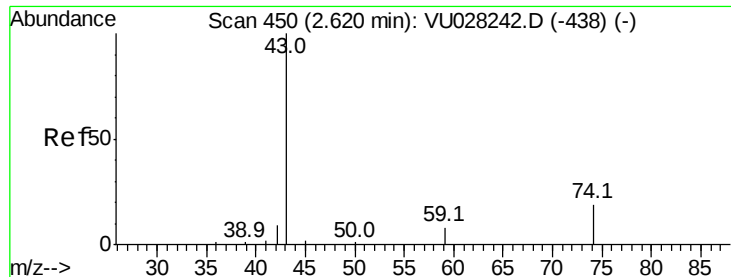
76 100

78 8.5 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VU028242.D (-395) (-)





#15

Methvl Acetate

Concen: 4.191 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.01 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

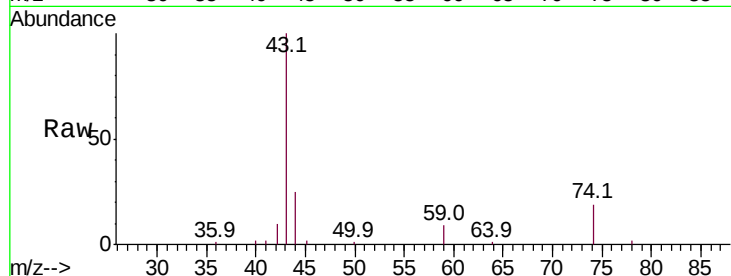
ClientSampled :

Tot Ion: 43 Resp: 26480

Ion Ratio Lower Upper

43 100

74 18.8 14.7 22.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.63

15000

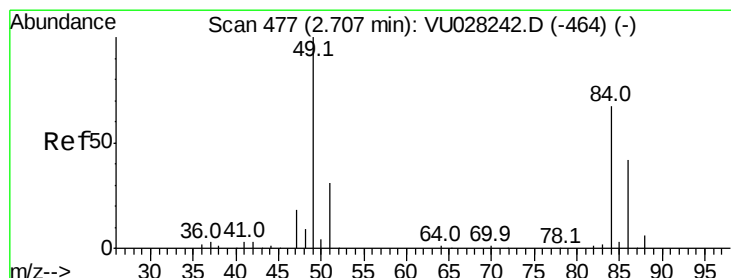
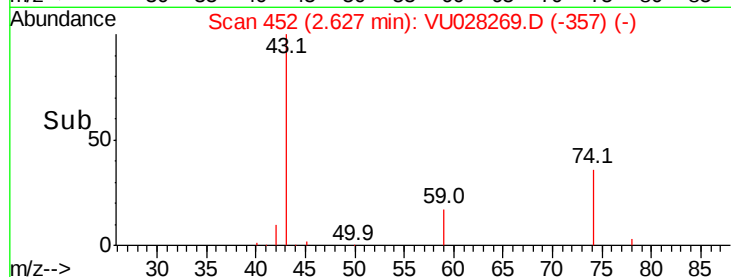
10000

5000

0

2.55 2.60 2.65 2.70

Time-->



#16

Methylene chloride

Concen: 4.622 ug/L

RT: 2.70 min Scan# 475

Delta R.T. -0.01 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

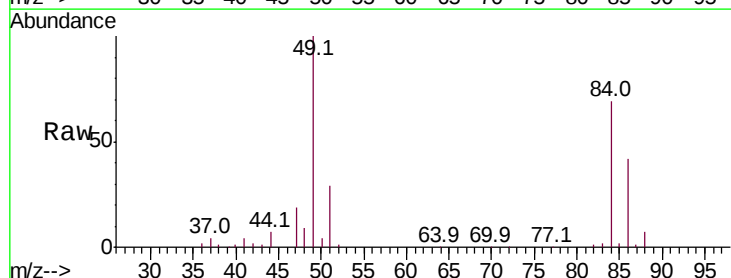
Tgt Ion: 84 Resp: 49352

Ion Ratio Lower Upper

84 100

86 61.4 45.3 84.1

49 145.0 107.9 200.5



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

50000

40000

30000

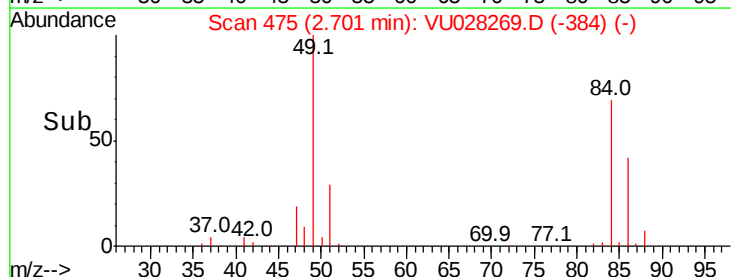
20000

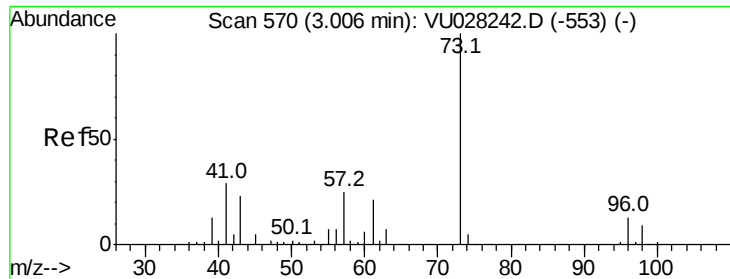
10000

0

2.65 2.70 2.75 2.80

Time-->



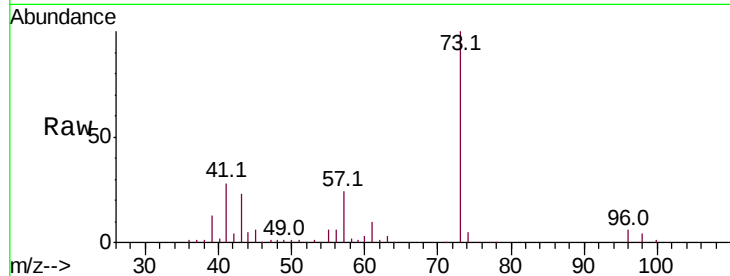


#17

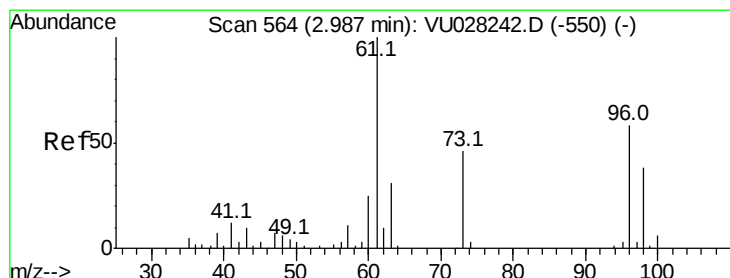
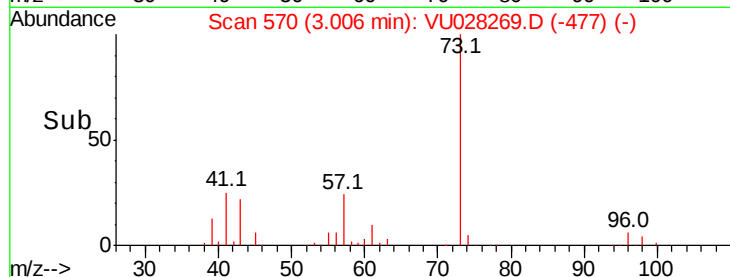
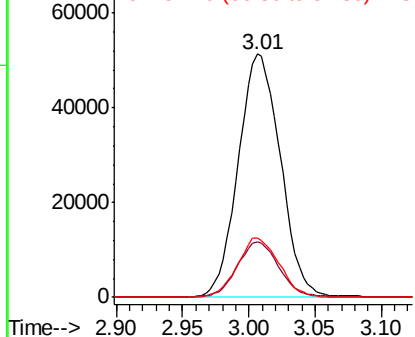
Methyl tert-butyl Ether
 Concen: 4.468 ug/L
 RT: 3.01 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 113740
 Ion Ratio Lower Upper
 73 100
 43 22.9 18.8 28.2
 57 24.1 19.2 28.8



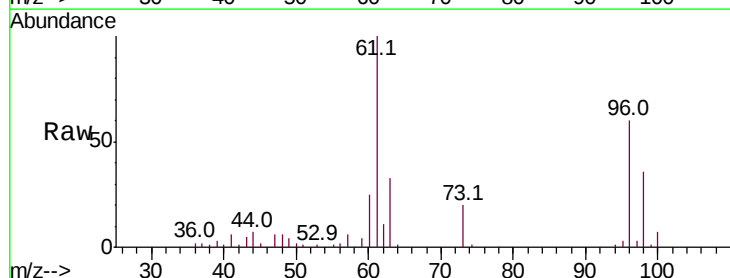
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



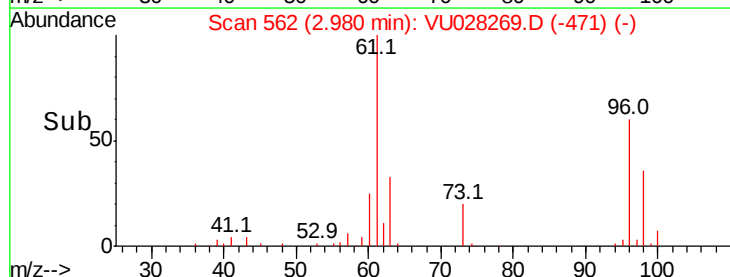
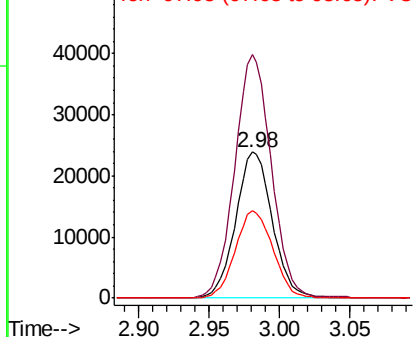
#18

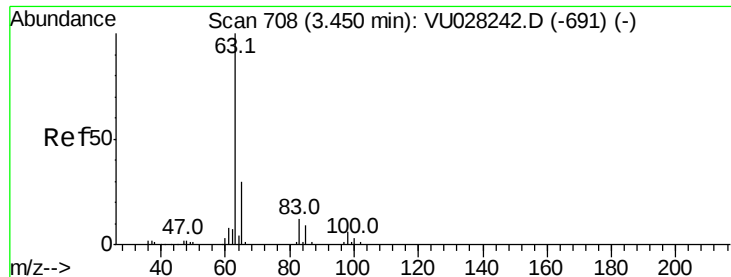
trans-1,2-Dichloroethene
 Concen: 4.802 ug/L
 RT: 2.98 min Scan# 562
 Delta R.T. -0.01 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Tgt Ion: 96 Resp: 43351
 Ion Ratio Lower Upper
 96 100
 61 166.5 122.2 227.0
 98 59.9 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 4.797 ug/L

RT: 3.44 min Scan# 706

Delta R.T. -0.01 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

ClientSampled :

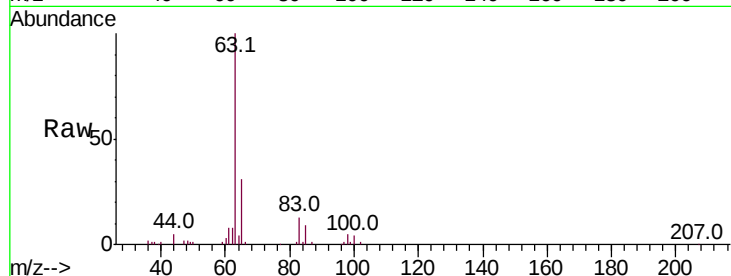
Tot Ion: 63 Resp: 100400

Ion Ratio Lower Upper

63 100

65 30.7 21.2 39.4

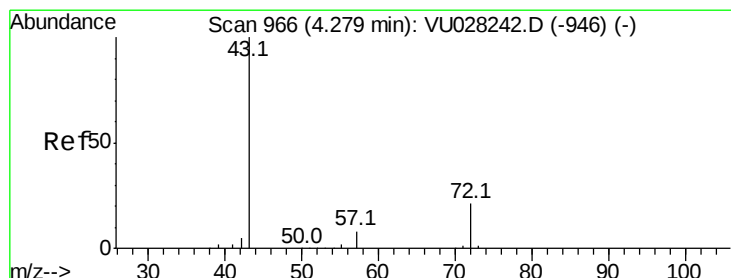
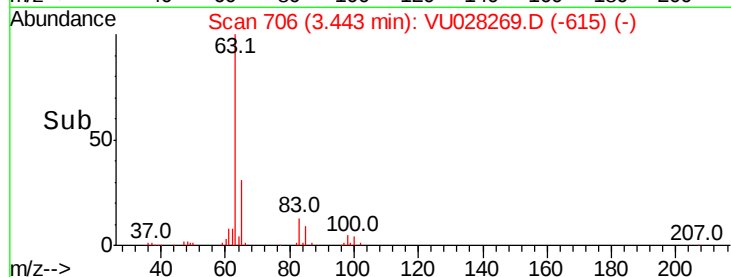
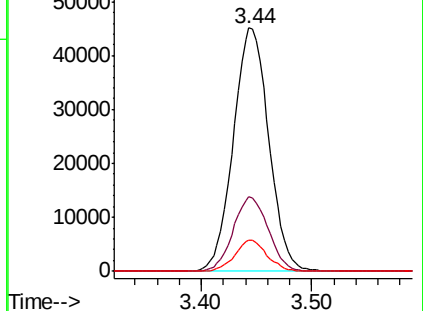
83 12.9 8.8 16.4



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



#21

2-Butanone

Concen: 45.012 ug/L

RT: 4.30 min Scan# 971

Delta R.T. 0.02 min

Lab File: VU028269.D

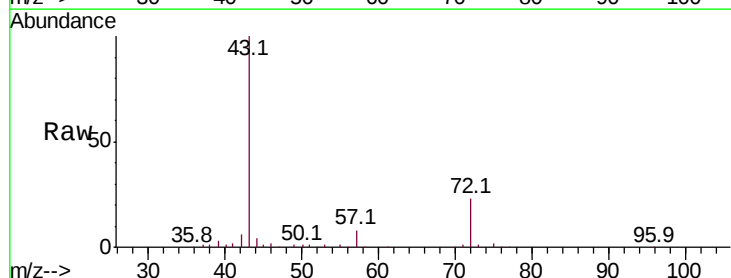
Acq: 20 Nov 2018 10:36

Tgt Ion: 43 Resp: 170873

Ion Ratio Lower Upper

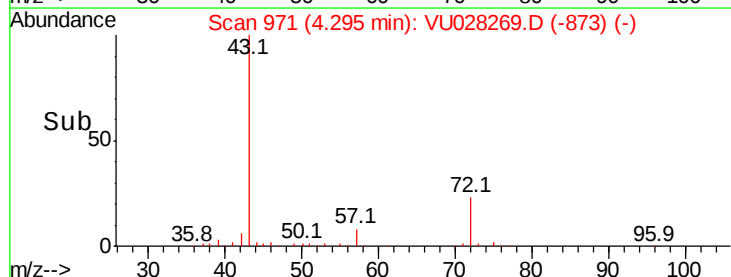
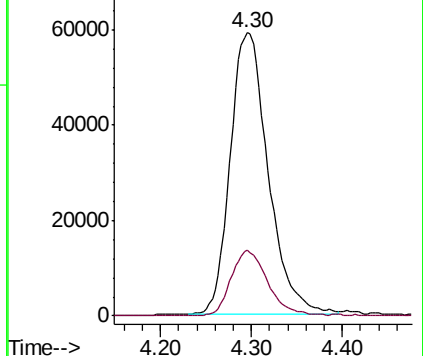
43 100

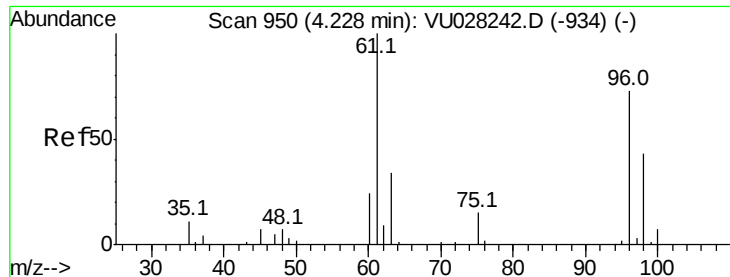
72 22.7 10.7 32.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.608 ug/L

RT: 4.23 min Scan# 950

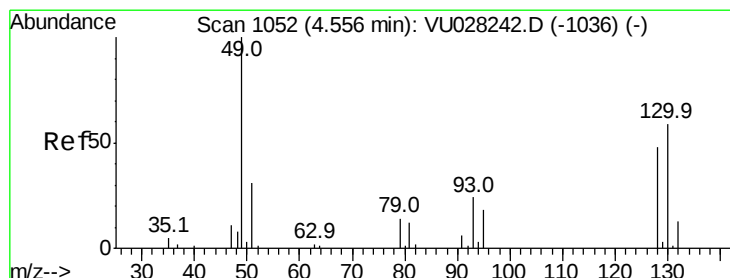
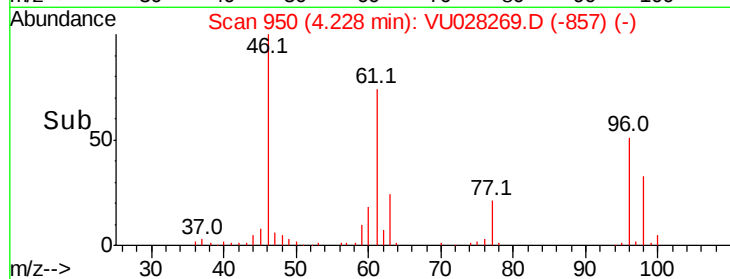
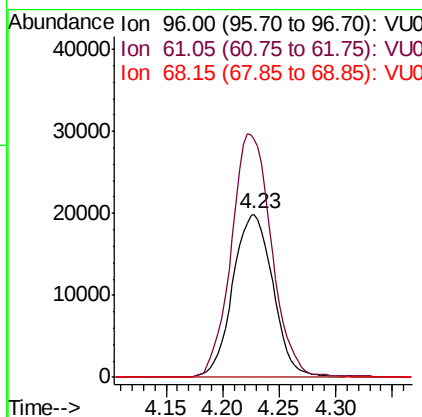
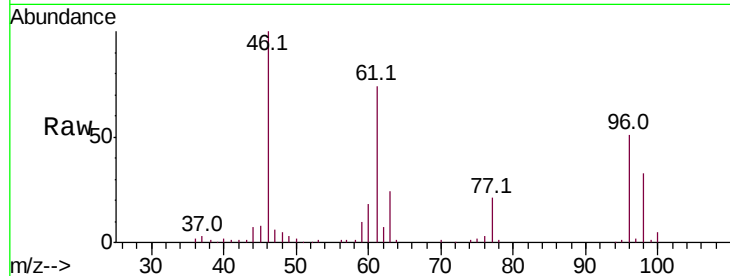
Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.7	108.0	200.6
68	0.0	0.0	0.0



#23

Bromochloromethane

Concen: 4.751 ug/L

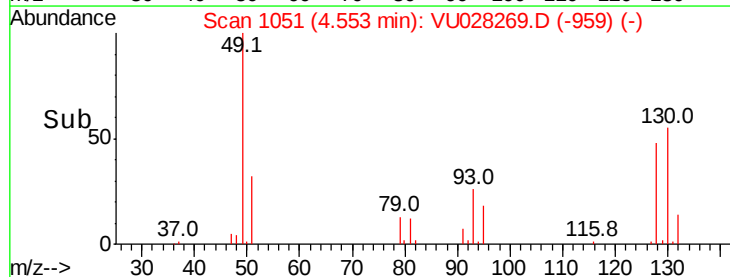
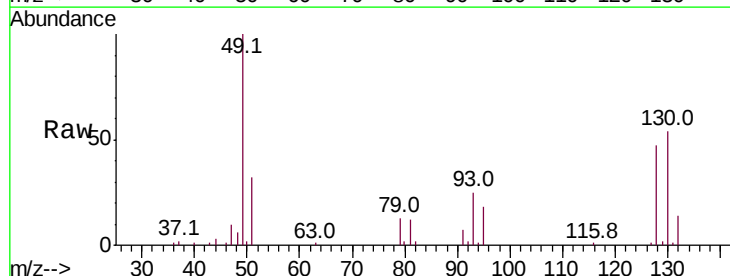
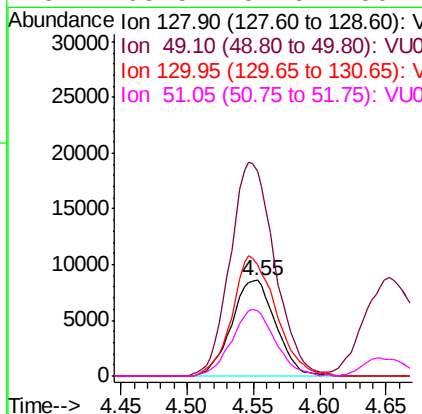
RT: 4.55 min Scan# 1051

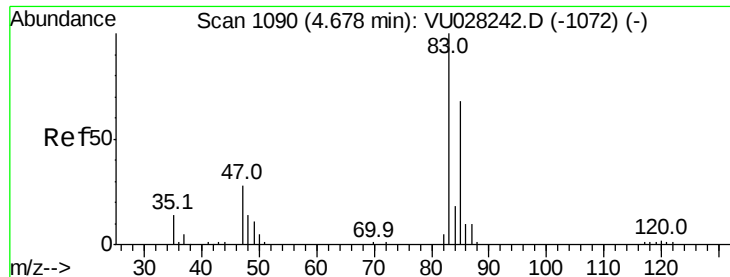
Delta R.T. -0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Tgt Ion	Ratio	Lower	Upper
128	100		
49	213.0	162.0	300.8
130	115.5	87.7	162.9
51	68.5	57.6	86.4





#25

Chloroform

Concen: 4.129 ug/L

RT: 4.67 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

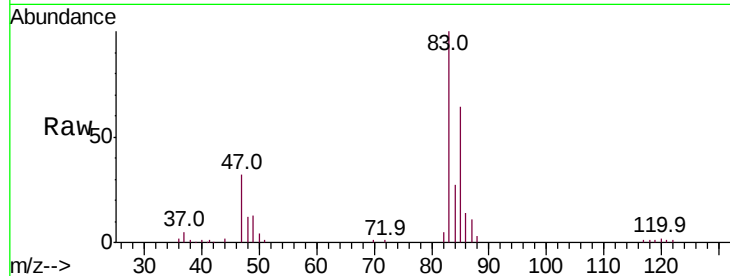
ClientSampleId :

Tot Ion: 83 Resp: 93521

Ion Ratio Lower Upper

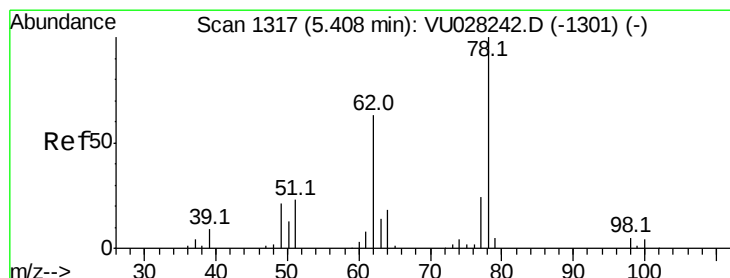
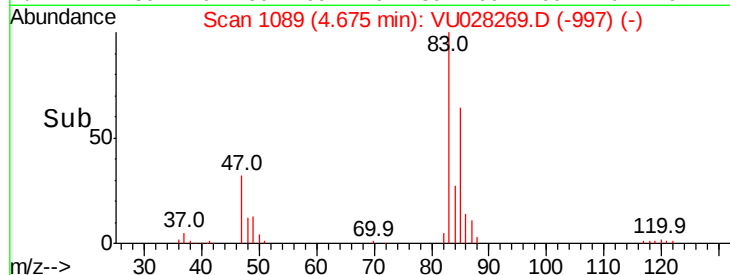
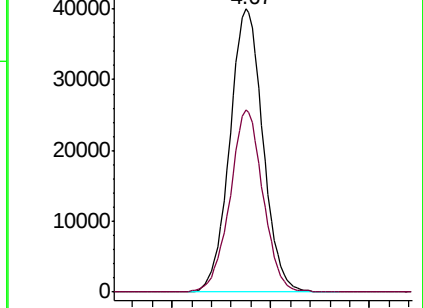
83 100

85 64.2 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 4.519 ug/L

RT: 5.40 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VU028269.D

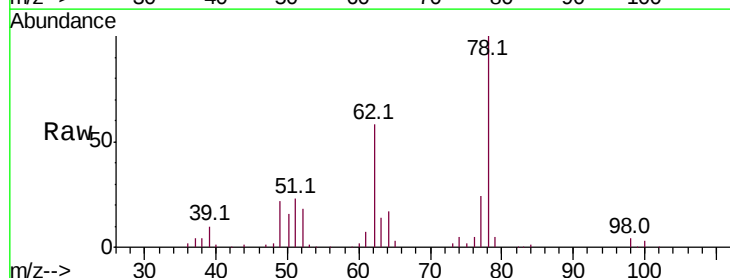
Acq: 20 Nov 2018 10:36

Tgt Ion: 62 Resp: 58509

Ion Ratio Lower Upper

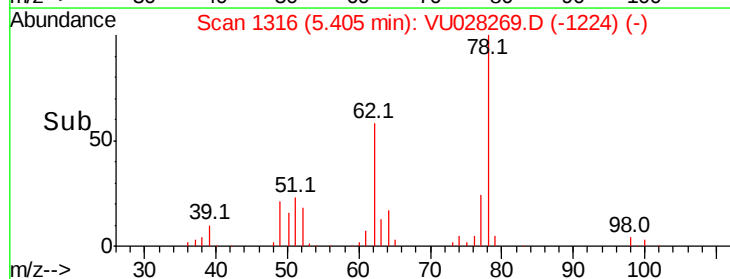
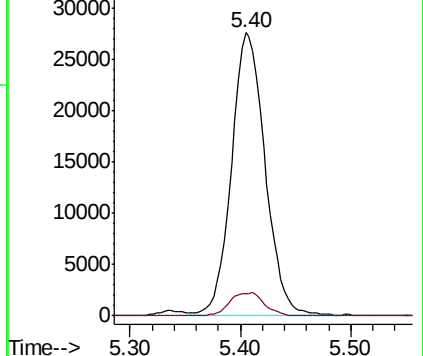
62 100

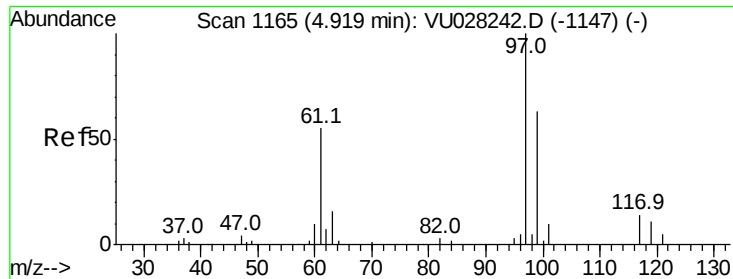
98 7.7 6.2 9.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

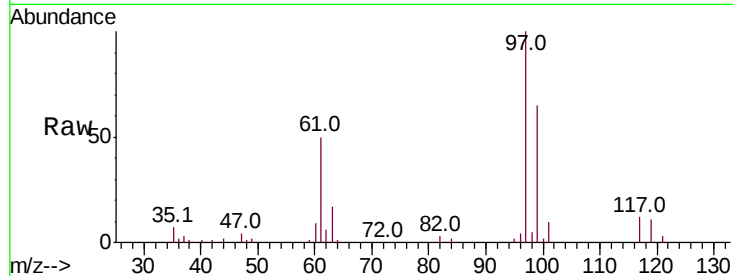




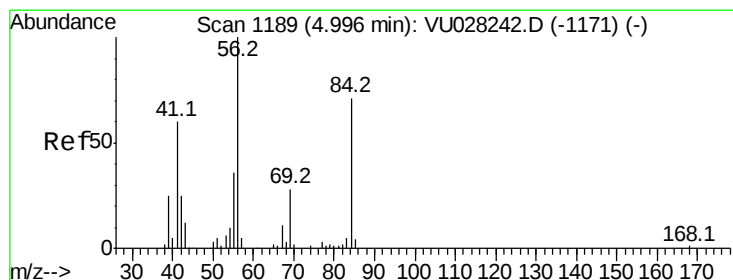
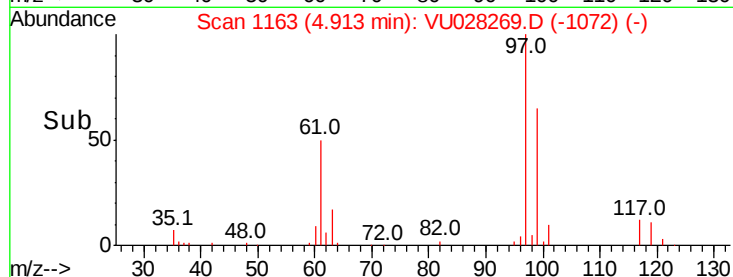
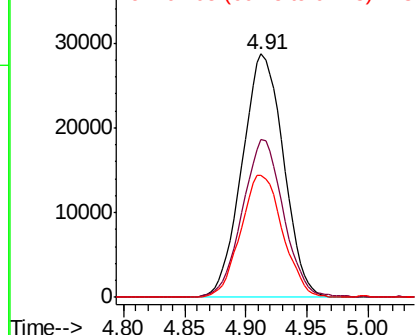
#29
 1,1,1-Trichloroethane
 Concen: 4.575 ug/L
 RT: 4.91 min Scan# 1163
 Delta R.T. -0.01 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 67558
 Ion Ratio Lower Upper
 97 100
 99 64.2 50.8 76.2
 61 50.5 42.6 64.0

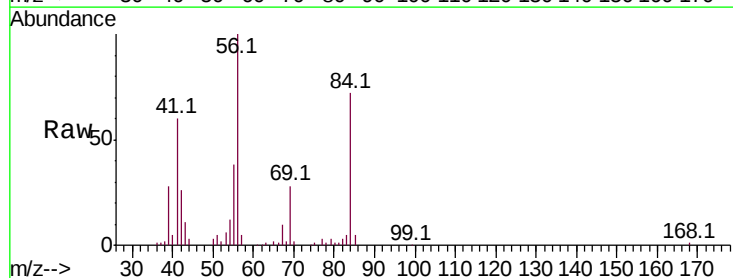


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

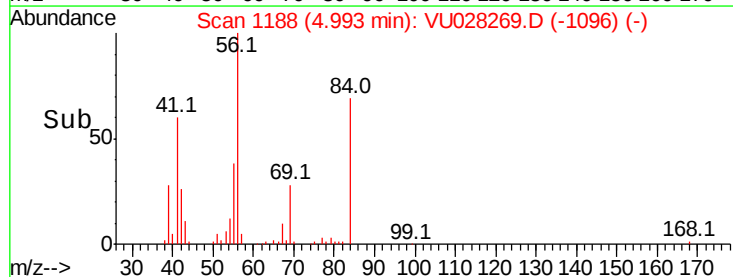
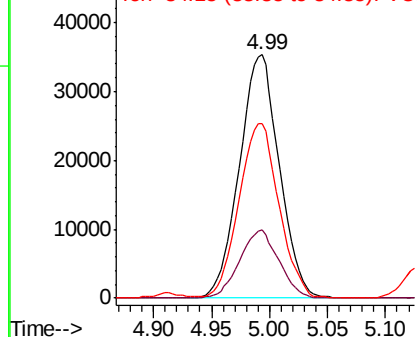


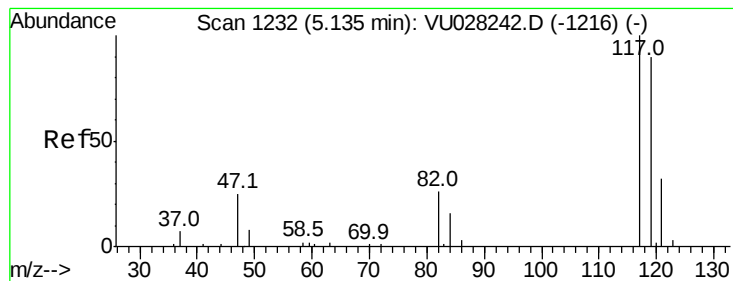
#30
 Cyclohexane
 Concen: 4.374 ug/L
 RT: 4.99 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Tgt Ion: 56 Resp: 84539
 Ion Ratio Lower Upper
 56 100
 69 27.3 22.0 33.0
 84 72.0 56.0 84.0



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.592 ug/L

RT: 5.13 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

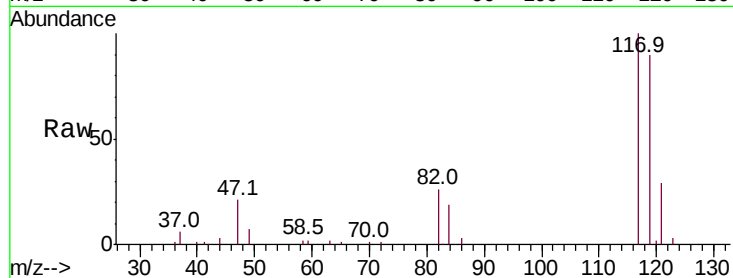
ClientSampleId :

Tot Ion:117 Resp: 55637

Ion Ratio Lower Upper

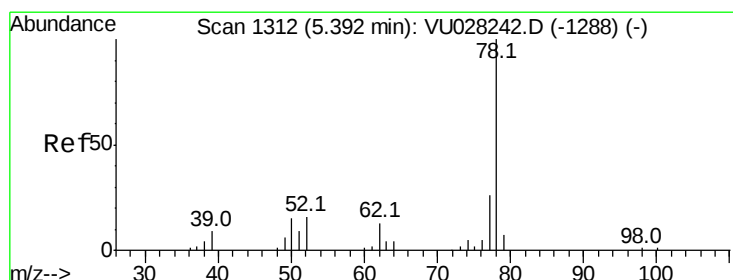
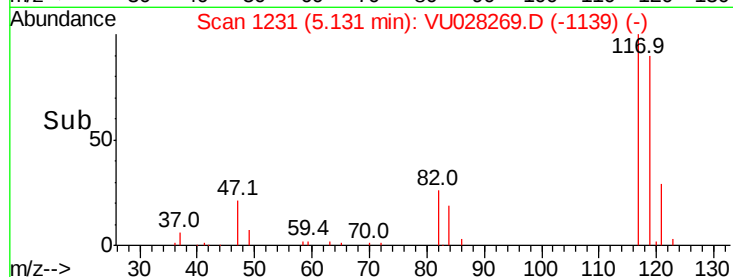
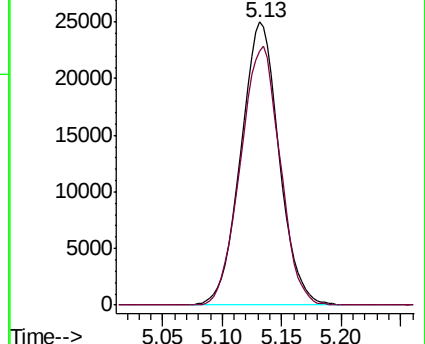
117 100

119 94.4 75.6 113.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.609 ug/L

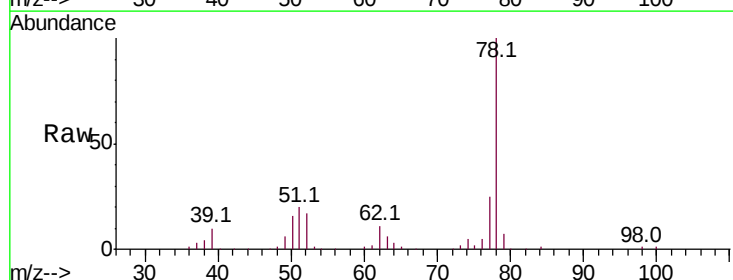
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

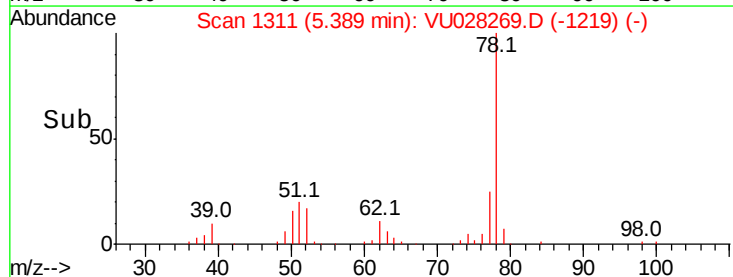
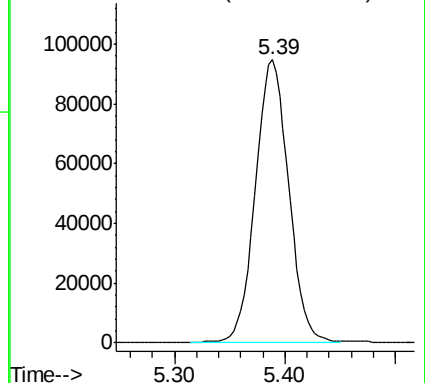
Lab File: VU028269.D

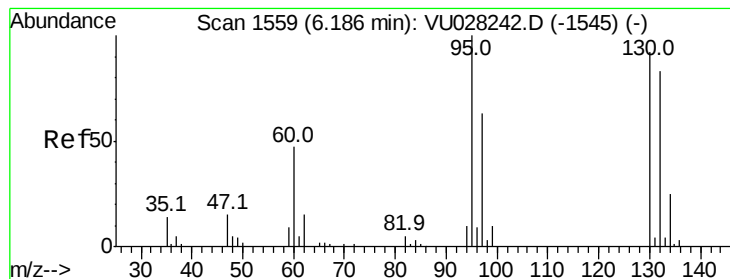
Acq: 20 Nov 2018 10:36

Tgt Ion: 78 Resp: 199205



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.709 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 49829

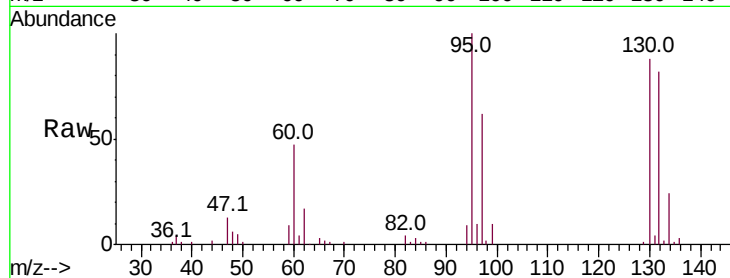
Ion Ratio Lower Upper

95 100

97 61.7 46.5 86.3

132 81.9 58.9 109.3

130 88.3 61.3 113.9

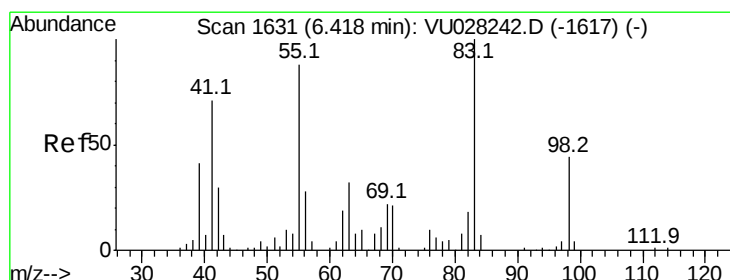
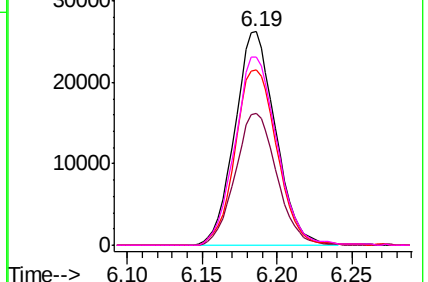
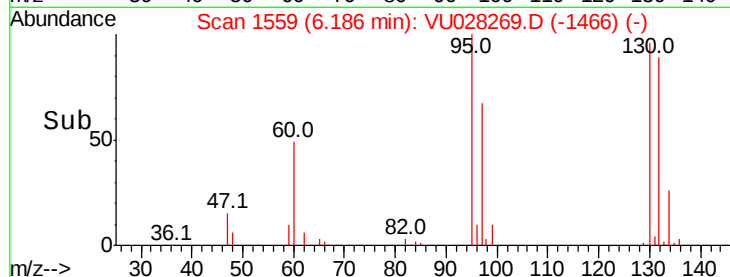


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.637 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

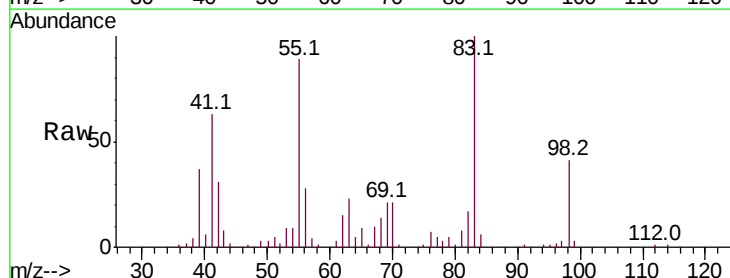
Tgt Ion: 83 Resp: 77306

Ion Ratio Lower Upper

83 100

55 90.7 73.2 109.8

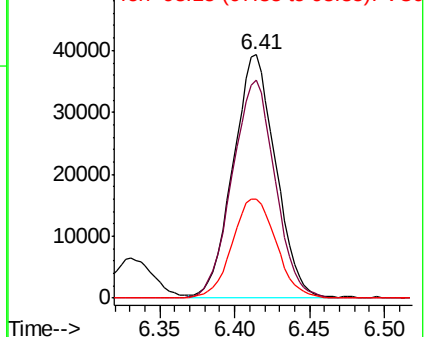
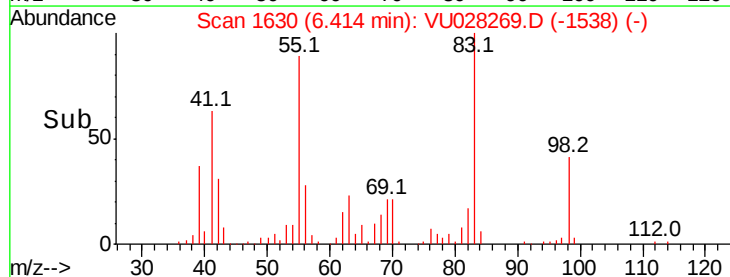
98 42.4 33.4 50.2

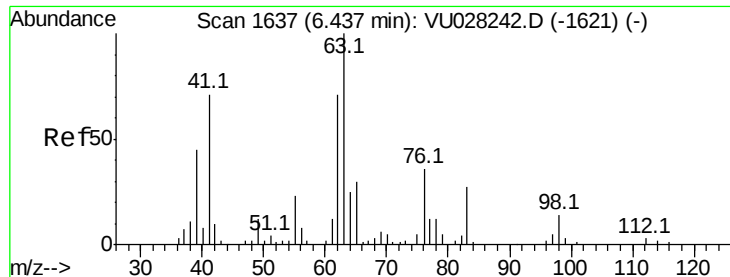


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

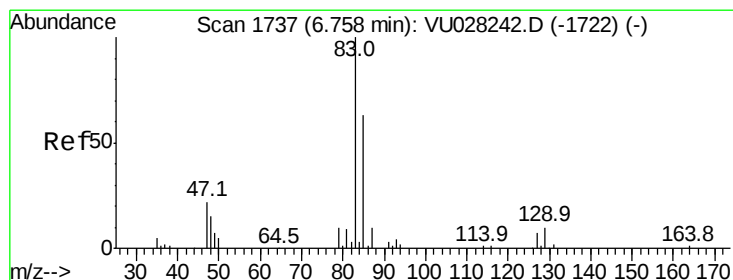
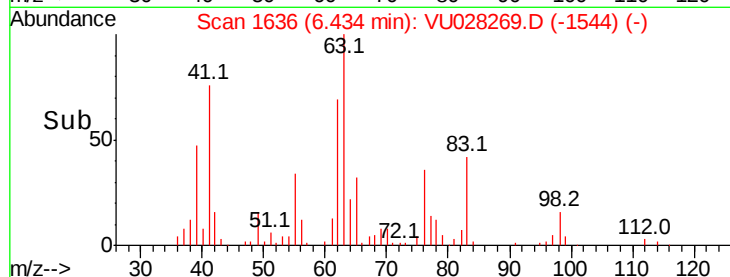
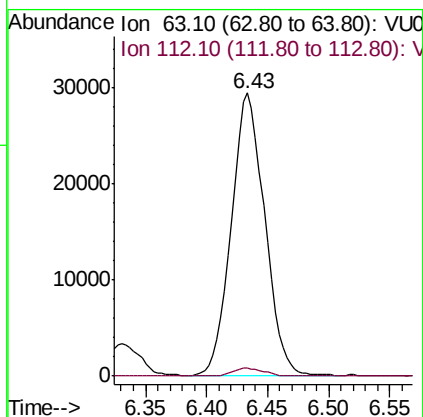
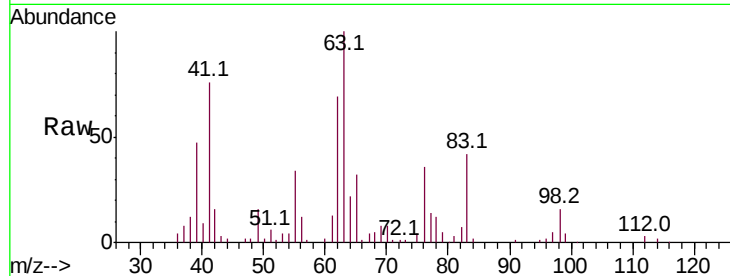




#37
 1,2-Dichloropropane
 Concen: 4.567 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

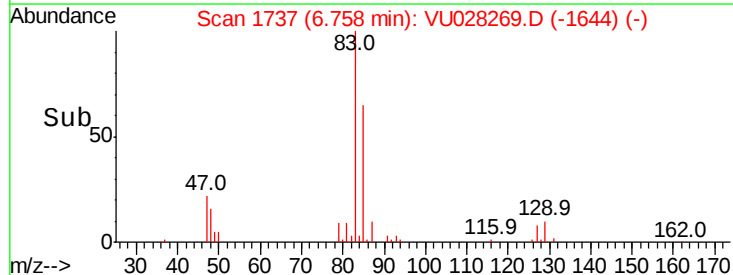
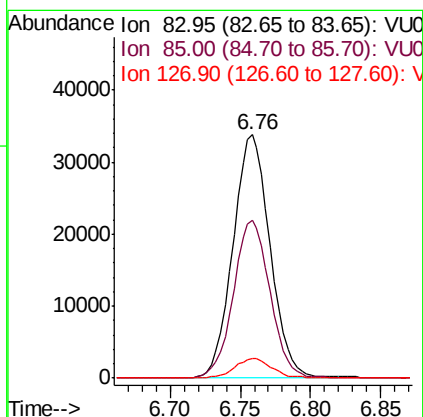
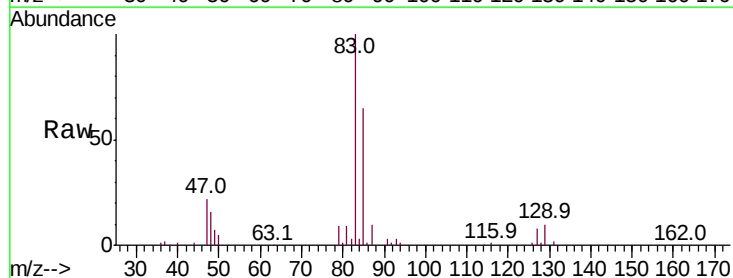
Instrument :
 MSVOA_U
 ClientSampleId :

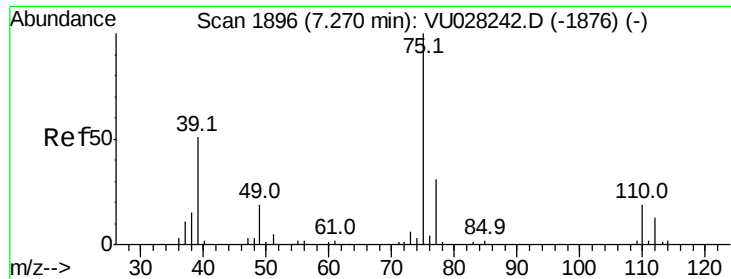
Tot Ion: 63 Resp: 56320
 Ion Ratio Lower Upper
 63 100
 112 2.7 2.2 3.2



#38
 Bromodichloromethane
 Concen: 4.629 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Tgt Ion: 83 Resp: 62248
 Ion Ratio Lower Upper
 83 100
 85 64.7 44.2 82.0
 127 8.1 6.2 9.4

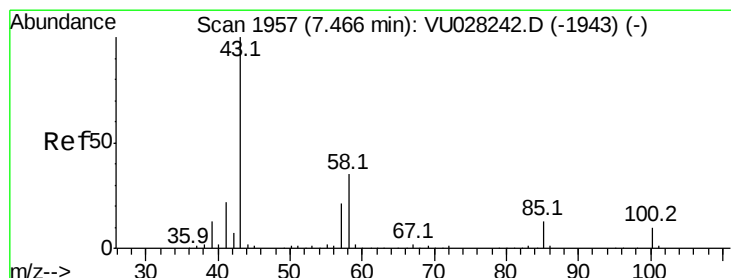
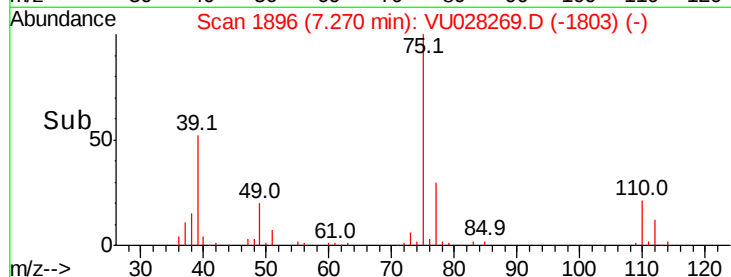
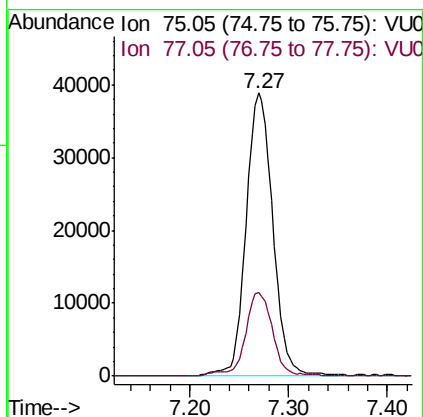
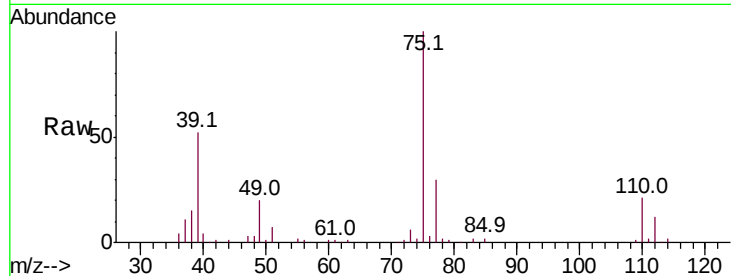




#39
 cis-1,3-Dichloropropene
 Concen: 4.649 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

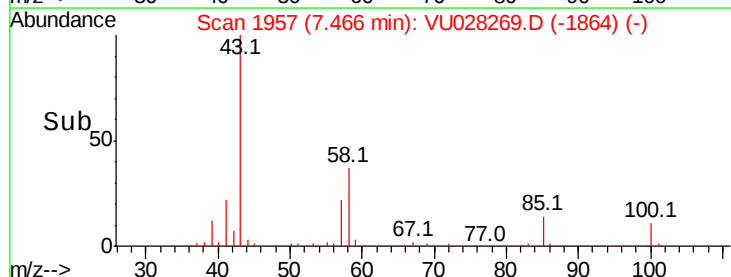
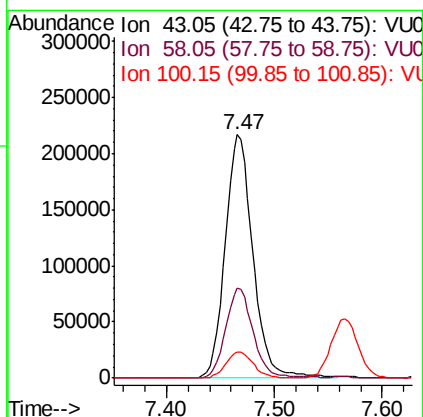
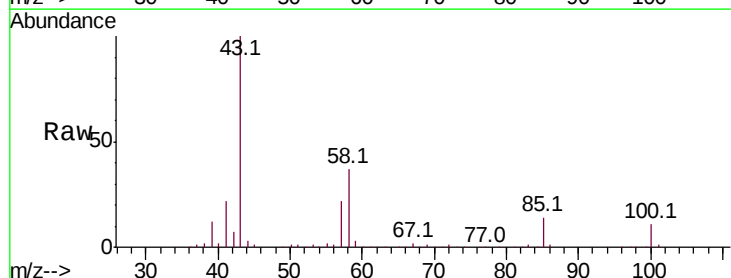
Instrument :
 MSVOA_U
 ClientSampleId :

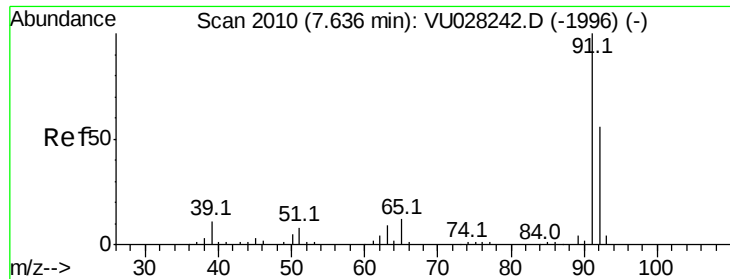
Tot Ion: 75 Resp: 72667
 Ion Ratio Lower Upper
 75 100
 77 29.6 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 44.067 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Tgt Ion: 43 Resp: 388540
 Ion Ratio Lower Upper
 43 100
 58 36.4 28.8 43.2
 100 10.7 8.0 12.0





#42

Toluene

Concen: 4.754 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

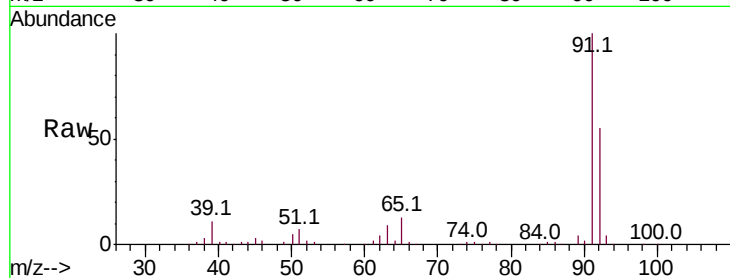
ClientSampleId :

Tot Ion: 91 Resp: 208248

Ion Ratio Lower Upper

91 100

92 55.2 39.0 72.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

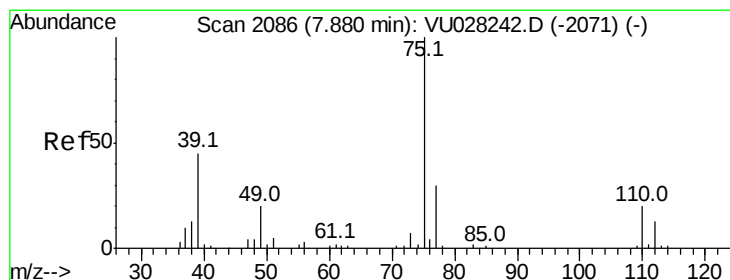
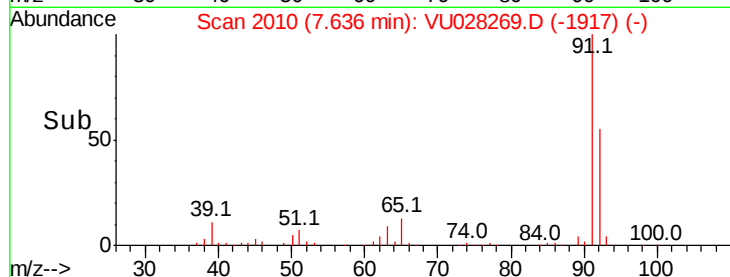
7.64

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.657 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU028269.D

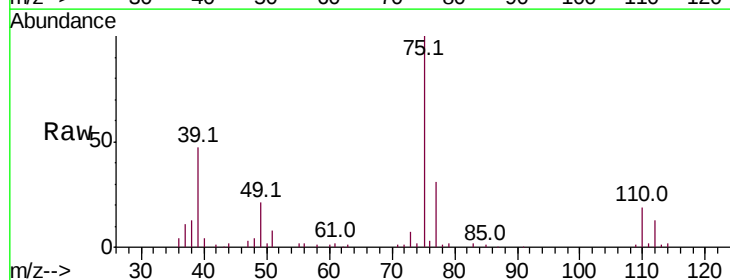
Acq: 20 Nov 2018 10:36

Tgt Ion: 75 Resp: 54764

Ion Ratio Lower Upper

75 100

77 31.1 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

7.88

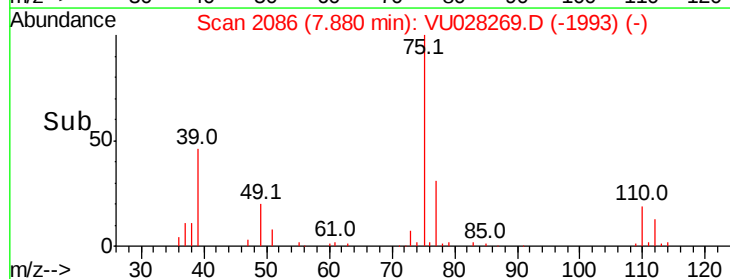
30000

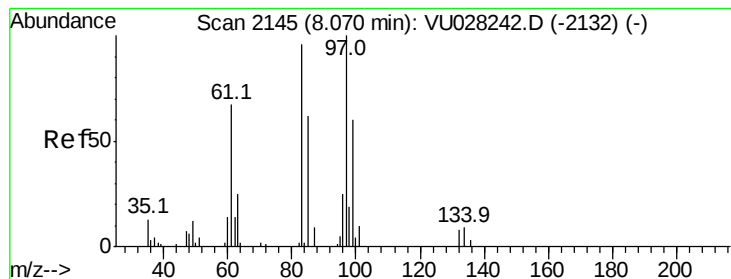
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.602 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 34292

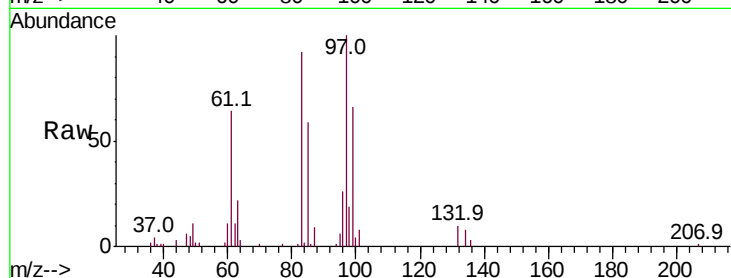
Ion Ratio Lower Upper

97 100

99 65.9 44.2 82.0

83 92.5 63.3 117.5

85 59.0 41.9 77.9

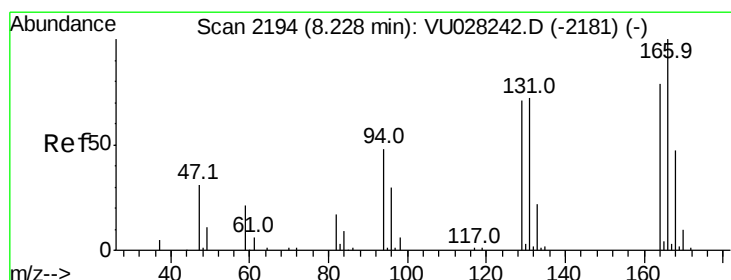
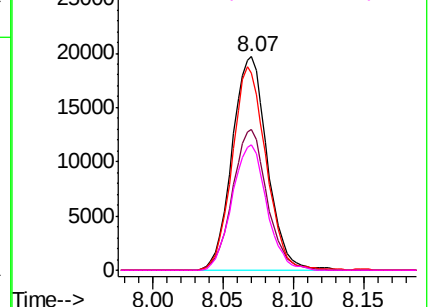
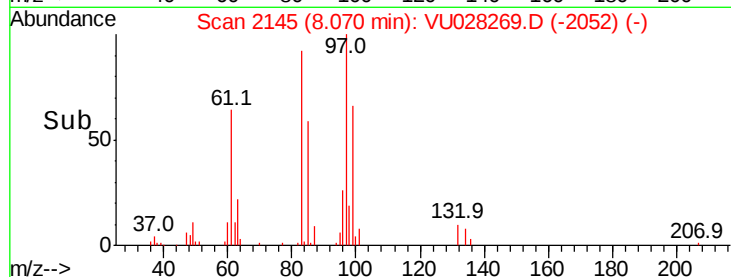


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.722 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Tgt Ion:164 Resp: 34681

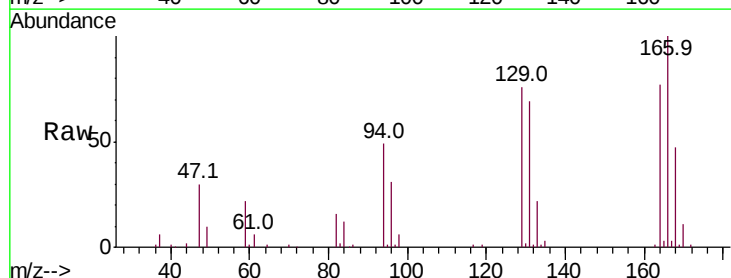
Ion Ratio Lower Upper

164 100

129 99.5 67.6 125.6

131 90.2 66.3 123.1

166 130.2 89.2 165.6

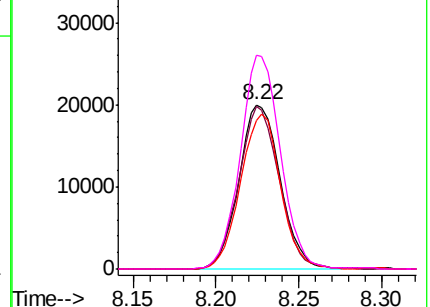
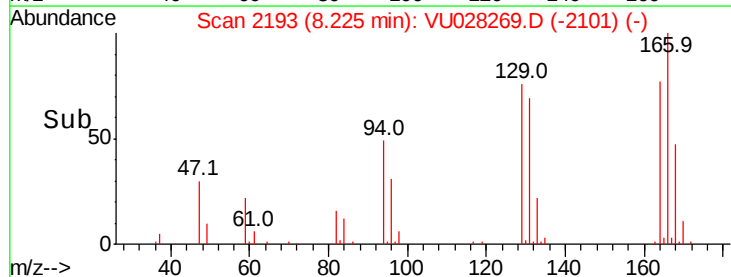


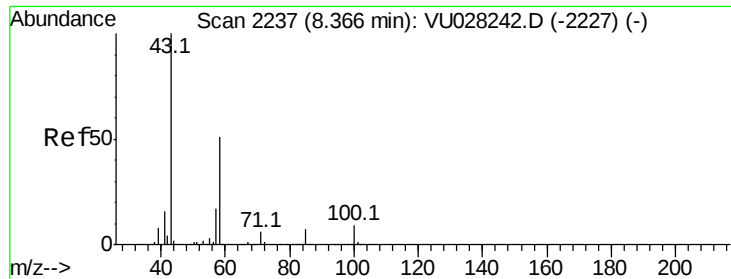
Abundance Ion 163.90 (163.60 to 164.60): V

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

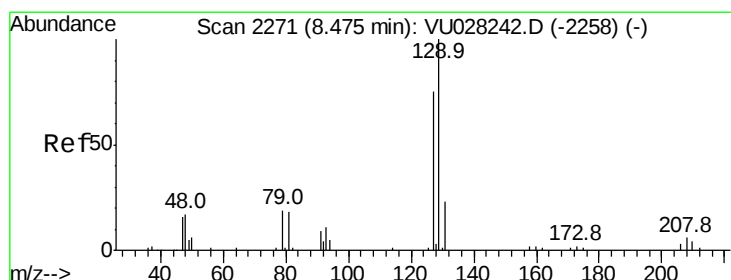
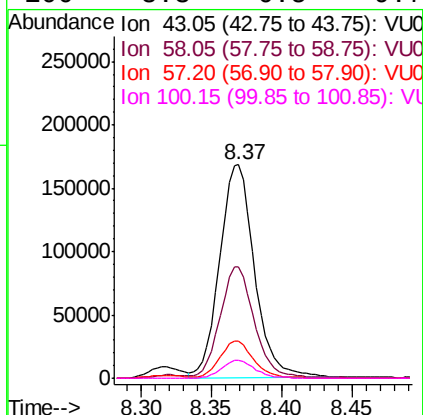
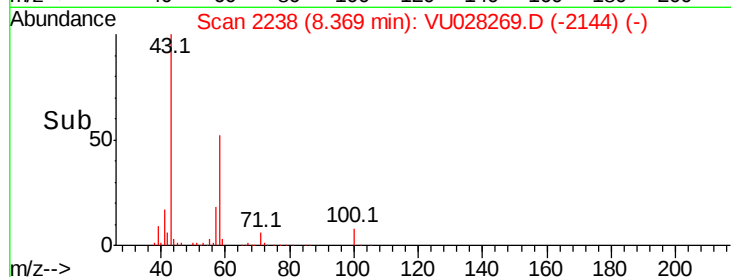
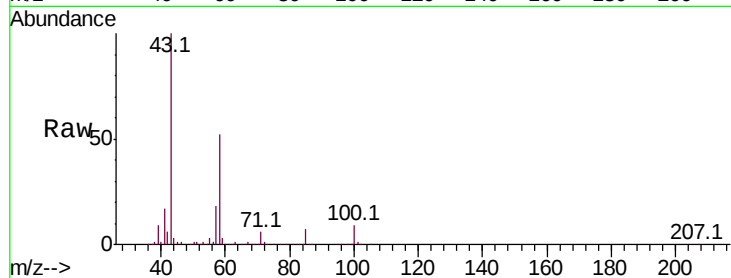




#48
2-Hexanone
Concen: 45.931 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU028269.D
Acq: 20 Nov 2018 10:36

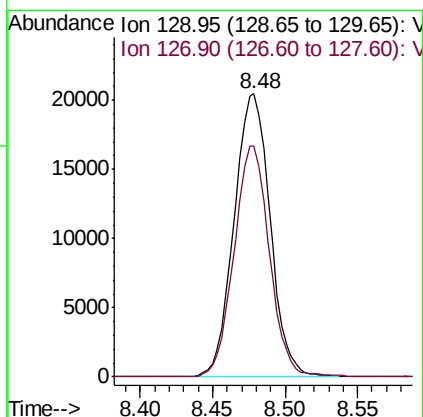
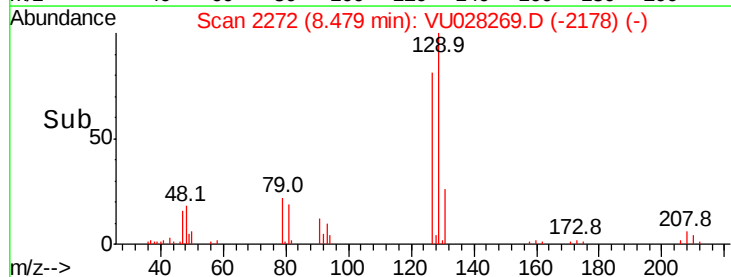
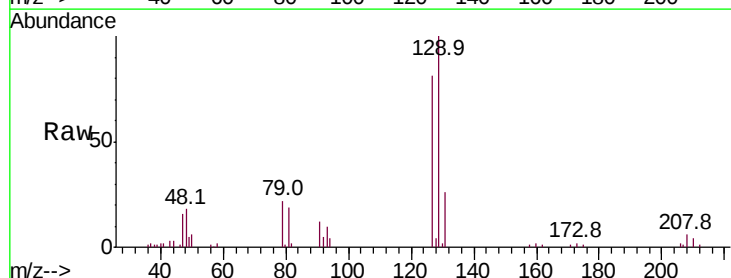
Instrument :
MSVOA_U
ClientSampled :

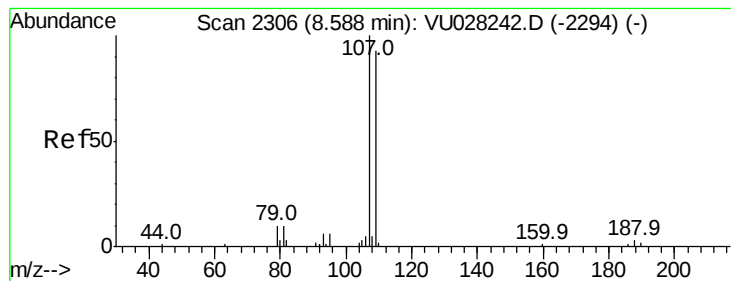
Tot Ion: 43 Resp: 288746
Ion Ratio Lower Upper
43 100
58 51.9 41.1 61.7
57 17.3 13.8 20.8
100 8.3 6.5 9.7



#49
Dibromochloromethane
Concen: 4.701 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU028269.D
Acq: 20 Nov 2018 10:36

Tgt Ion: 129 Resp: 35456
Ion Ratio Lower Upper
129 100
127 81.5 54.7 101.5





#50

1,2-Dibromoethane

Concen: 4.601 ug/L

RT: 8.59 min Scan# 2306

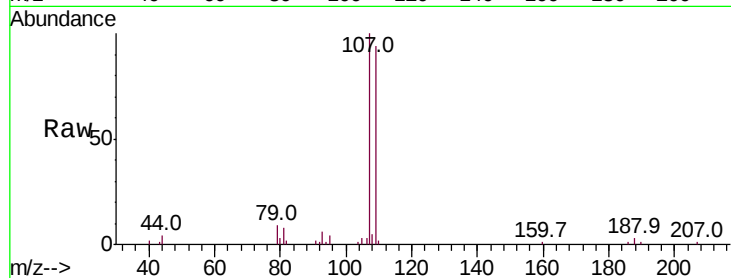
Delta R.T. 0.00 min

Lab File: VU028269.D

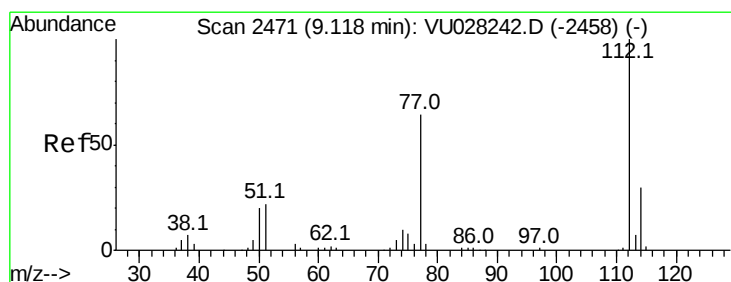
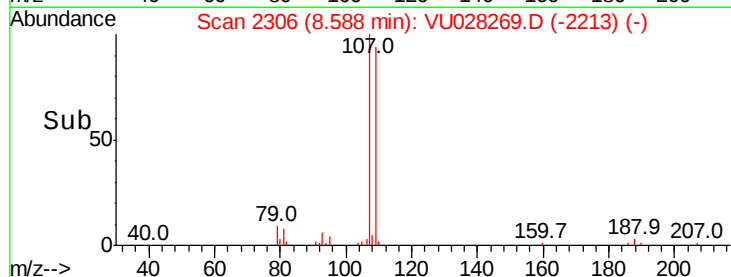
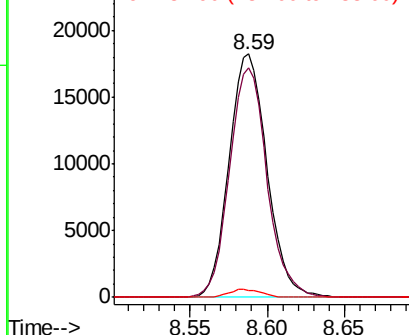
Acq: 20 Nov 2018 10:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	107	Resp:	30986
Ion	Ratio	Lower	Upper
107	100		
109	94.0	63.7	118.3
188	3.0	2.5	3.7



Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.798 ug/L

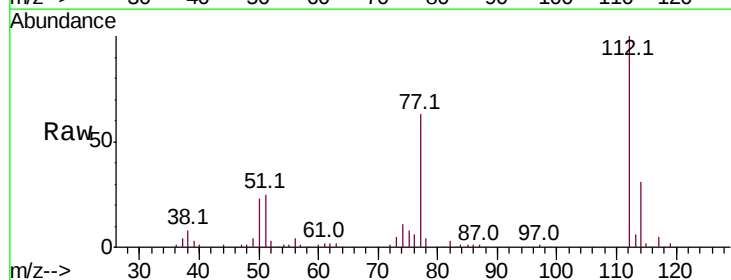
RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

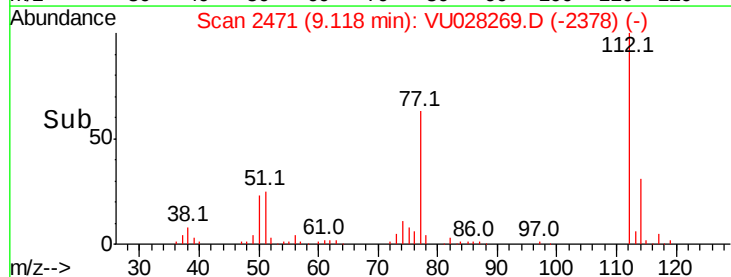
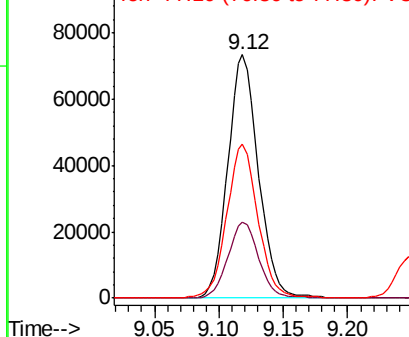
Lab File: VU028269.D

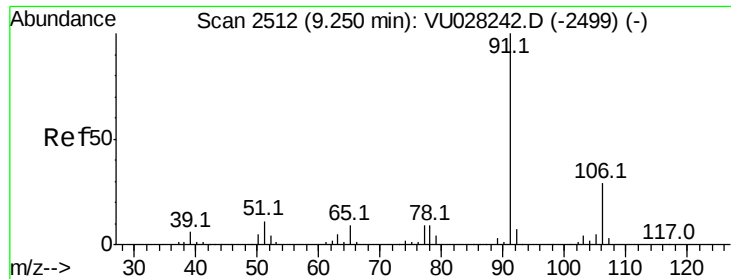
Acq: 20 Nov 2018 10:36

Tgt Ion:	112	Resp:	121044
Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.3	41.5
77	63.2	52.4	78.6



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





#52

Ethylbenzene

Concen: 4.602 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

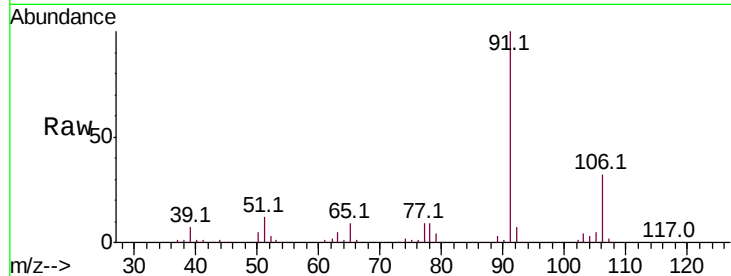
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 216961

Ion Ratio Lower Upper

91 100

106 31.5 19.3 35.9



Abundance Ion 91.15 (90.85 to 91.85): VU028242.D (-2499) (-)

Ion 106.15 (105.85 to 106.85): VU028242.D (-2499) (-)

9.25

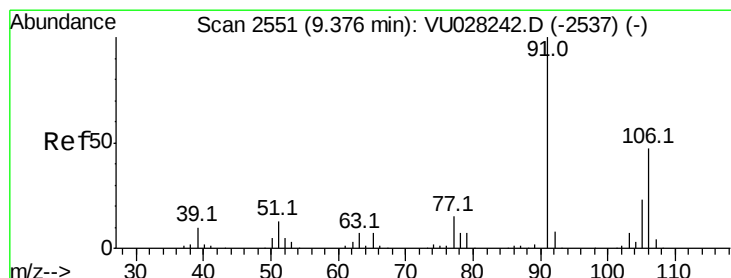
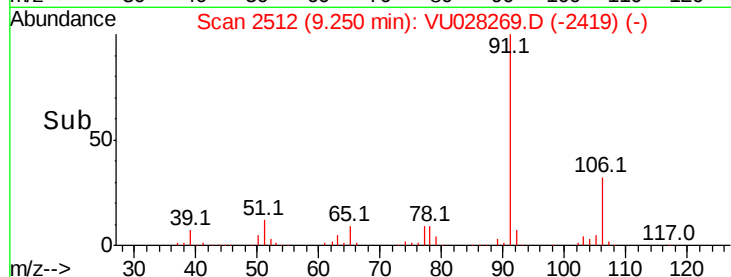
150000

100000

50000

0

Time-->



#53

m,p-xylene

Concen: 4.786 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028269.D

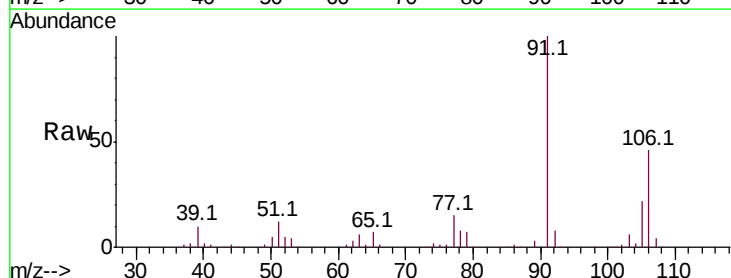
Acq: 20 Nov 2018 10:36

Tgt Ion: 106 Resp: 78283

Ion Ratio Lower Upper

106 100

91 217.4 150.6 279.6



Abundance Ion 106.15 (105.85 to 106.85): VU028242.D (-2537) (-)

Ion 91.15 (90.85 to 91.85): VU028242.D (-2537) (-)

9.38

120000

100000

80000

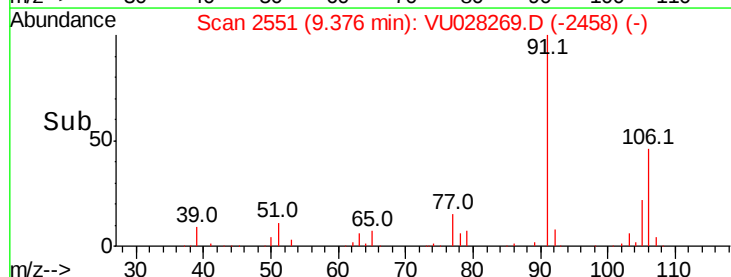
60000

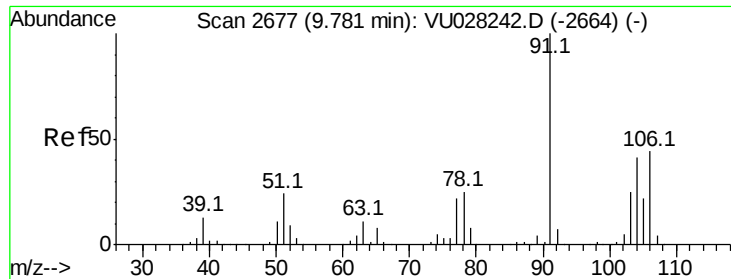
40000

20000

0

Time-->

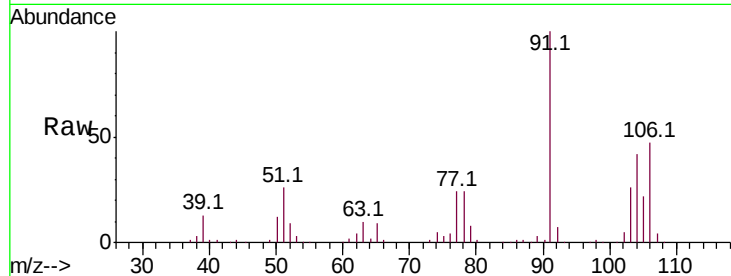




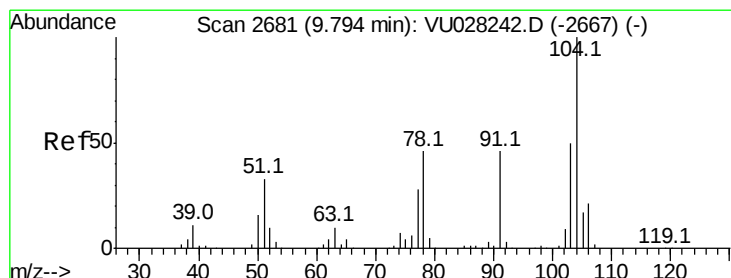
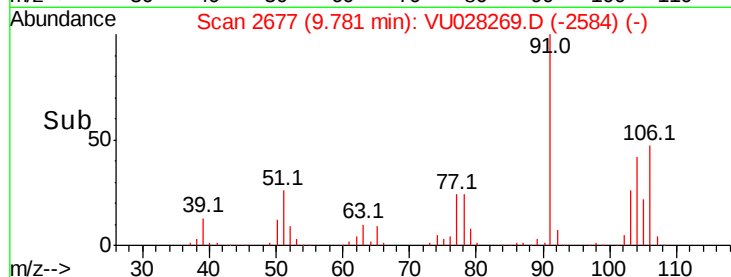
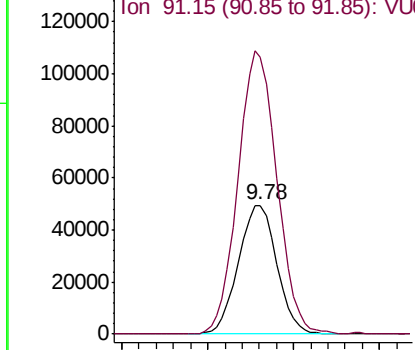
#54
o-xylene
Concen: 4.714 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028269.D
Acq: 20 Nov 2018 10:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 77021
Ion Ratio Lower Upper
106 100
91 214.8 157.5 292.5

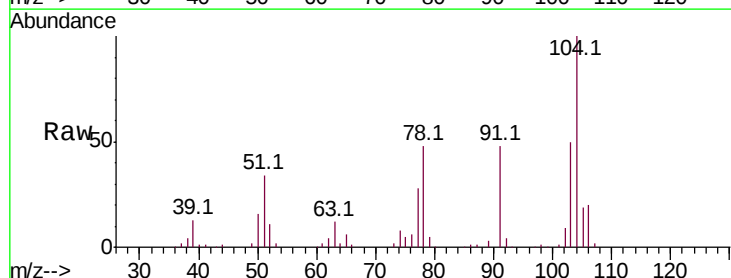


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

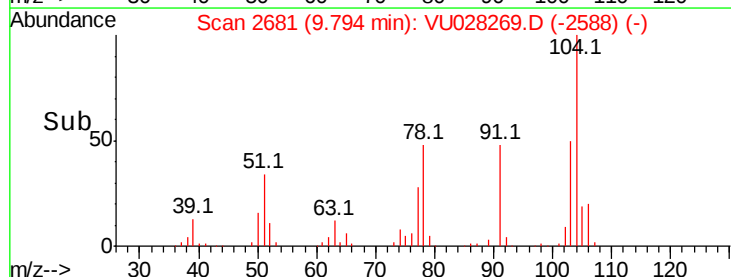
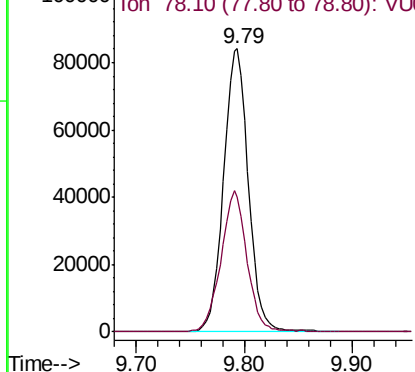


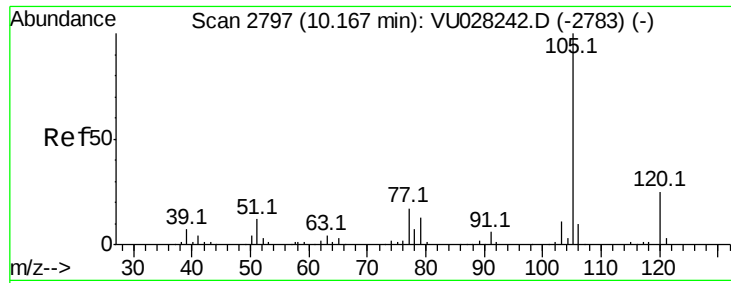
#55
Styrene
Concen: 4.904 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028269.D
Acq: 20 Nov 2018 10:36

Tgt Ion:104 Resp: 134491
Ion Ratio Lower Upper
104 100
78 47.8 33.4 62.0



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.666 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

ClientSampleId :

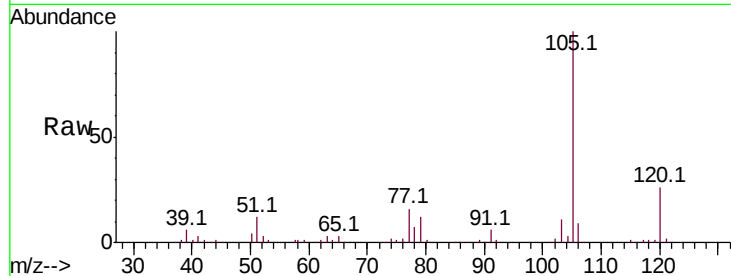
Tot Ion:105 Resp: 204193

Ion Ratio Lower Upper

105 100

120 25.1 20.3 30.5

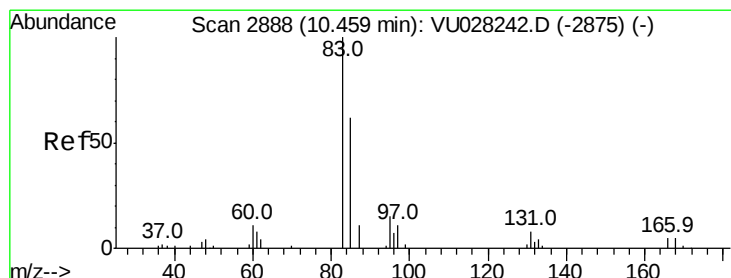
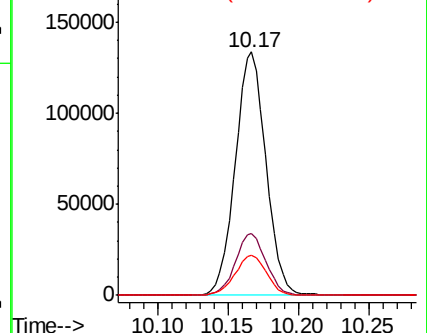
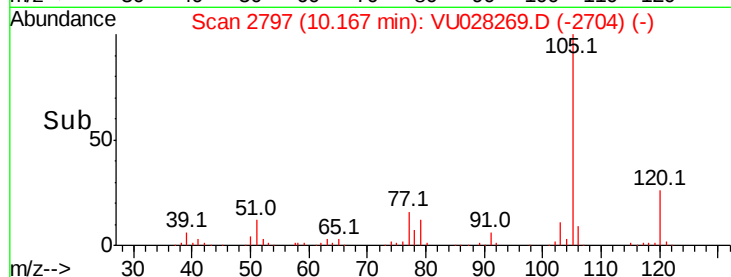
77 17.0 14.5 21.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.822 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

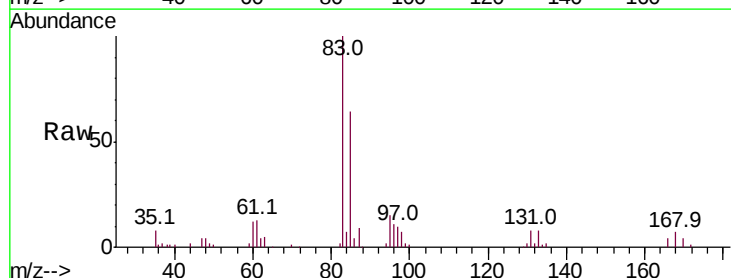
Tgt Ion: 83 Resp: 46189

Ion Ratio Lower Upper

83 100

85 63.5 46.1 85.5

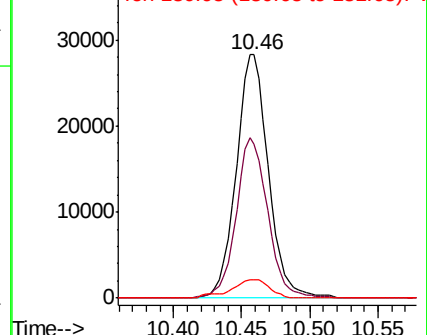
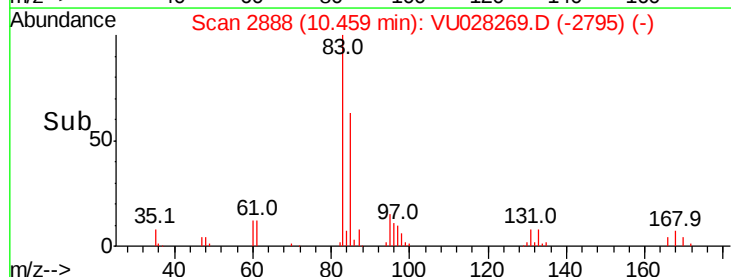
131 7.7 6.2 9.2

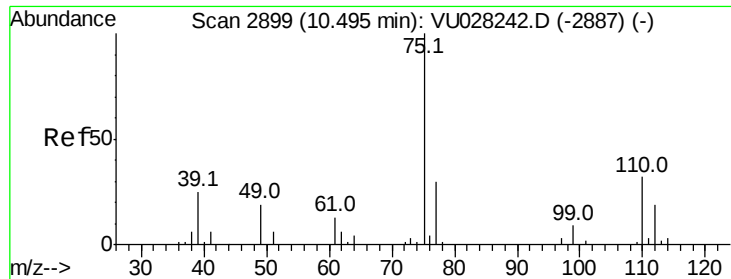


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

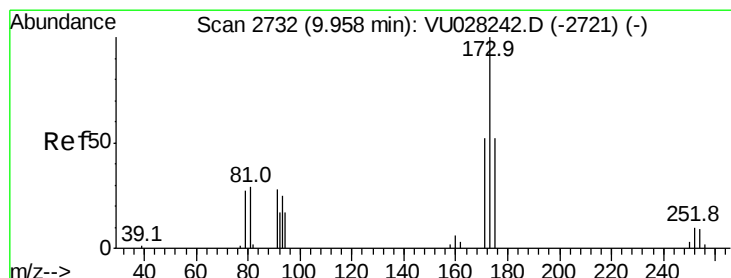
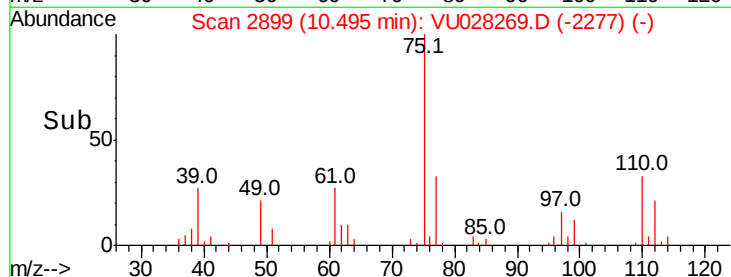
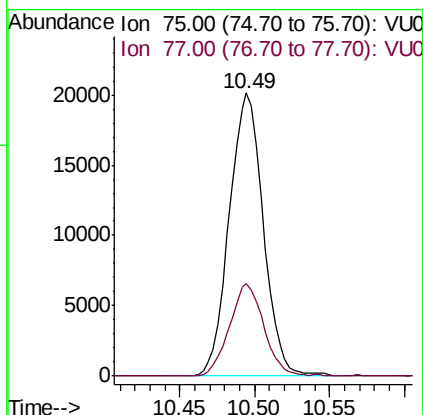
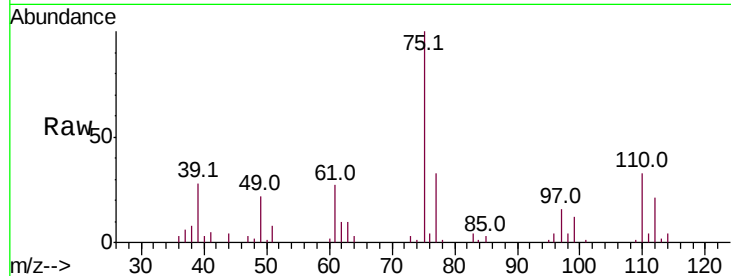




#59
 1,2,3-Trichloropropane
 Concen: 4.473 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

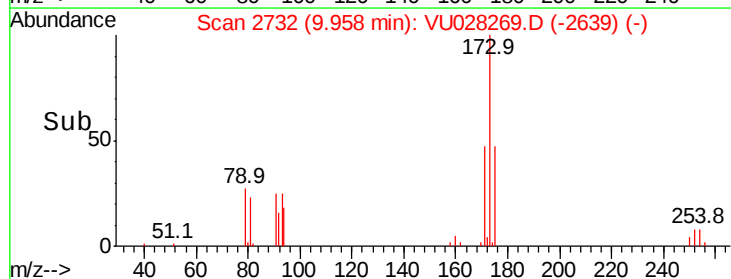
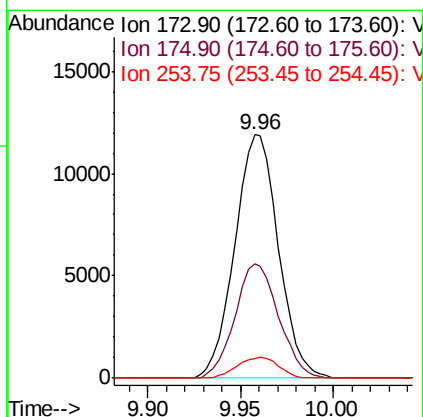
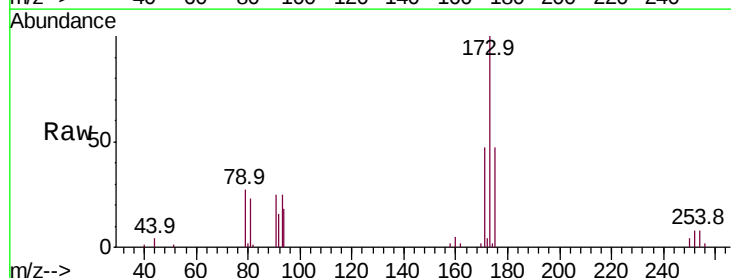
Instrument :
 MSVOA_U
 ClientSampleId :

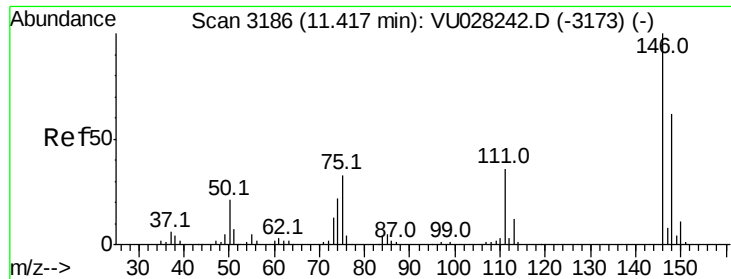
Tot Ion: 75 Resp: 31878
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.7 38.5



#61
 Bromoform
 Concen: 4.909 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Tgt Ion: 173 Resp: 19340
 Ion Ratio Lower Upper
 173 100
 175 46.9 38.7 58.1
 254 8.1 6.6 10.0





#62

1,3-Dichlorobenzene

Concen: 4.503 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

ClientSampleId :

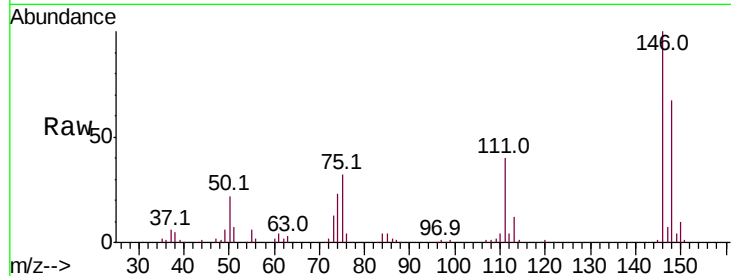
Tot Ion:146 Resp: 85149

Ion Ratio Lower Upper

146 100

111 39.9 30.4 56.4

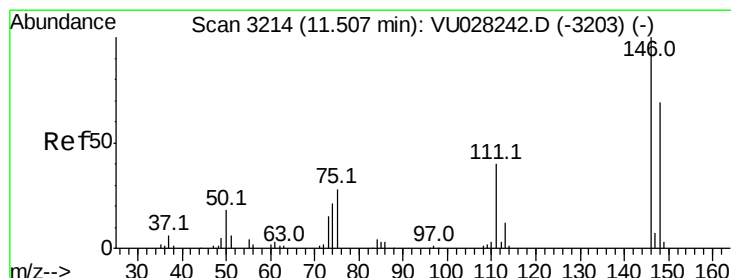
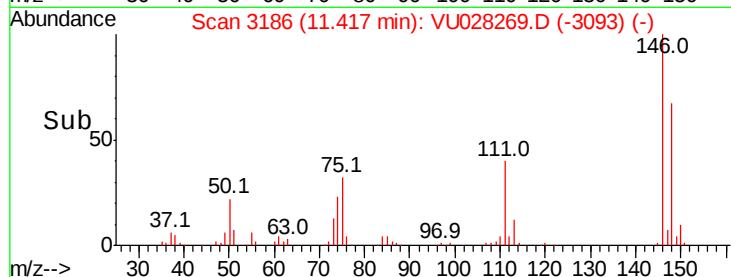
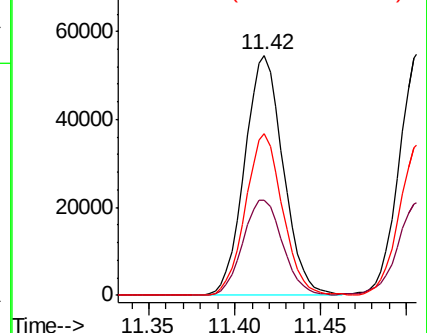
148 67.4 45.3 84.1



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.564 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

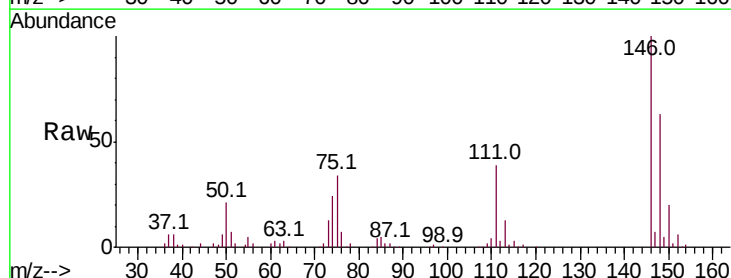
Tgt Ion:146 Resp: 88041

Ion Ratio Lower Upper

146 100

111 38.6 28.9 53.7

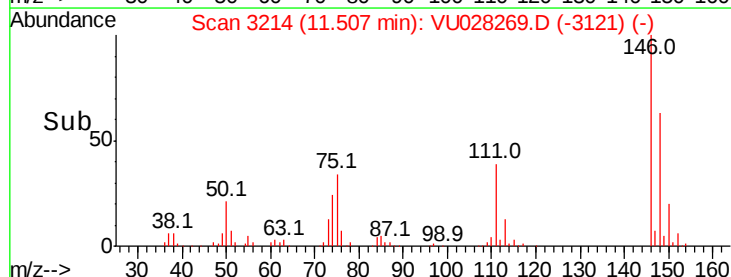
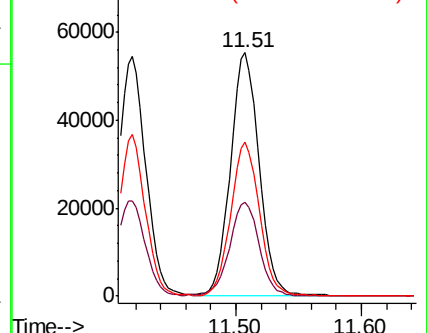
148 63.2 44.5 82.7

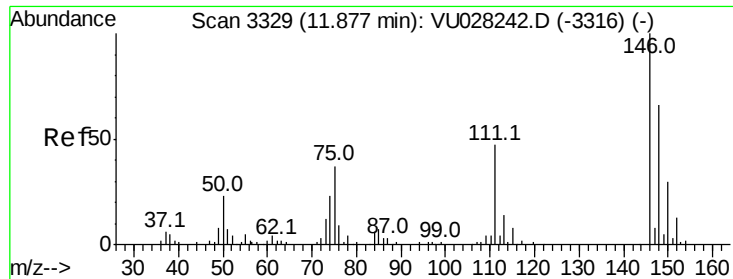


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.548 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

ClientSampleId :

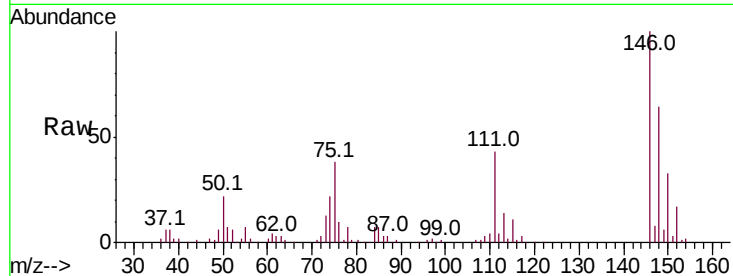
Tot Ion:146 Resp: 84330

Ion Ratio Lower Upper

146 100

111 42.5 34.7 52.1

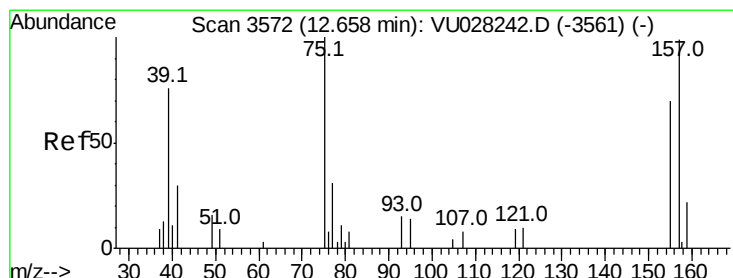
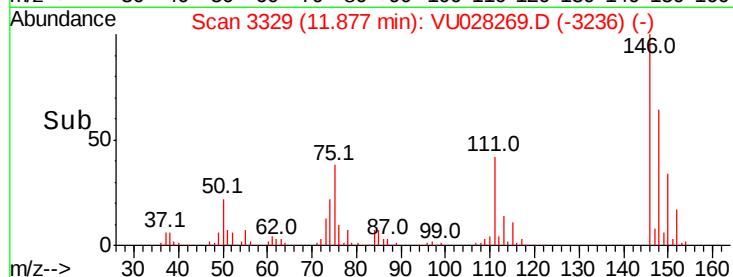
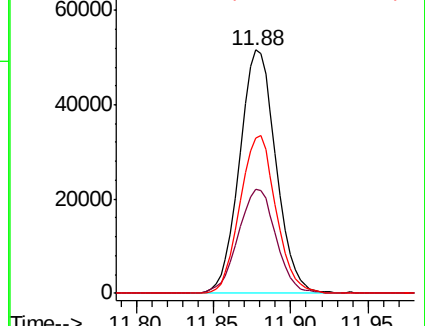
148 64.0 51.2 76.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.230 ug/L

RT: 12.66 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

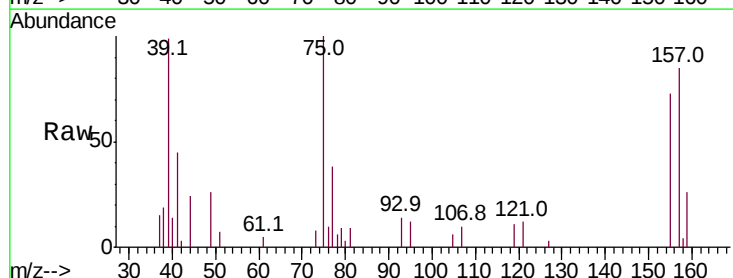
Tgt Ion: 75 Resp: 6110

Ion Ratio Lower Upper

75 100

155 73.5 46.1 69.1#

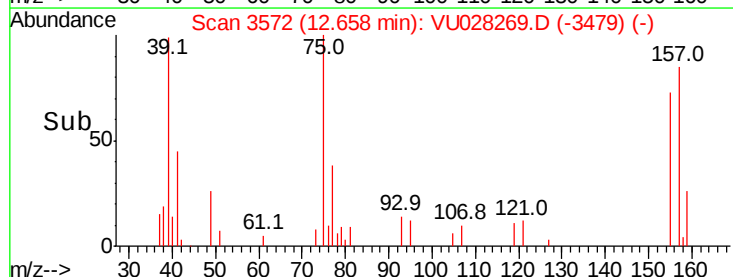
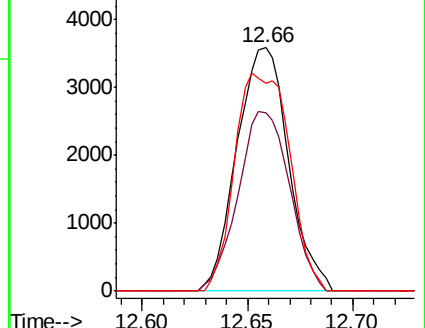
157 85.1 67.0 100.6

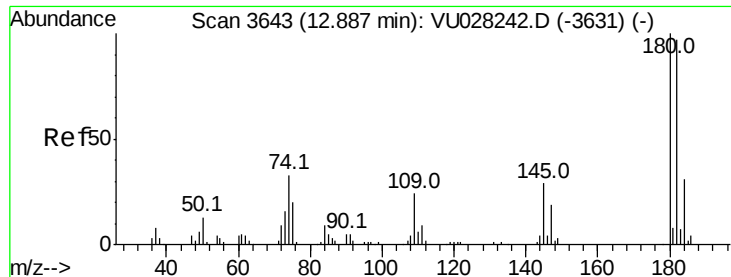


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

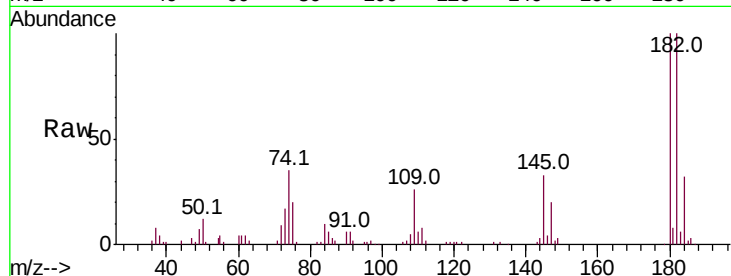




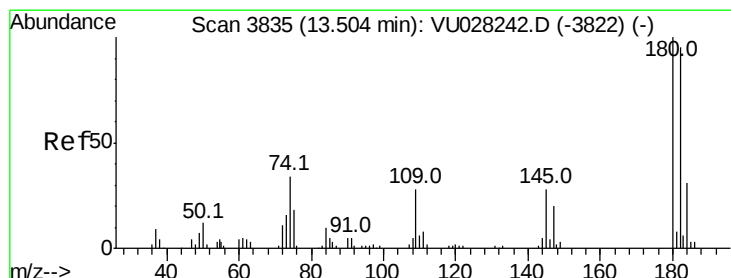
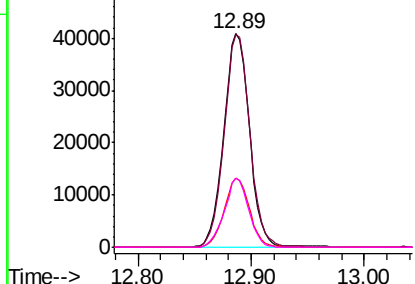
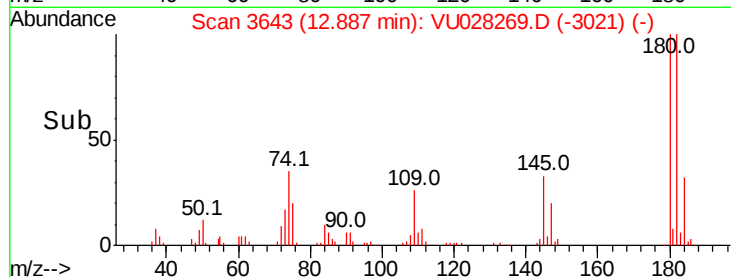
#67
 1,3,5-Trichlorobenzene
 Concen: 4.474 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 64715
 Ion Ratio Lower Upper
 180 100
 182 98.9 77.5 116.3
 184 31.7 23.7 35.5
 145 30.5 24.2 36.4

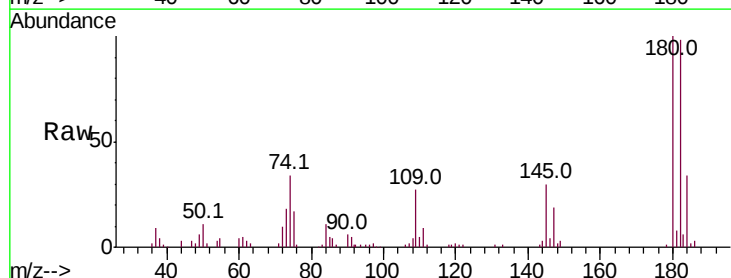


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

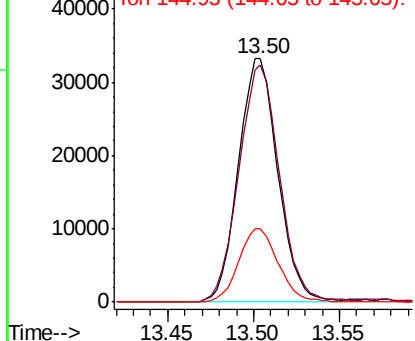
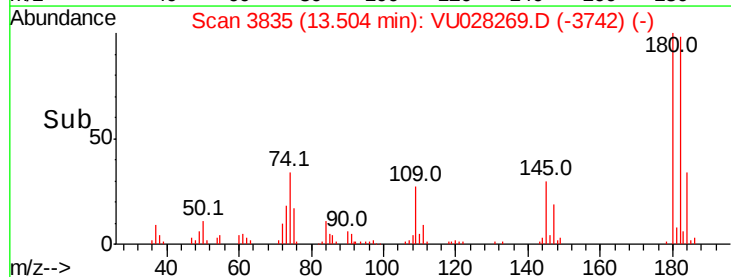


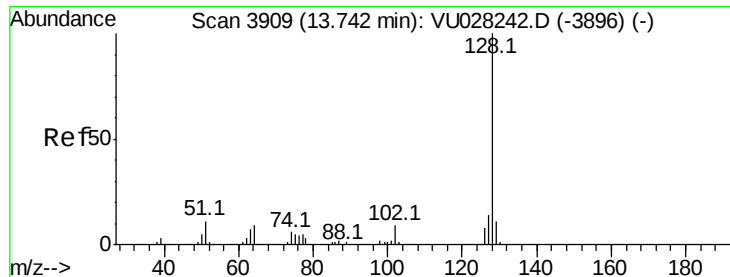
#68
 1,2,4-trichlorobenzene
 Concen: 4.400 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028269.D
 Acq: 20 Nov 2018 10:36

Tgt Ion:180 Resp: 53173
 Ion Ratio Lower Upper
 180 100
 182 100.1 75.4 113.2
 145 30.0 24.5 36.7



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.583 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

Instrument :

MSVOA_U

ClientSampleId :

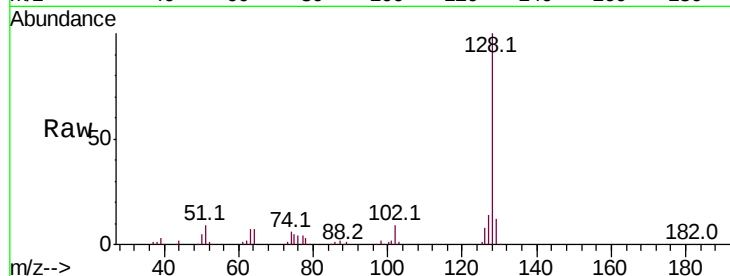
Tot Ion:128 Resp: 98429

Ion Ratio Lower Upper

128 100

129 10.5 8.6 12.8

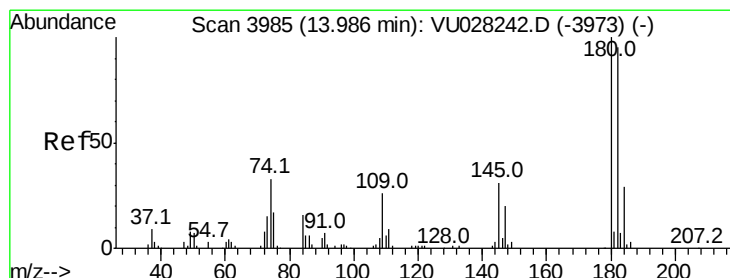
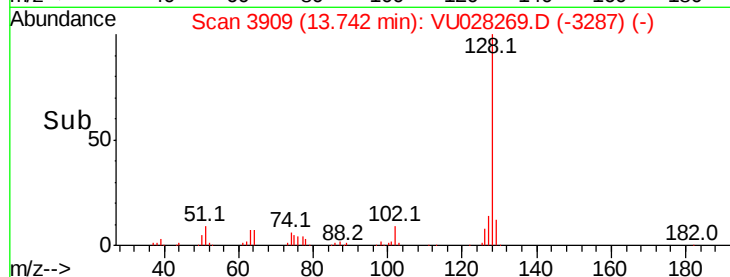
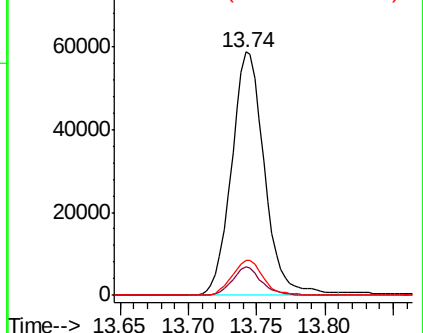
127 13.8 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.596 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028269.D

Acq: 20 Nov 2018 10:36

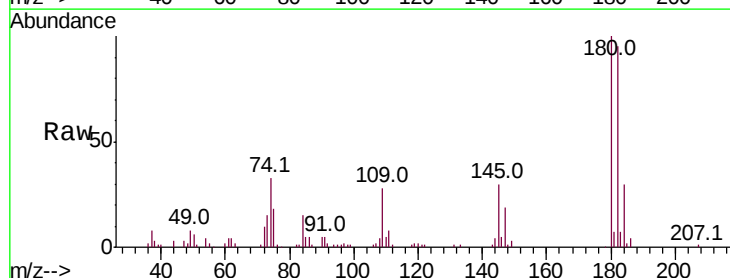
Tgt Ion:180 Resp: 52618

Ion Ratio Lower Upper

180 100

182 96.1 77.0 115.4

145 31.1 25.7 38.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

