

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028137.D
 Acq On : 14 Nov 2018 22:09
 Operator : MD/SY
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 04:31:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 04:25:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	136428	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	130140	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	62952	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	54552	4.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.40%
7) Chloroethane-d5	1.68	69	43292	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.20%
11) 1,1-Dichloroethene-d2	2.28	63	102950	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.40%
20) 2-Butanone-d5	4.19	46	173801	52.93	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.86%
24) Chloroform-d	4.65	84	90609	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.60%
26) 1,2-Dichloroethane-d4	5.31	65	50409	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
32) Benzene-d6	5.34	84	186242	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.33	67	67306	5.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.80%
41) Toluene-d8	7.57	98	169587	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	7.85	79	21294	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.31	63	136386	50.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.18%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	48155	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	57044	4.85	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	59922	4.979	ug/L 99
3) Chloromethane	1.33	50	75141	4.885	ug/L 100
5) Vinyl chloride	1.40	62	70603	4.832	ug/L 99
6) Bromomethane	1.63	94	33536	4.791	ug/L 96
8) Chloroethane	1.70	64	41077	4.669	ug/L 97
9) Trichlorofluoromethane	1.89	101	81488	5.112	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	43160	4.823	ug/L 96
12) 1,1-Dichloroethene	2.29	96	42308	4.664	ug/L 95
13) Acetone	2.32	43	100662	45.519	ug/L 96
14) Carbon disulfide	2.48	76	140782	4.628	ug/L 99
15) Methyl Acetate	2.62	43	28049	4.743	ug/L 100
16) Methylene chloride	2.70	84	49608	4.629	ug/L 92
17) Methyl tert-butyl Ether	3.01	73	120120	4.736	ug/L 99
18) trans-1,2-Dichloroethene	2.98	96	45644	4.733	ug/L 96
19) 1,1-Dichloroethane	3.45	63	100791	4.969	ug/L 97
21) 2-Butanone	4.28	43	178239	51.072	ug/L 98
22) cis-1,2-Dichloroethene	4.23	96	52887	4.974	ug/L 96

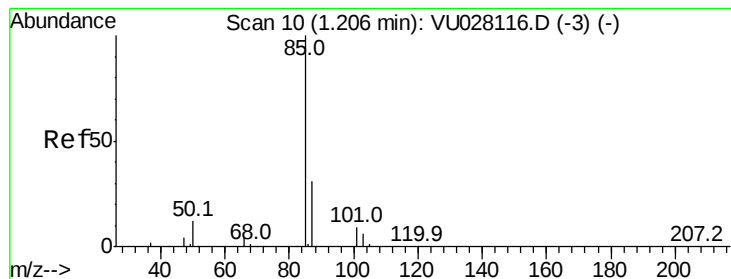
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028137.D
 Acq On : 14 Nov 2018 22:09
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 04:25:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	20569	4.895	ug/L	95
25) Chloroform	4.67	83	92760	5.099	ug/L	97
27) 1,2-Dichloroethane	5.41	62	62209	5.202	ug/L	98
29) 1,1,1-Trichloroethane	4.92	97	73632	4.999	ug/L	99
30) Cyclohexane	4.99	56	100855	4.883	ug/L	99
31) Carbon tetrachloride	5.13	117	61984	5.071	ug/L	99
33) Benzene	5.39	78	217845	4.969	ug/L	100
34) Trichloroethene	6.19	95	52826	4.875	ug/L	98
35) Methylcyclohexane	6.41	83	89751	4.818	ug/L	97
37) 1,2-Dichloropropane	6.44	63	60364	4.979	ug/L	100
38) Bromodichloromethane	6.76	83	62653	4.857	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	79058	4.823	ug/L	96
40) 4-Methyl-2-pentanone	7.47	43	436467	52.277	ug/L	98
42) Toluene	7.64	91	224977	4.977	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	58335	4.542	ug/L	96
45) 1,1,2-Trichloroethane	8.07	97	36580	4.997	ug/L	99
47) Tetrachloroethene	8.23	164	38391	4.358	ug/L	97
48) 2-Hexanone	8.37	43	315201	53.057	ug/L	98
49) Dibromochloromethane	8.48	129	37759	4.846	ug/L	96
50) 1,2-Dibromoethane	8.59	107	34363	4.986	ug/L	99
51) Chlorobenzene	9.12	112	128426	4.859	ug/L	95
52) Ethylbenzene	9.25	91	246025	4.986	ug/L	99
53) m,p-xylene	9.38	106	86622	4.819	ug/L	95
54) o-xylene	9.78	106	85280	4.927	ug/L	98
55) Styrene	9.79	104	146667	5.011	ug/L	98
56) Isopropylbenzene	10.17	105	228935	4.890	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	48807	5.173	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	34135	5.013	ug/L	97
61) Bromoform	9.96	173	19654	4.617	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	96545	4.850	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	98504	4.889	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	92459	4.857	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	6886	4.986	ug/L #	82
67) 1,3,5-Trichlorobenzene	12.89	180	73463	4.811	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	62937	4.729	ug/L	97
69) Naphthalene	13.74	128	116152	4.683	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	60301	4.918	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 4.979 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

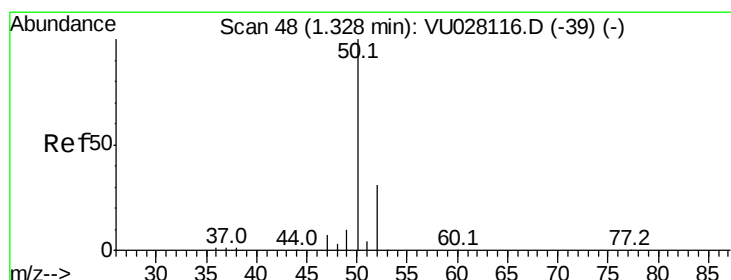
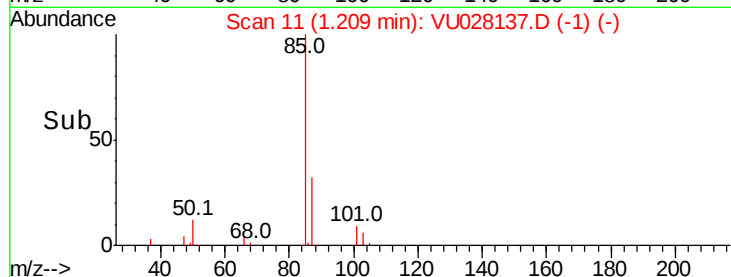
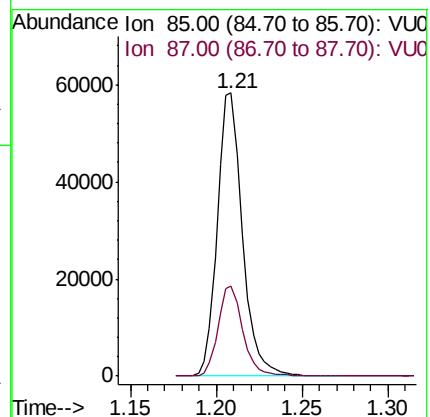
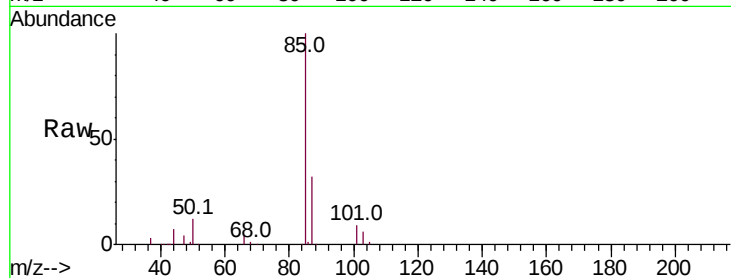
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 59922

Ion Ratio Lower Upper

85 100

87 31.3 25.6 38.4



#3

Chloromethane

Concen: 4.885 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028137.D

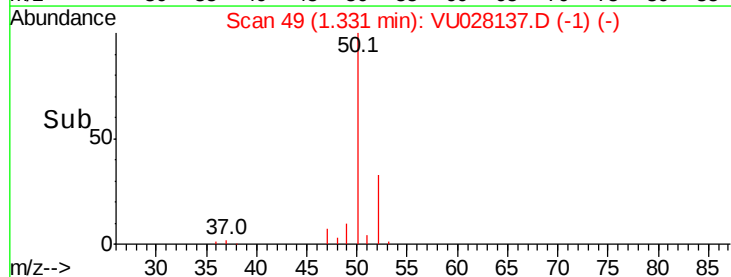
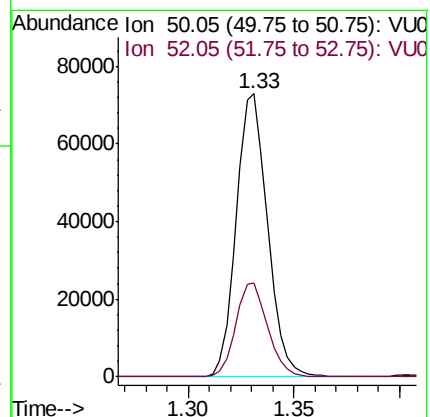
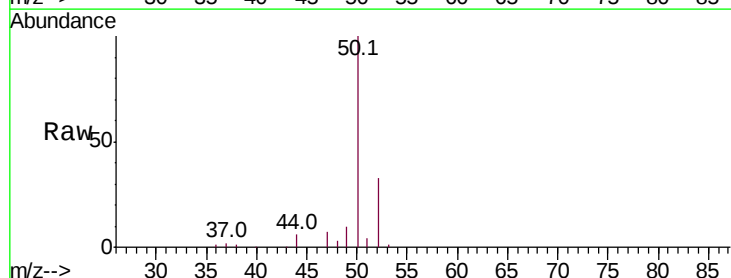
Acq: 14 Nov 2018 22:09

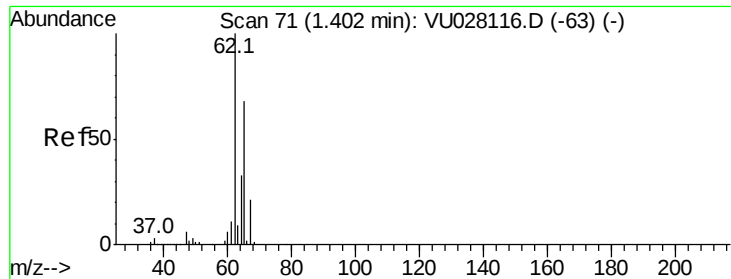
Tgt Ion: 50 Resp: 75141

Ion Ratio Lower Upper

50 100

52 33.0 23.0 42.6





#5

Vinyl chloride

Concen: 4.832 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :

MSVOA_U

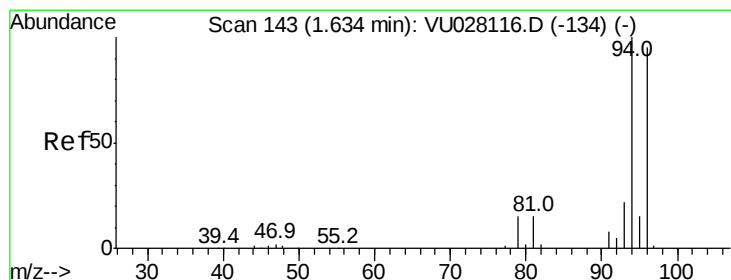
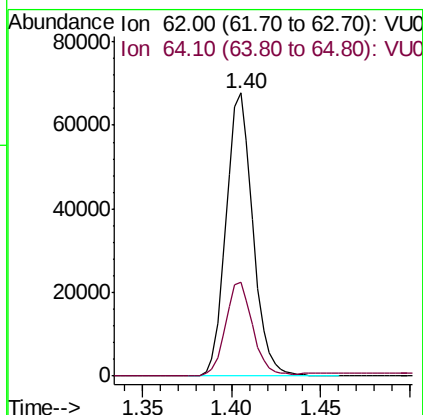
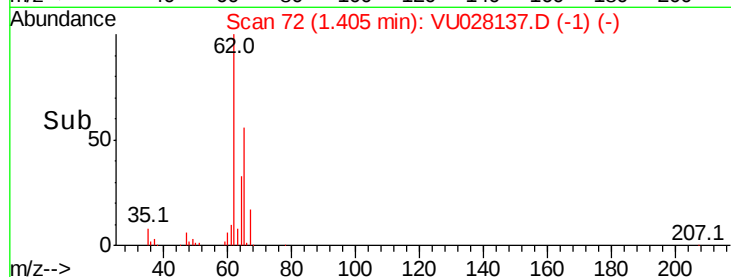
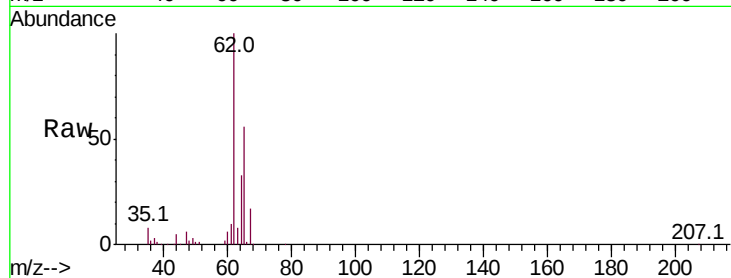
ClientSampleId :

Tot Ion: 62 Resp: 70603

Ion Ratio Lower Upper

62 100

64 33.1 22.7 42.3



#6

Bromomethane

Concen: 4.791 ug/L

RT: 1.63 min Scan# 142

Delta R.T. -0.00 min

Lab File: VU028137.D

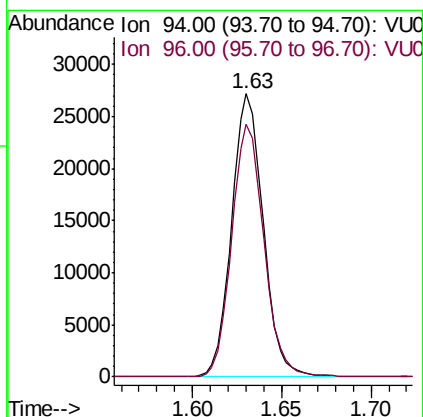
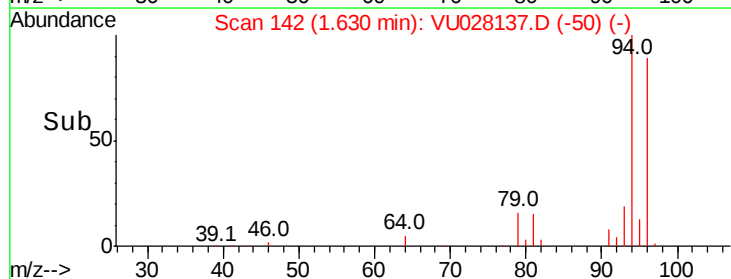
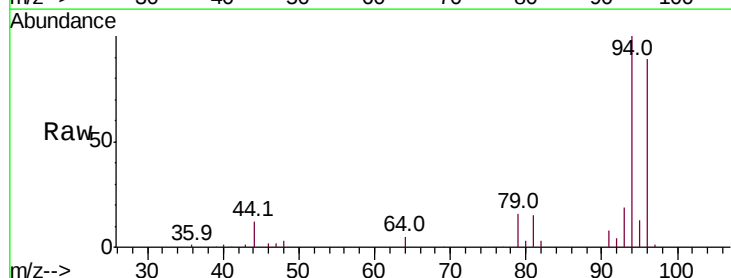
Acq: 14 Nov 2018 22:09

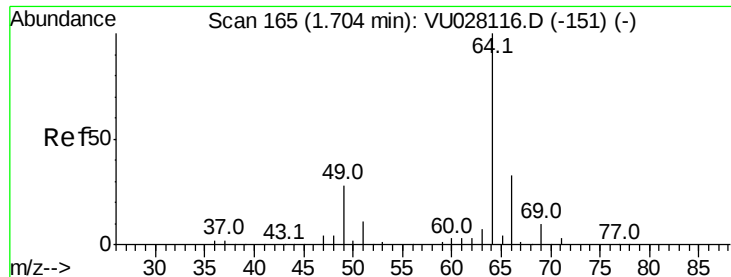
Tgt Ion: 94 Resp: 33536

Ion Ratio Lower Upper

94 100

96 89.1 65.1 120.9





#8

Chloroethane

Concen: 4.669 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

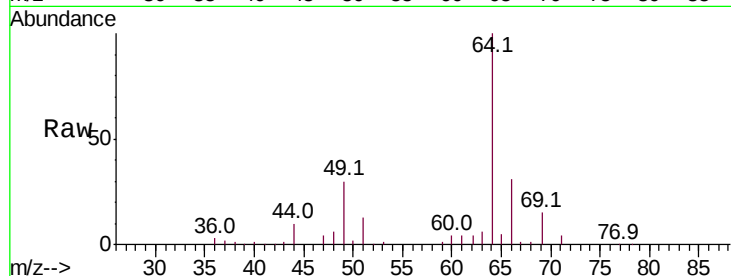
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 41077

Ion Ratio Lower Upper

64 100

66 31.2 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU028116.D (-151) (-)

Ion 66.05 (65.75 to 66.75): VU028116.D (-151) (-)

1.70

30000

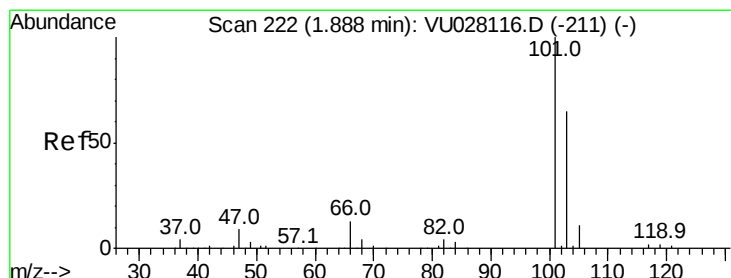
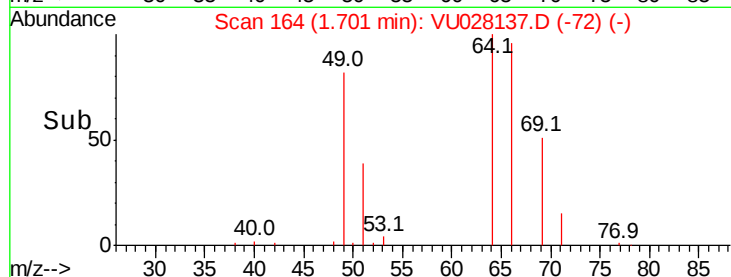
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 5.112 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU028137.D

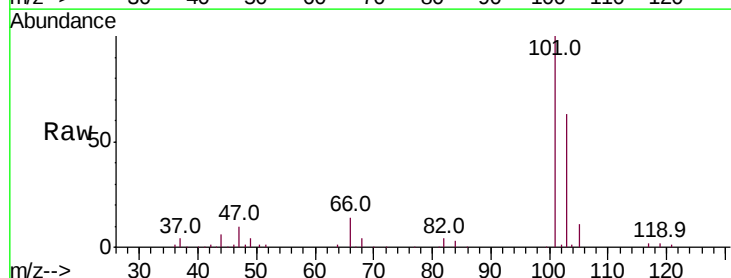
Acq: 14 Nov 2018 22:09

Tgt Ion:101 Resp: 81488

Ion Ratio Lower Upper

101 100

103 63.4 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU028116.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028116.D (-211) (-)

1.89

60000

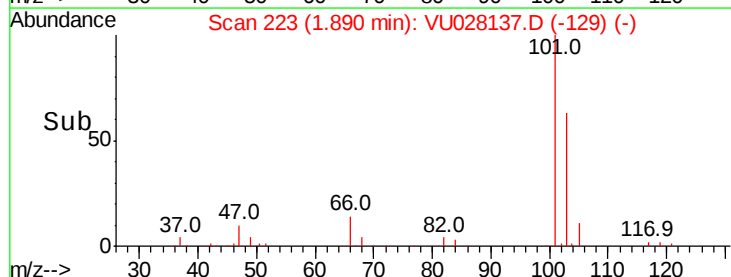
40000

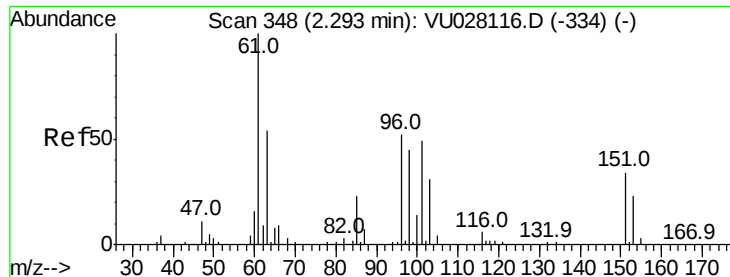
20000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 4.823 ug/L

RT: 2.29 min Scan# 348

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :

MSVOA_U

ClientSampleId :

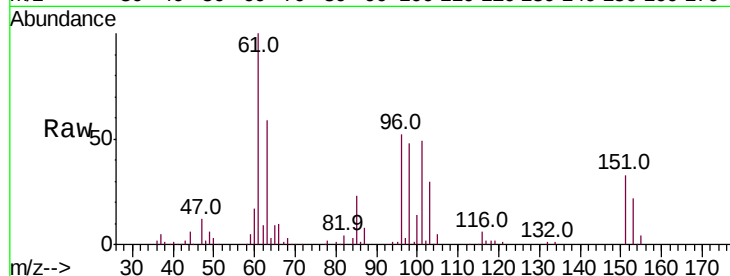
Tot Ion:101 Resp: 43160

Ion Ratio Lower Upper

101 100

85 47.1 37.6 56.4

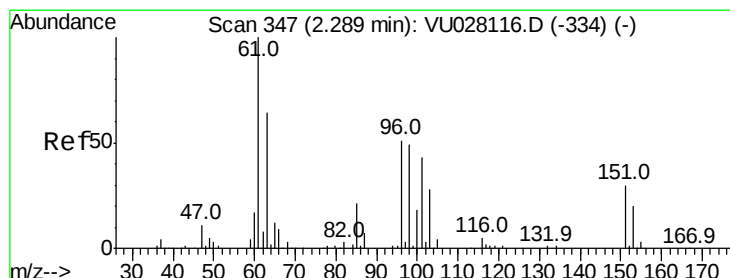
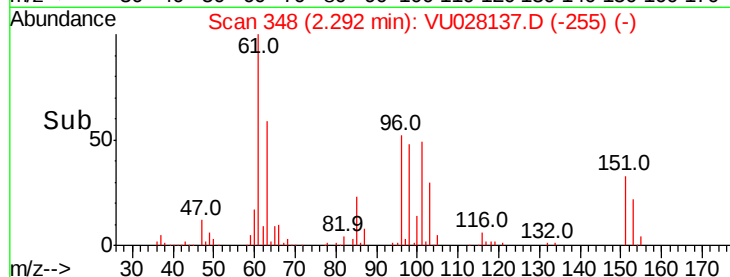
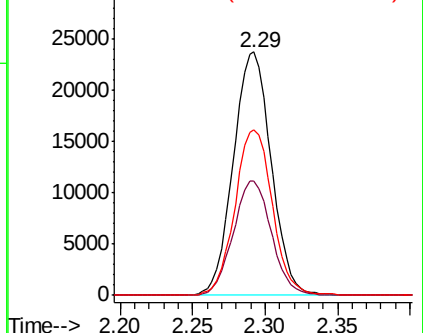
151 67.3 58.2 87.2



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: 4.664 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

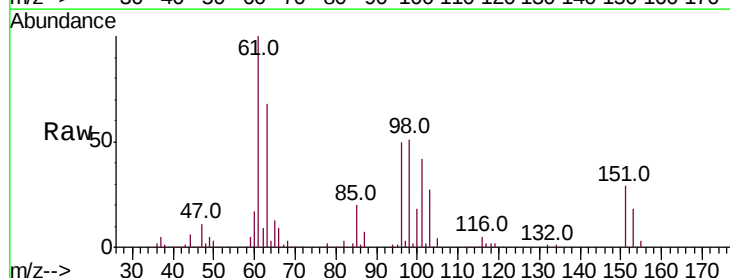
Tgt Ion: 96 Resp: 42308

Ion Ratio Lower Upper

96 100

61 200.1 134.8 250.3

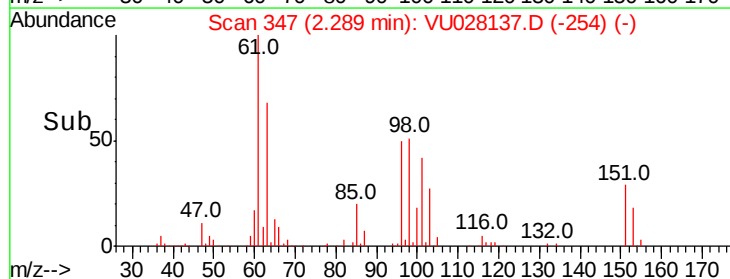
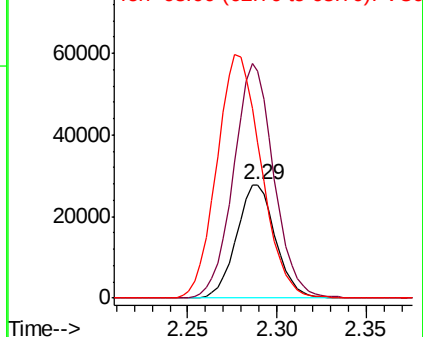
63 136.9 100.1 185.9

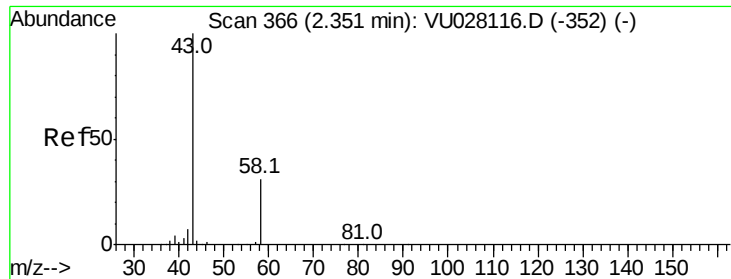


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 45.519 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.03 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

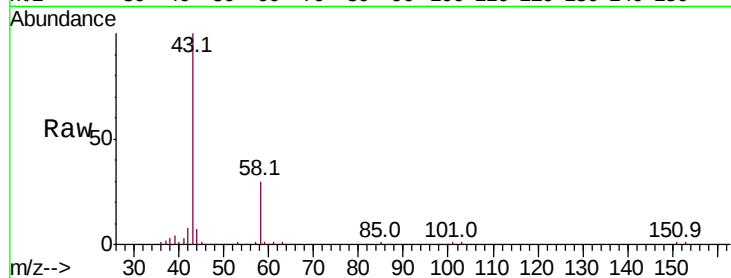
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 100662

Ion Ratio Lower Upper

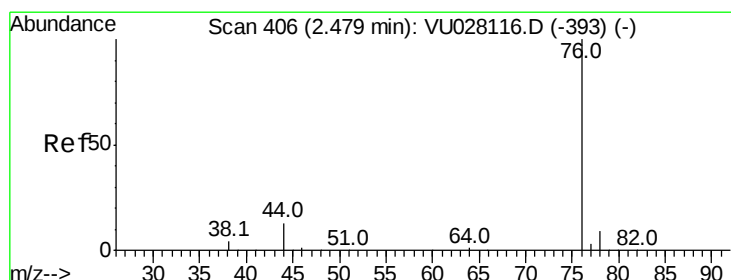
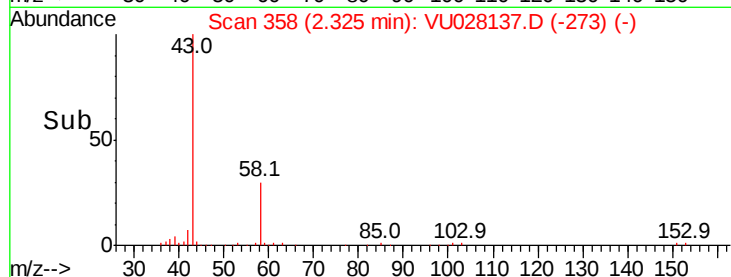
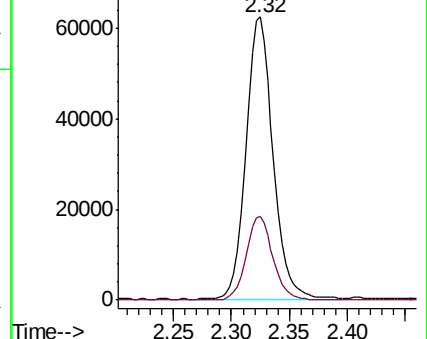
43 100

58 28.7 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.628 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028137.D

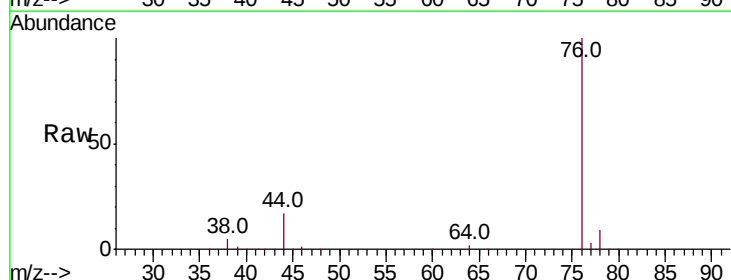
Acq: 14 Nov 2018 22:09

Tgt Ion: 76 Resp: 140782

Ion Ratio Lower Upper

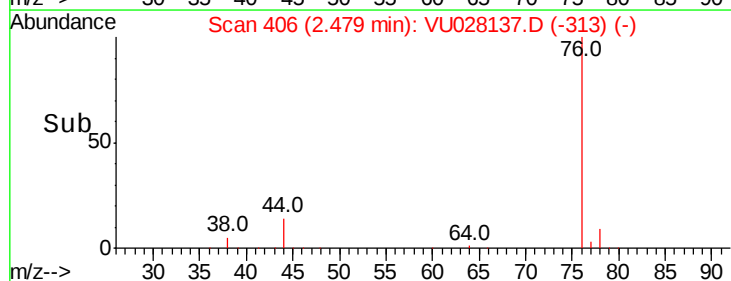
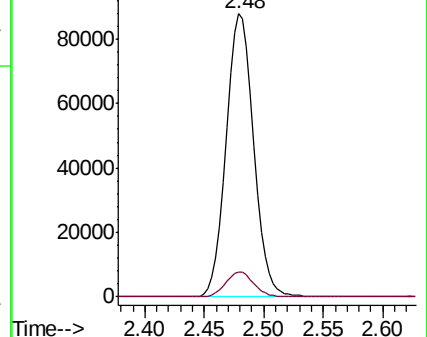
76 100

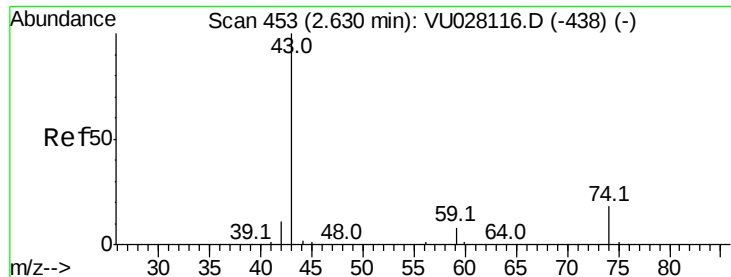
78 8.9 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 4.743 ug/L

RT: 2.62 min Scan# 450

Delta R.T. -0.01 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :

MSVOA_U

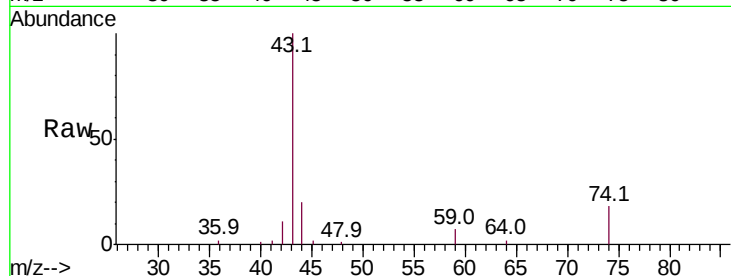
ClientSampleId :

Tot Ion: 43 Resp: 28049

Ion Ratio Lower Upper

43 100

74 18.7 14.9 22.3



Abundance Ion 43.05 (42.75 to 43.75): VU028116.D (-438) (-)

Ion 74.05 (73.75 to 74.75): VU028116.D (-438) (-)

2.62

15000

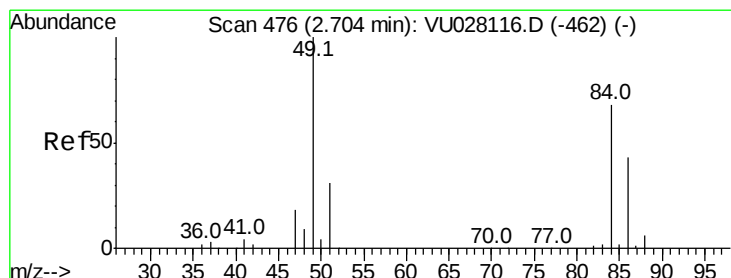
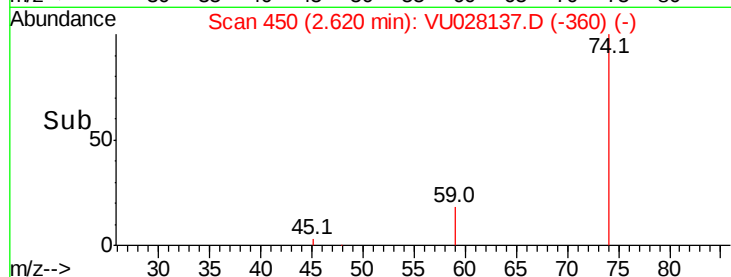
10000

5000

0

2.55 2.60 2.65 2.70

Time-->



#16

Methylene chloride

Concen: 4.629 ug/L

RT: 2.70 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

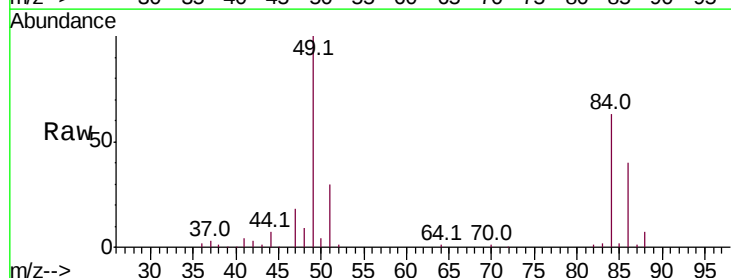
Tgt Ion: 84 Resp: 49608

Ion Ratio Lower Upper

84 100

86 64.1 44.6 82.8

49 159.8 102.5 190.3



Abundance Ion 84.05 (83.75 to 84.75): VU028116.D (-462) (-)

Ion 86.00 (85.70 to 86.70): VU028116.D (-462) (-)

Ion 49.10 (48.80 to 49.80): VU028116.D (-462) (-)

60000

50000

40000

30000

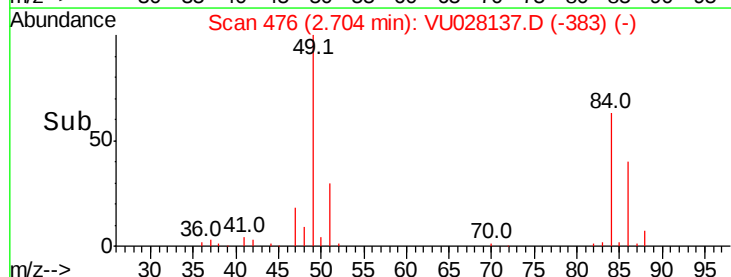
20000

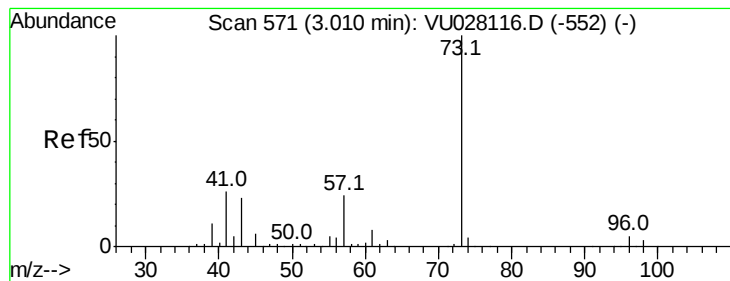
10000

0

2.60 2.65 2.70 2.75 2.80

Time-->



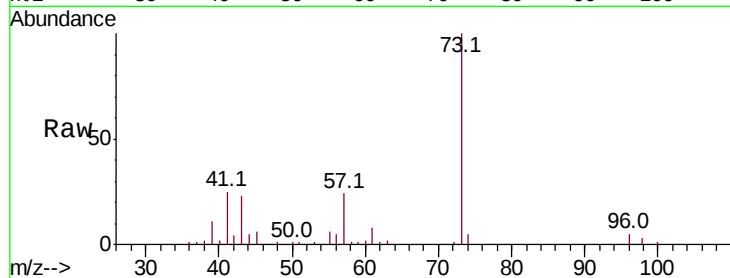


#17

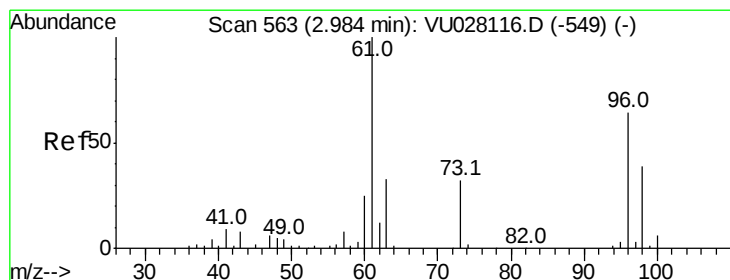
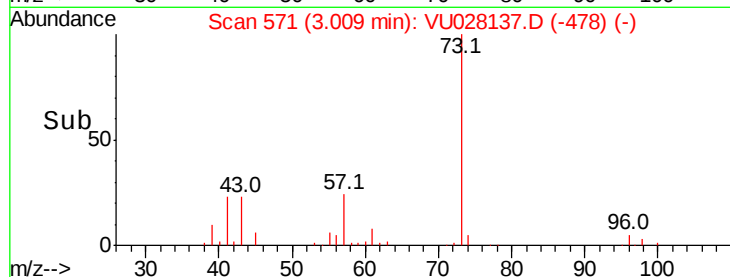
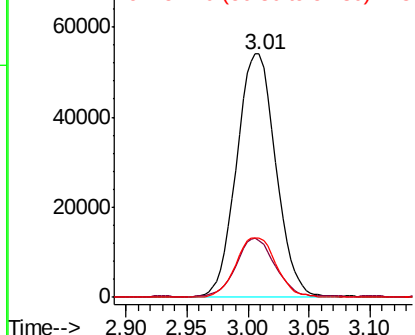
Methvl tert-butvl Ether
 Concen: 4.736 ug/L
 RT: 3.01 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 120120
 Ion Ratio Lower Upper
 73 100
 43 23.6 18.1 27.1
 57 25.3 20.0 30.0



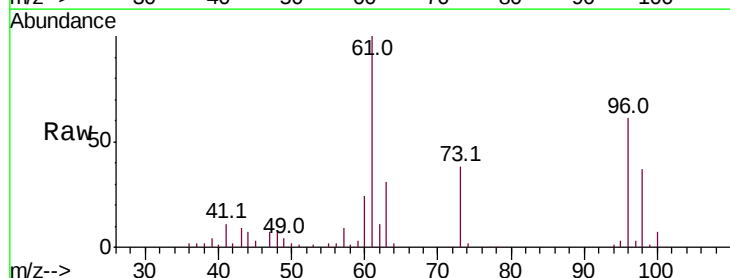
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



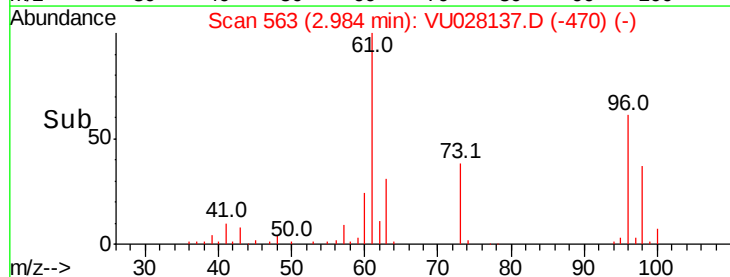
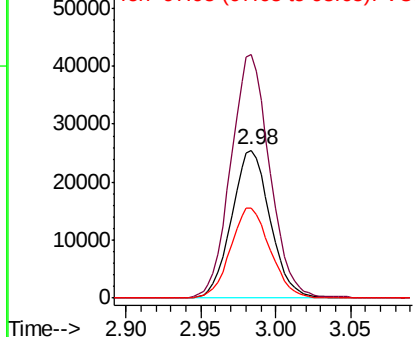
#18

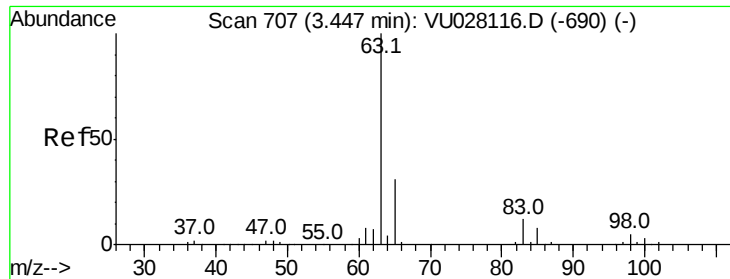
trans-1,2-Dichloroethene
 Concen: 4.733 ug/L
 RT: 2.98 min Scan# 563
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Tgt Ion: 96 Resp: 45644
 Ion Ratio Lower Upper
 96 100
 61 164.5 118.5 220.1
 98 60.9 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

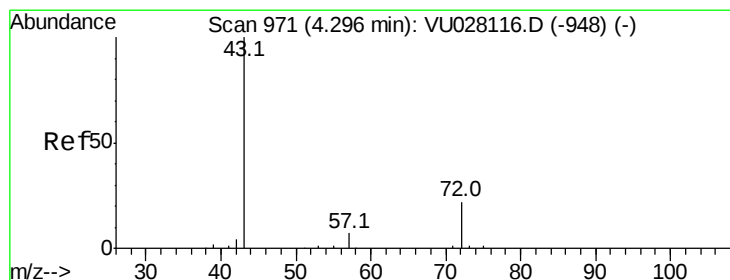
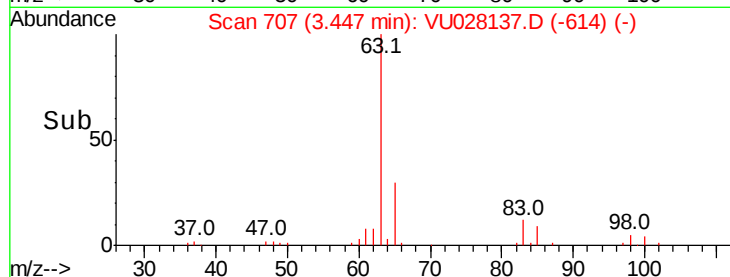
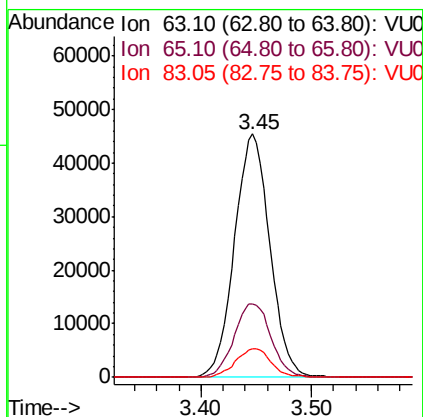
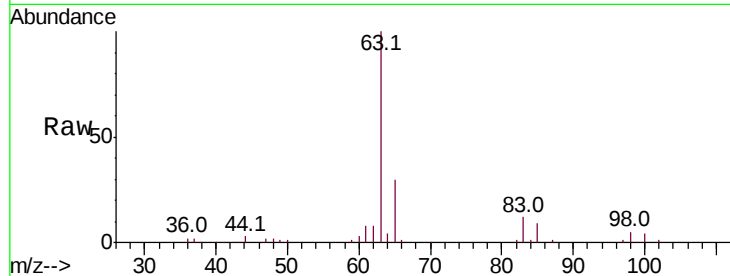




#19
 1,1-Dichloroethane
 Concen: 4.969 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

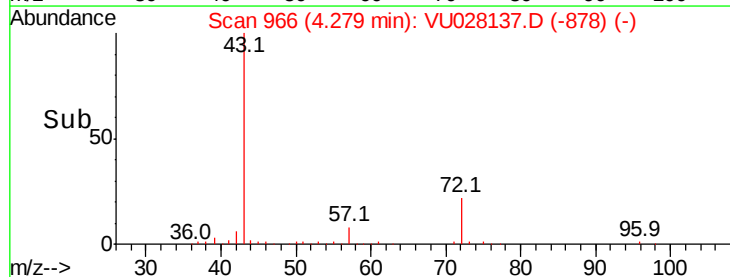
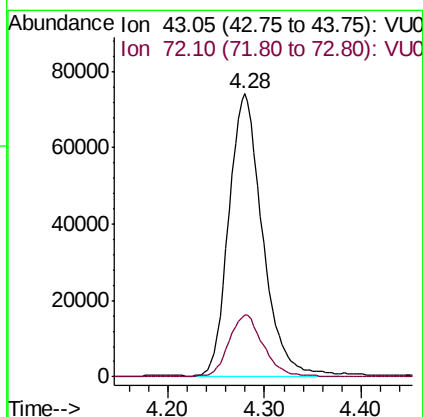
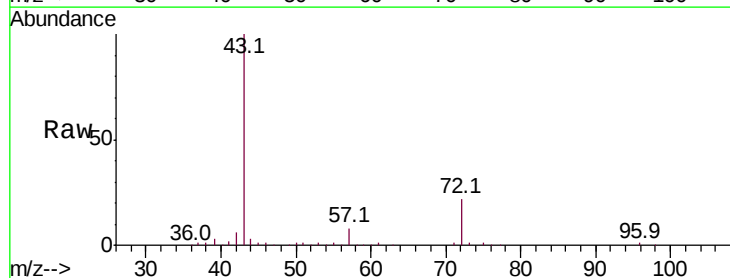
Instrument :
 MSVOA_U
 ClientSampled :

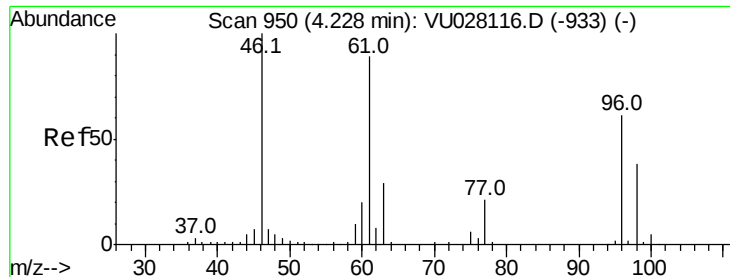
Tot Ion: 63 Resp: 100791
 Ion Ratio Lower Upper
 63 100
 65 30.2 22.2 41.2
 83 11.6 8.9 16.5



#21
 2-Butanone
 Concen: 51.072 ug/L
 RT: 4.28 min Scan# 966
 Delta R.T. -0.02 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Tgt Ion: 43 Resp: 178239
 Ion Ratio Lower Upper
 43 100
 72 22.8 11.0 33.0



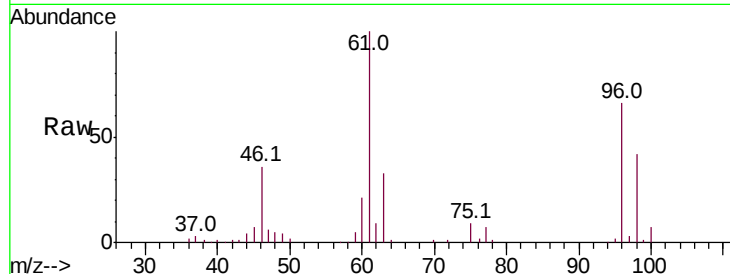


#22

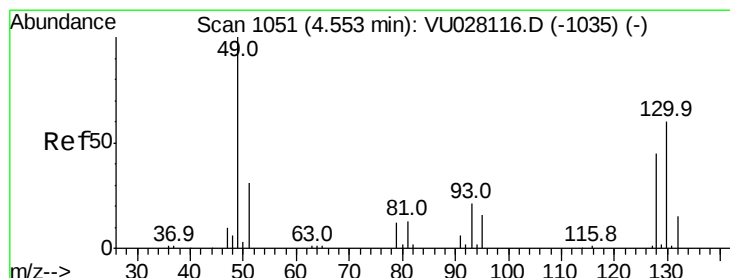
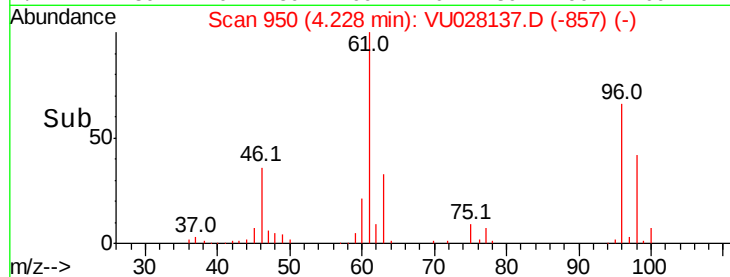
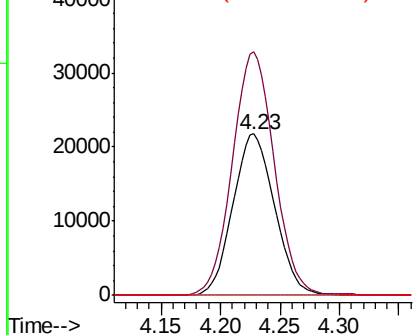
cis-1,2-Dichloroethene
Concen: 4.974 ug/L
RT: 4.23 min Scan# 950
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 52887
Ion Ratio Lower Upper
96 100
61 150.6 101.8 189.0
68 0.0 0.0 0.0



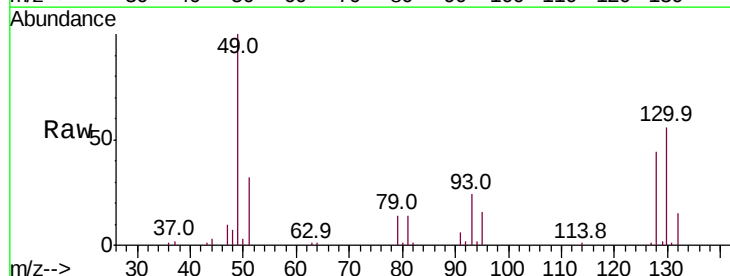
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



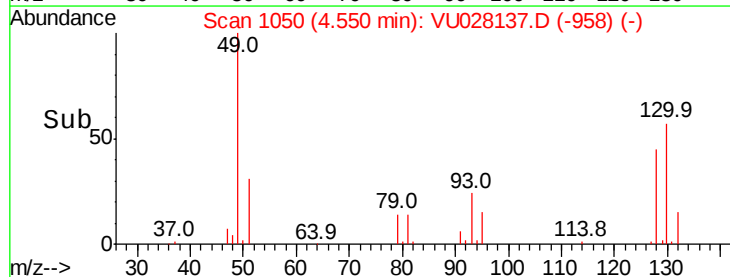
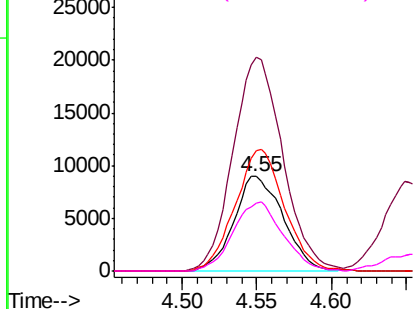
#23

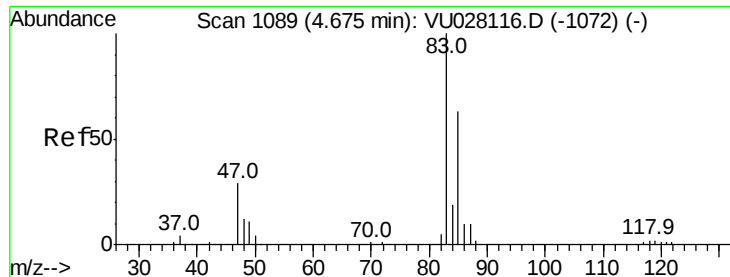
Bromochloromethane
Concen: 4.895 ug/L
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Tgt Ion: 128 Resp: 20569
Ion Ratio Lower Upper
128 100
49 225.9 152.2 282.6
130 127.2 93.2 173.0
51 71.2 53.5 80.3



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

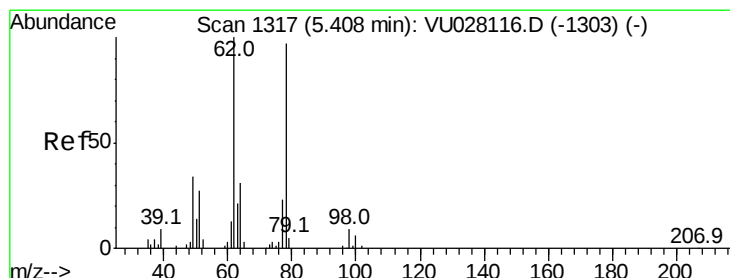
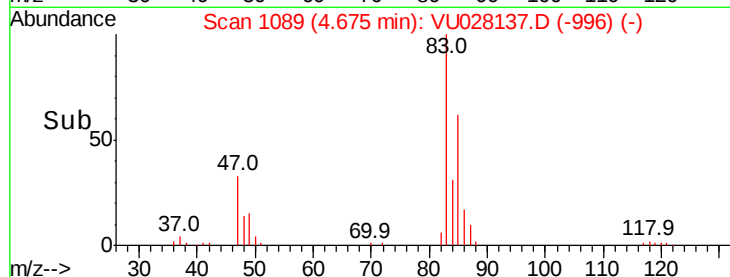
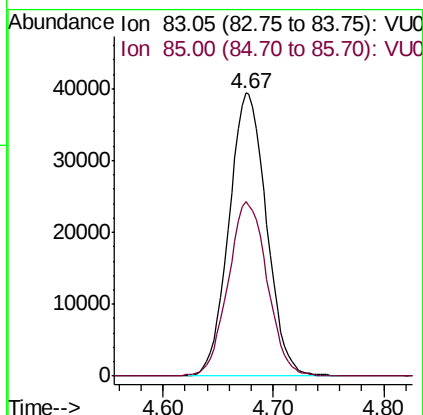
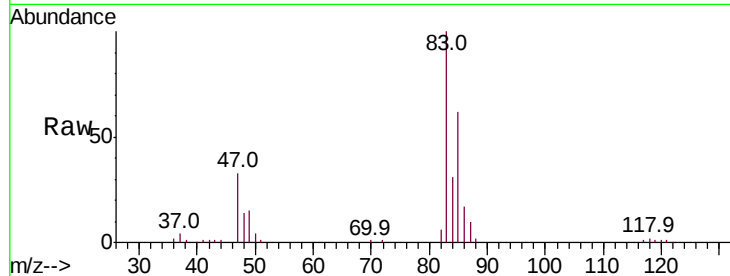




#25
Chloroform
Concen: 5.099 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

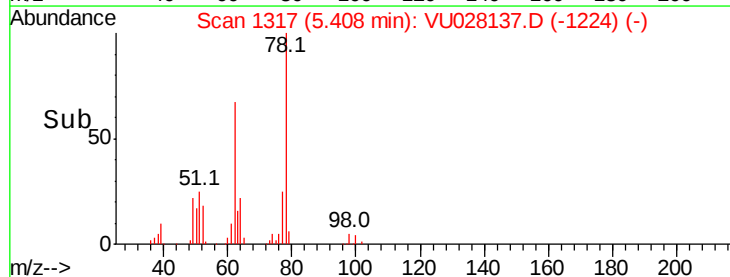
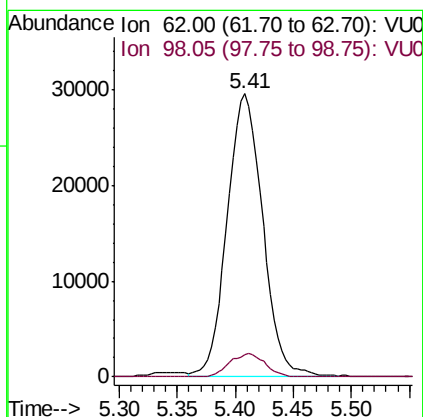
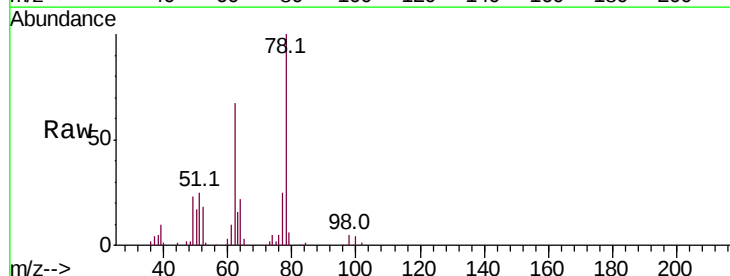
Instrument :
MSVOA_U
ClientSampleId :

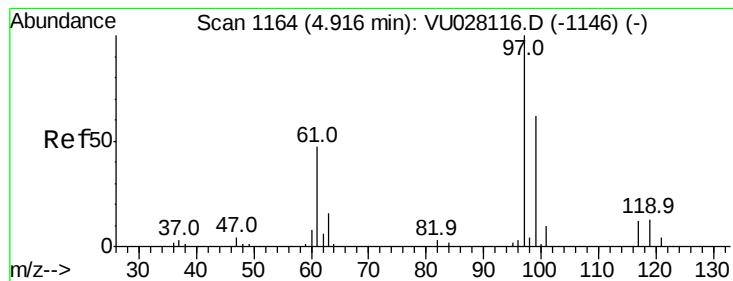
Tot Ion: 83 Resp: 92760
Ion Ratio Lower Upper
83 100
85 61.6 45.0 83.6



#27
1,2-Dichloroethane
Concen: 5.202 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Tgt Ion: 62 Resp: 62209
Ion Ratio Lower Upper
62 100
98 8.0 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 4.999 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :
MSVOA_U
ClientSampled :

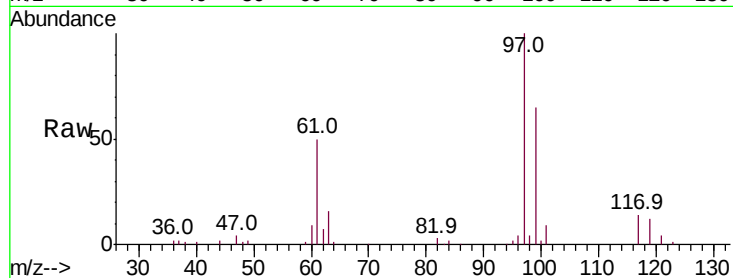
Tot Ion: 97 Resp: 73632

Ion Ratio Lower Upper

97 100

99 64.5 51.2 76.8

61 50.3 39.4 59.2

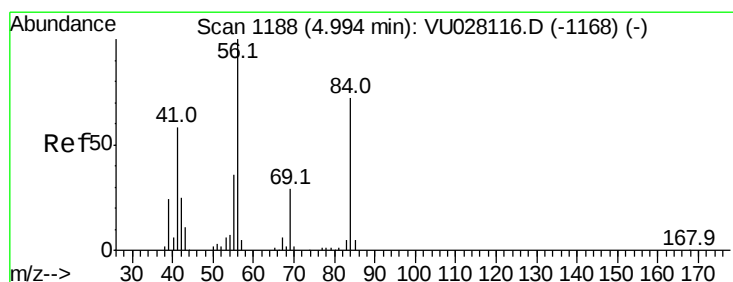
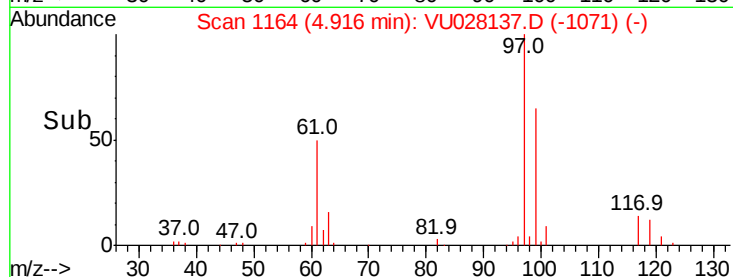
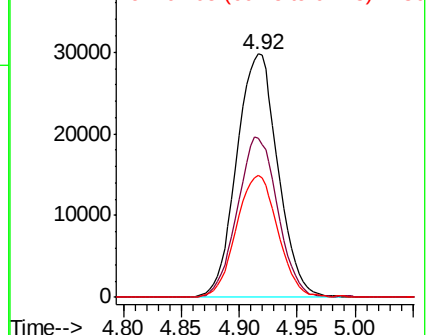


Abundance

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: 4.883 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

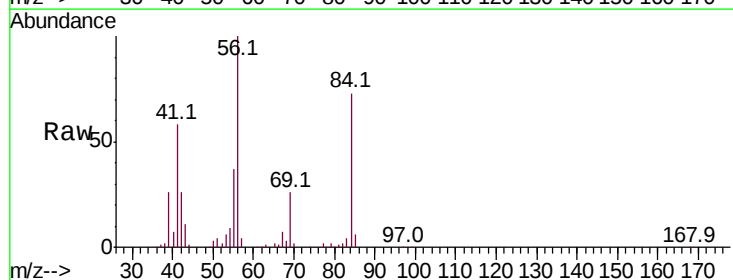
Tgt Ion: 56 Resp: 100855

Ion Ratio Lower Upper

56 100

69 27.1 22.6 33.8

84 72.6 57.7 86.5

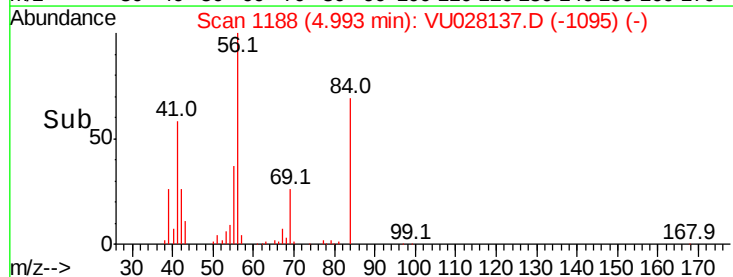
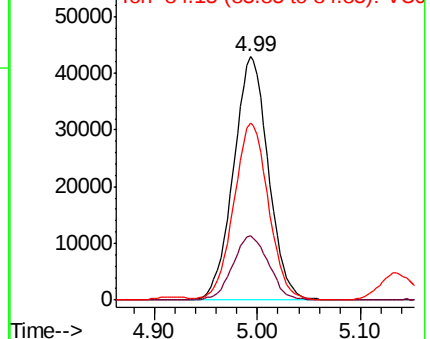


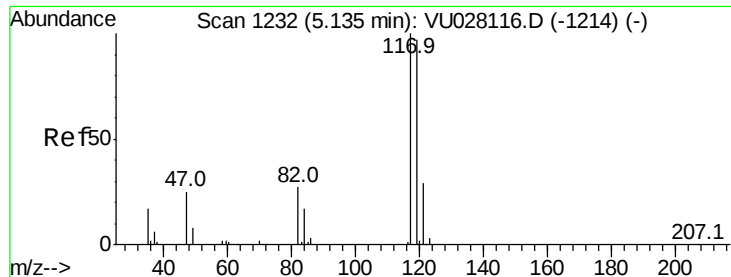
Abundance

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

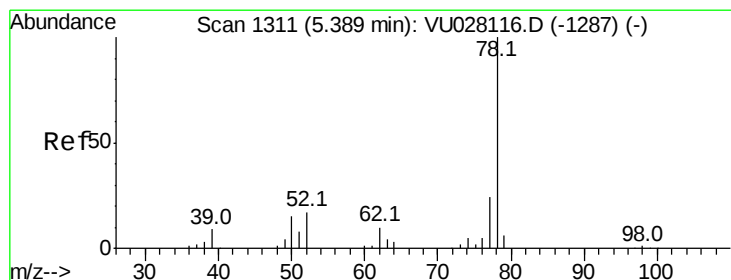
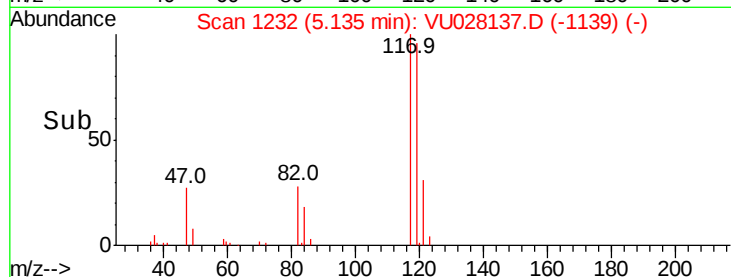
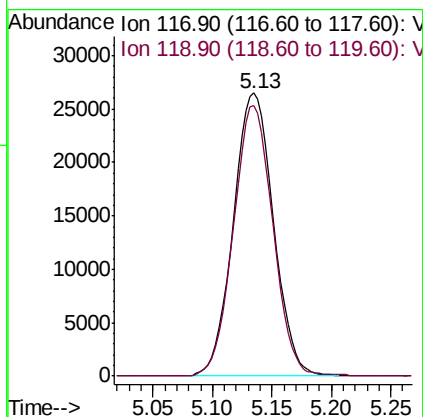
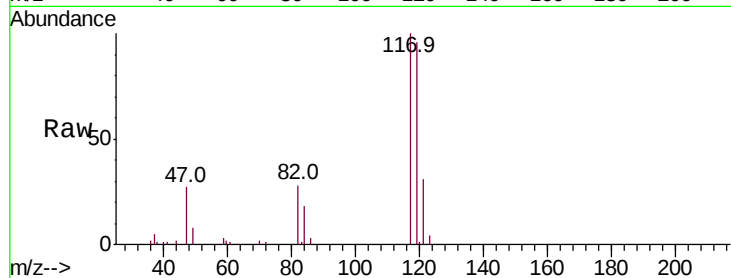




#31
Carbon tetrachloride
Concen: 5.071 ug/L
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

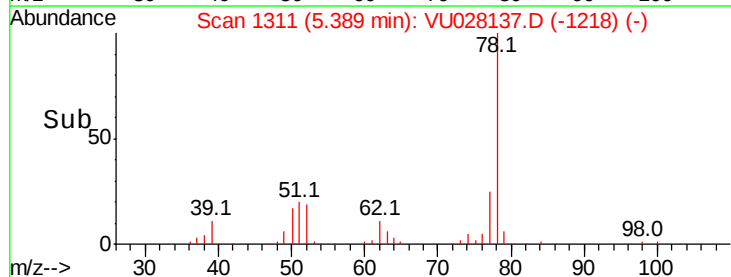
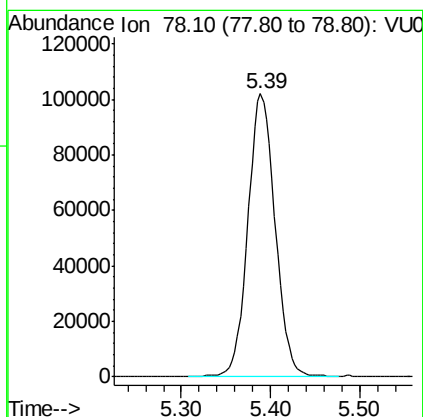
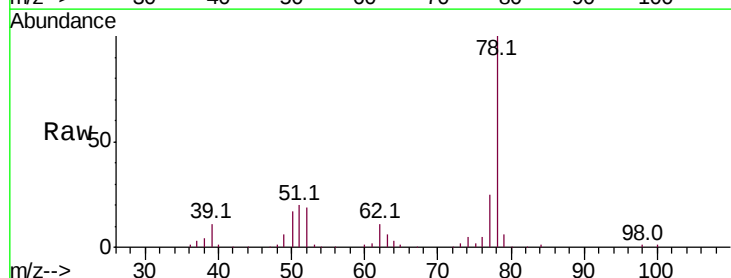
Instrument :
MSVOA_U
ClientSampleId :

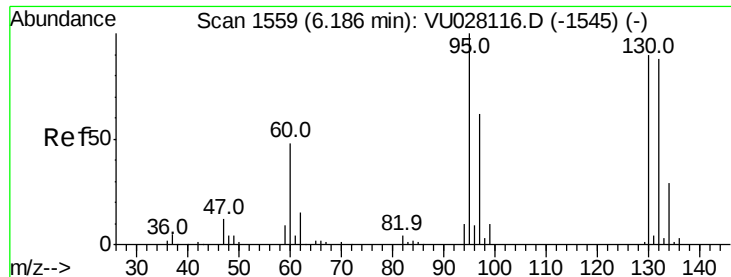
Tot Ion:117 Resp: 61984
Ion Ratio Lower Upper
117 100
119 93.8 75.7 113.5



#33
Benzene
Concen: 4.969 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Tgt Ion: 78 Resp: 217845

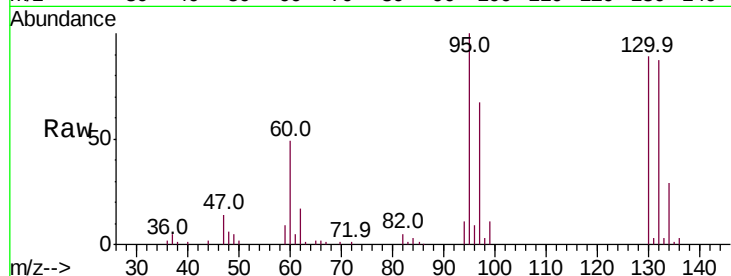




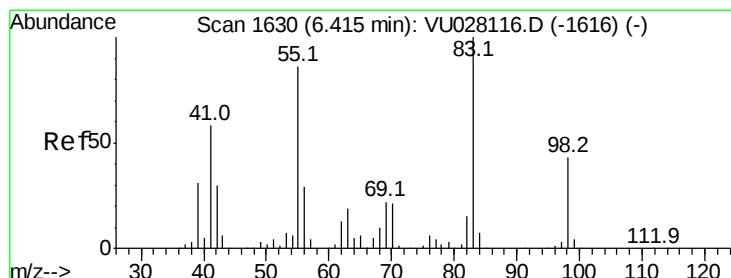
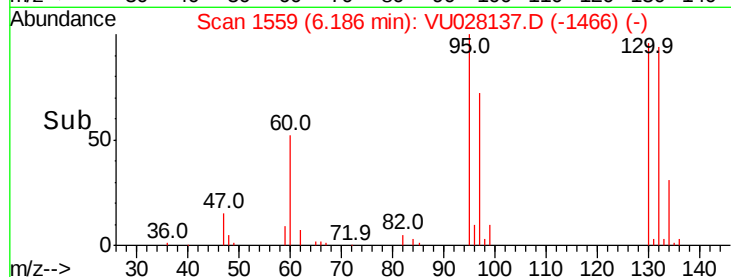
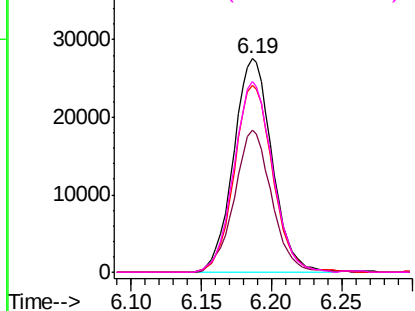
#34
 Trichloroethene
 Concen: 4.875 ug/L
 RT: 6.19 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 52826
 Ion Ratio Lower Upper
 95 100
 97 66.8 45.3 84.1
 132 87.4 63.0 117.0
 130 89.4 63.6 118.2

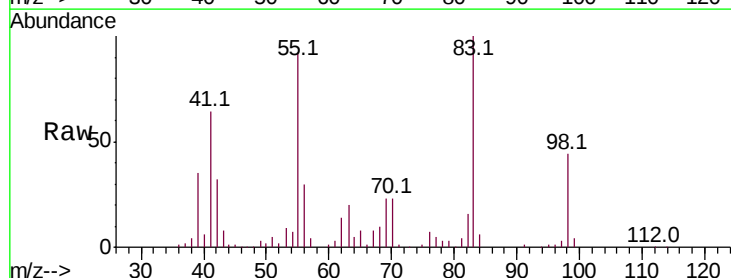


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

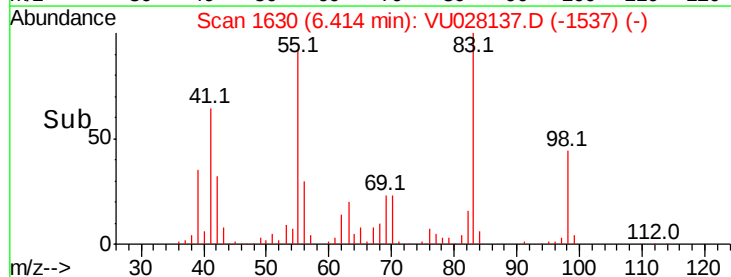
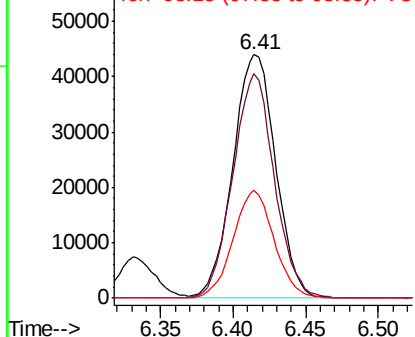


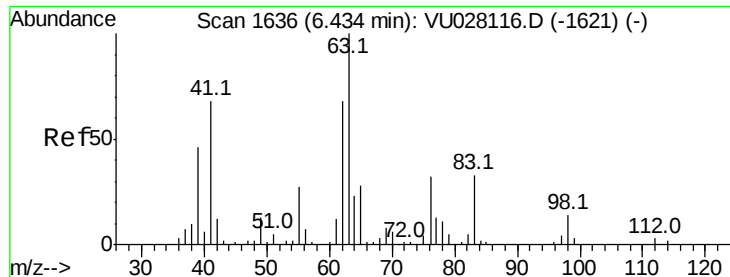
#35
 Methylcyclohexane
 Concen: 4.818 ug/L
 RT: 6.41 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Tgt Ion: 83 Resp: 89751
 Ion Ratio Lower Upper
 83 100
 55 89.9 69.0 103.4
 98 42.7 33.3 49.9



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

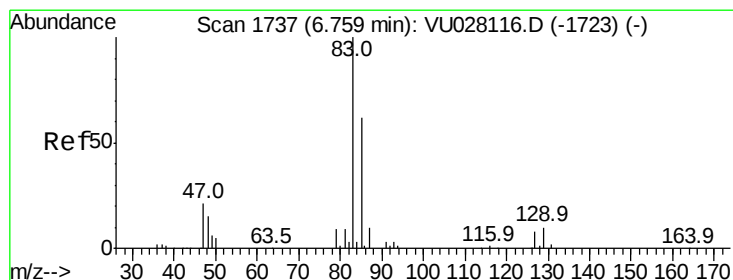
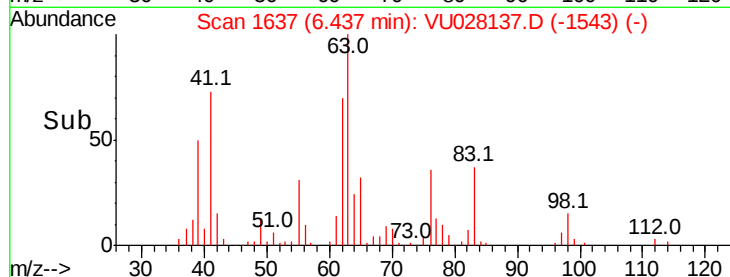
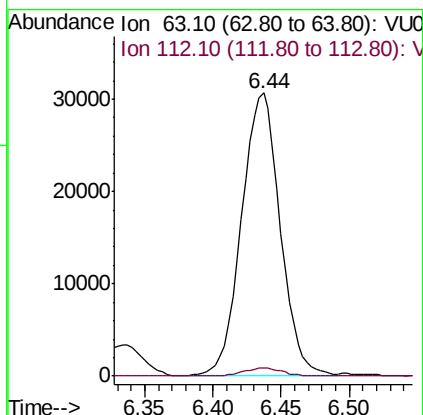
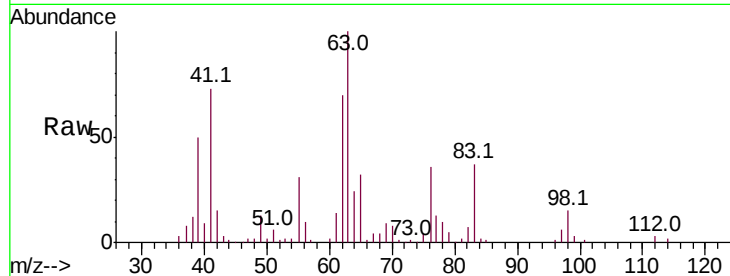




#37
 1,2-Dichloropropane
 Concen: 4.979 ug/L
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

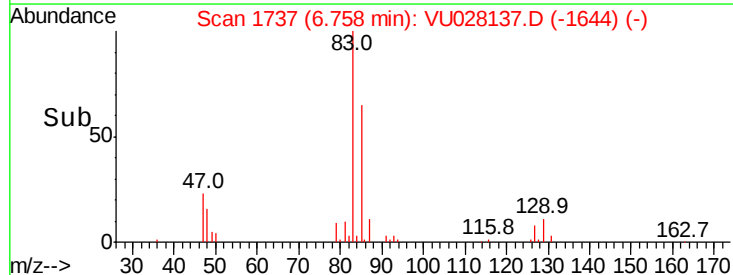
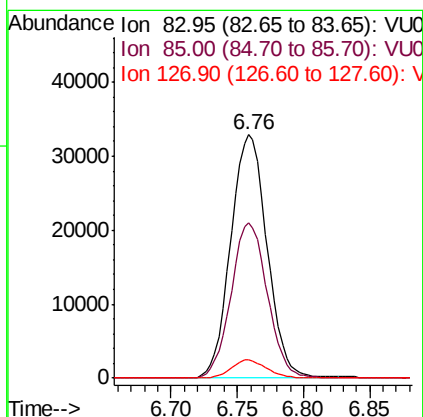
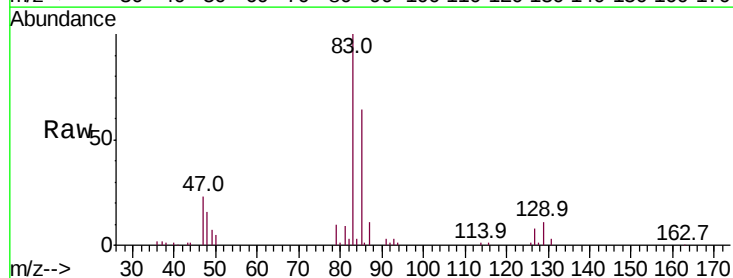
Instrument :
 MSVOA_U
 ClientSampleId :

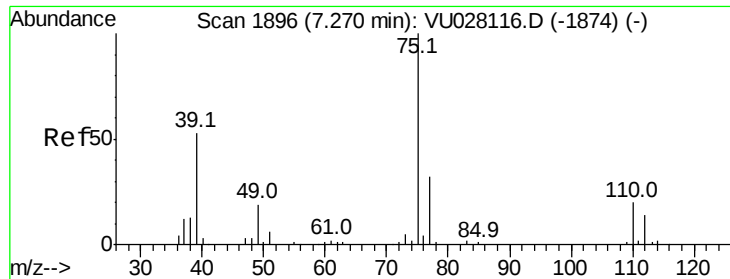
Tot Ion: 63 Resp: 60364
 Ion Ratio Lower Upper
 63 100
 112 2.8 2.2 3.4



#38
 Bromodichloromethane
 Concen: 4.857 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Tgt Ion: 83 Resp: 62653
 Ion Ratio Lower Upper
 83 100
 85 64.0 44.5 82.7
 127 7.6 6.8 10.2

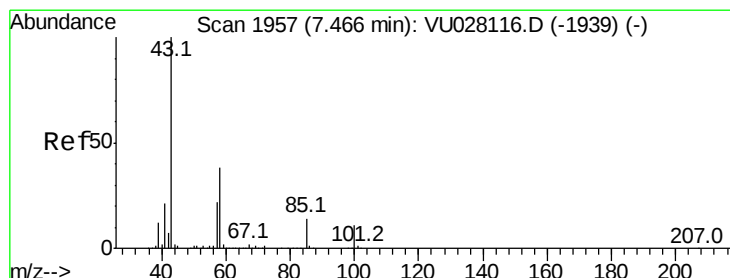
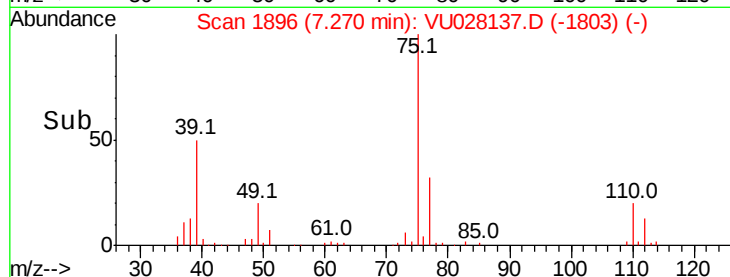
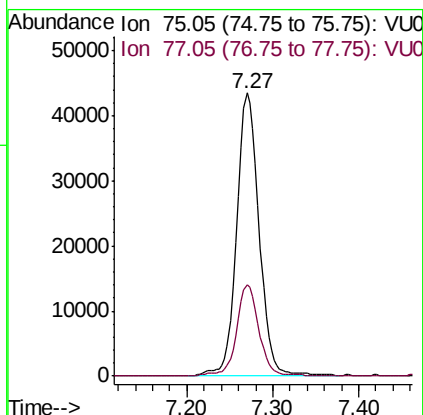
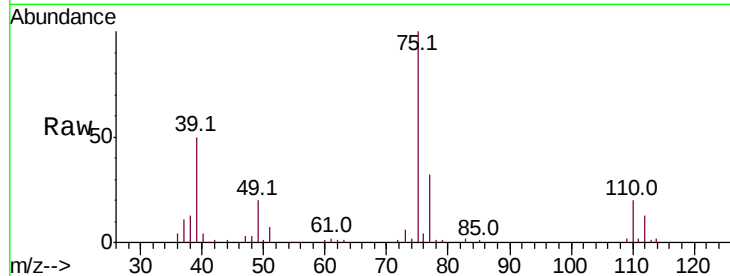




#39
 cis-1,3-Dichloropropene
 Concen: 4.823 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

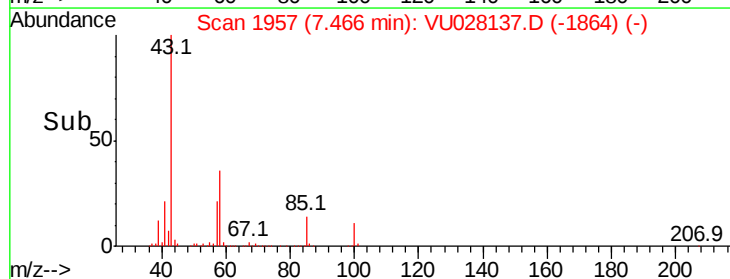
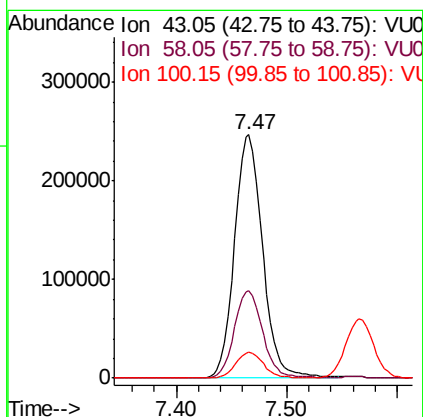
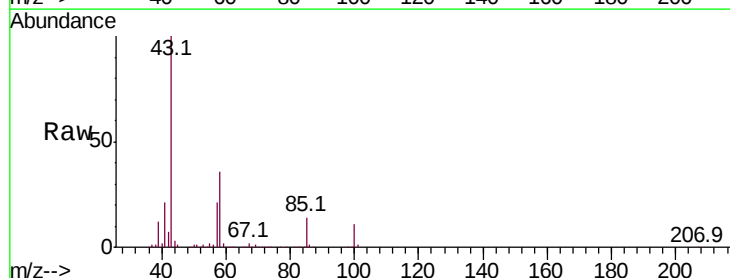
Instrument :
 MSVOA_U
 ClientSampleId :

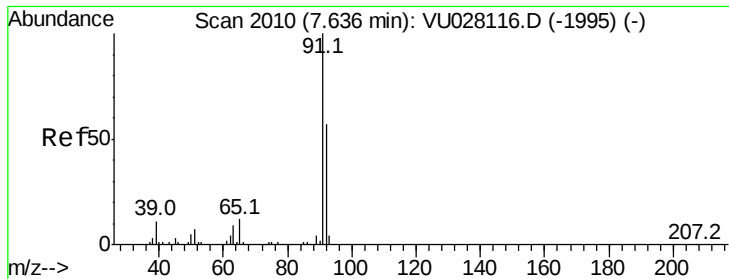
Tot Ion: 75 Resp: 79058
 Ion Ratio Lower Upper
 75 100
 77 32.3 20.9 38.9



#40
 4-Methyl-2-pentanone
 Concen: 52.277 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Tgt Ion: 43 Resp: 436467
 Ion Ratio Lower Upper
 43 100
 58 36.3 29.9 44.9
 100 10.6 9.1 13.7





#42

Toluene

Concen: 4.977 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :

MSVOA_U

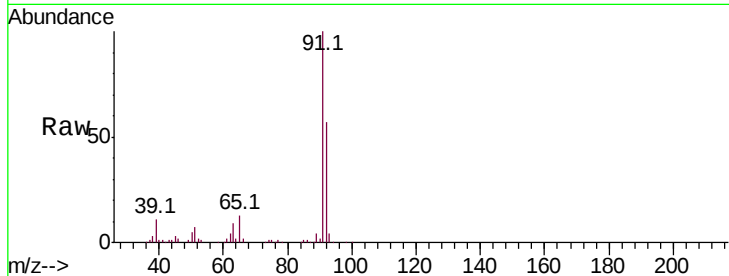
ClientSampled :

Tot Ion: 91 Resp: 224977

Ion Ratio Lower Upper

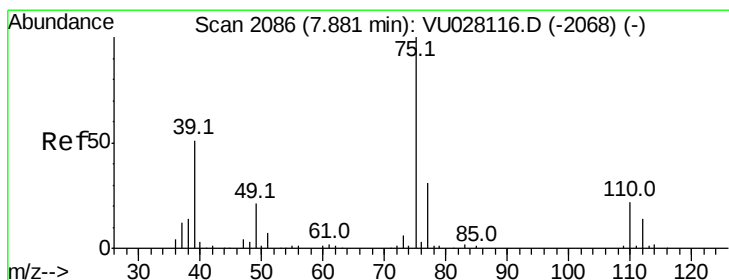
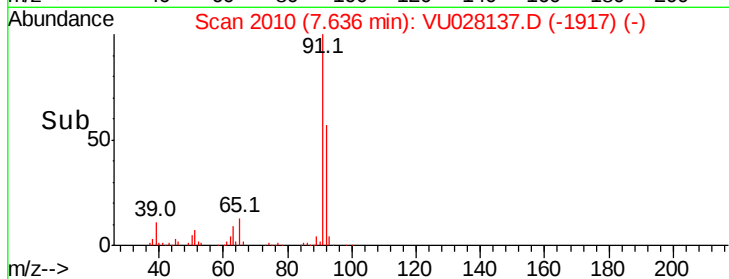
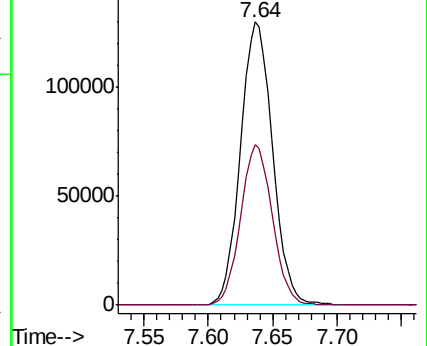
91 100

92 56.9 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 4.542 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU028137.D

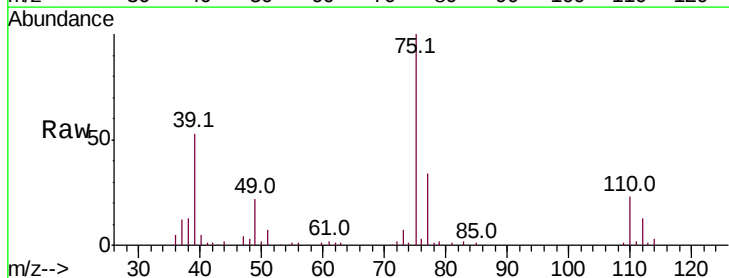
Acq: 14 Nov 2018 22:09

Tgt Ion: 75 Resp: 58335

Ion Ratio Lower Upper

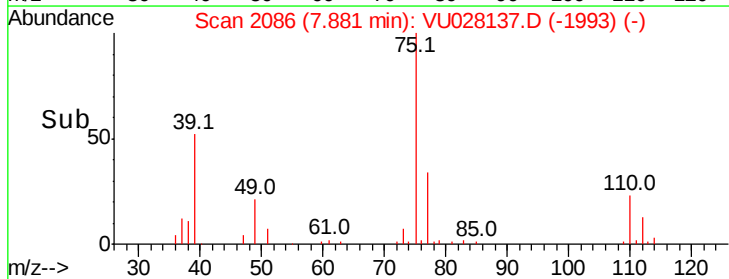
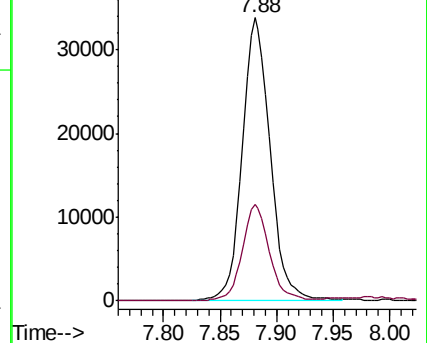
75 100

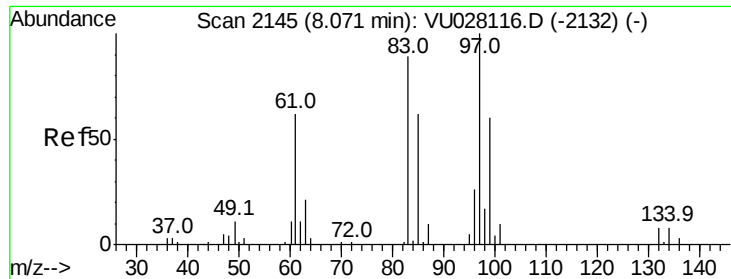
77 34.2 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 4.997 ug/L

RT: 8.07 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 36580

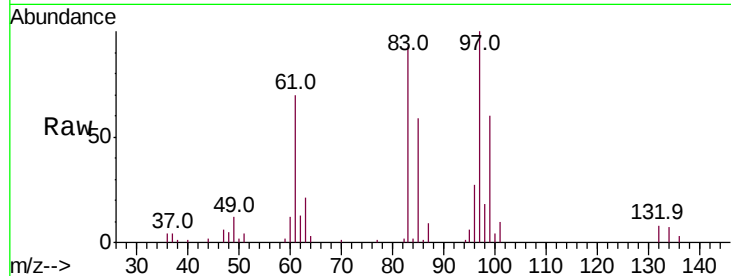
Ion Ratio Lower Upper

97 100

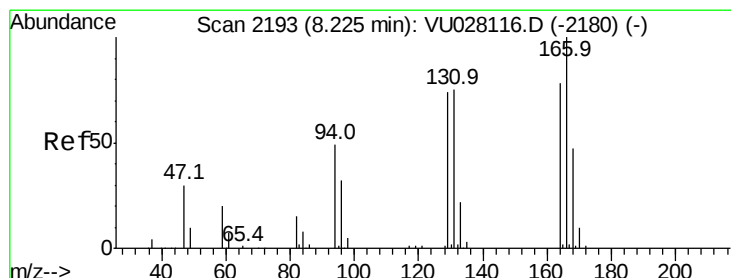
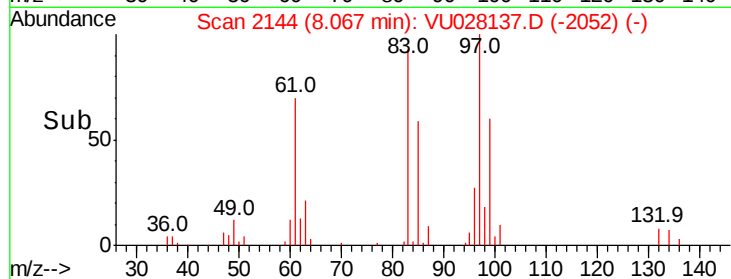
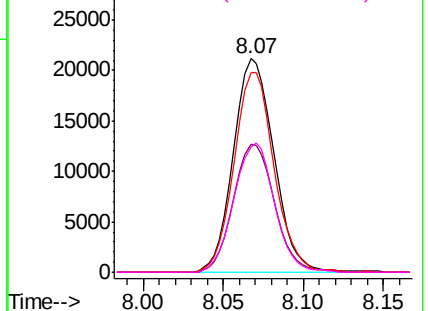
99 59.7 42.1 78.1

83 93.2 63.7 118.3

85 58.6 40.6 75.4



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: 4.358 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Tgt Ion:164 Resp: 38391

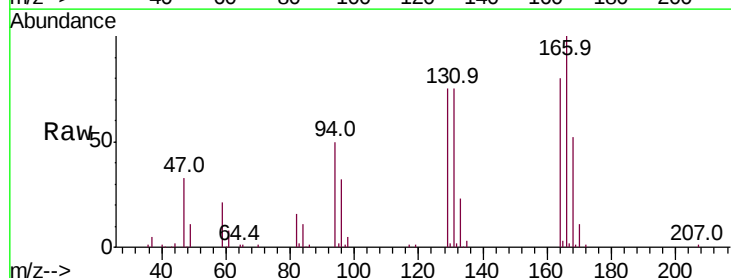
Ion Ratio Lower Upper

164 100

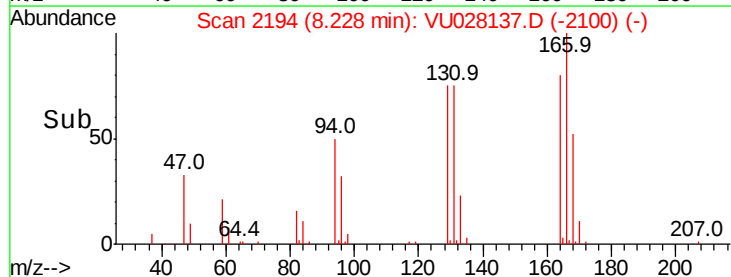
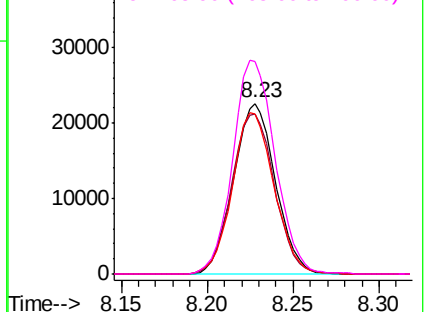
129 93.6 69.7 129.4

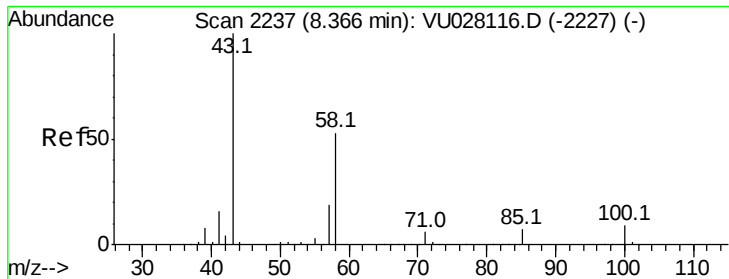
131 93.9 64.0 118.8

166 124.4 86.4 160.4



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

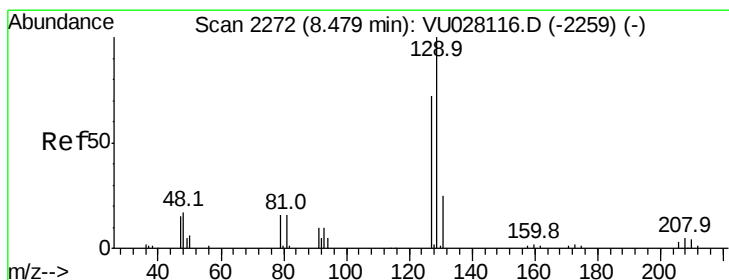
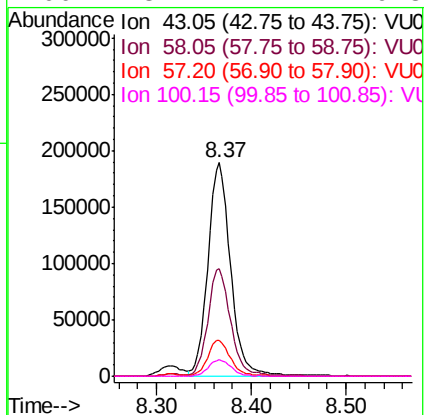
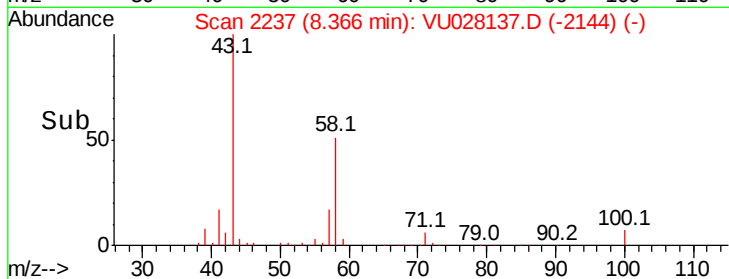
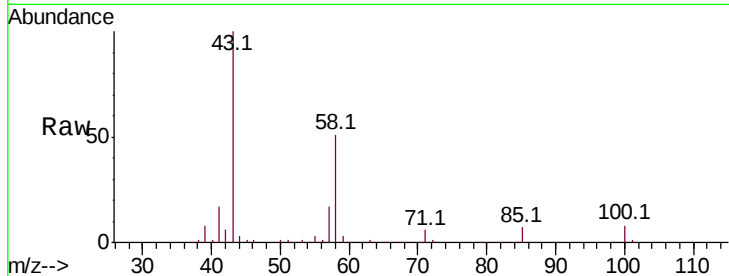




#48
2-Hexanone
Concen: 53.057 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

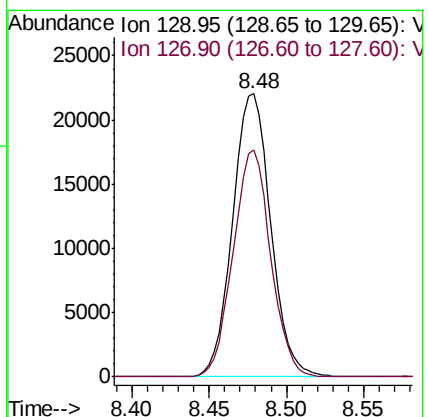
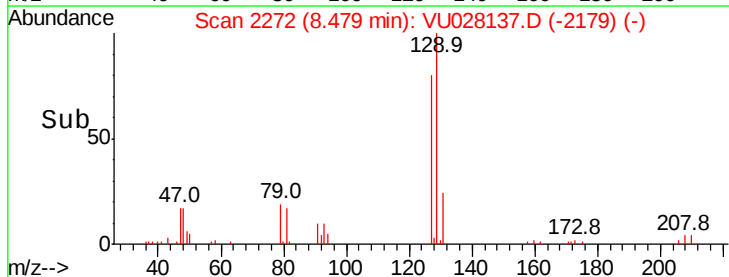
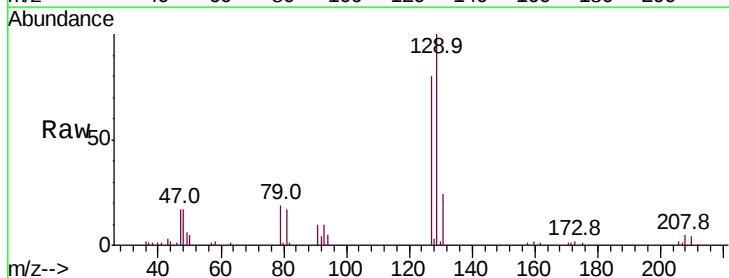
Instrument :
MSVOA_U
ClientSampled :

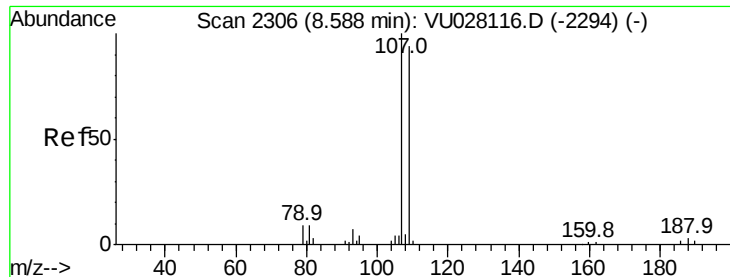
Tot Ion: 43 Resp: 315201
Ion Ratio Lower Upper
43 100
58 50.0 41.7 62.5
57 17.1 14.0 21.0
100 8.1 7.2 10.8



#49
Dibromochloromethane
Concen: 4.846 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Tgt Ion: 129 Resp: 37759
Ion Ratio Lower Upper
129 100
127 80.4 54.1 100.5

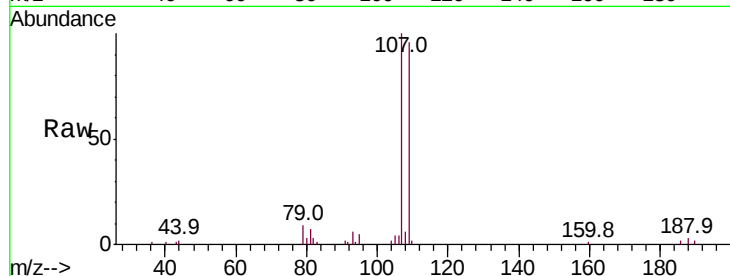




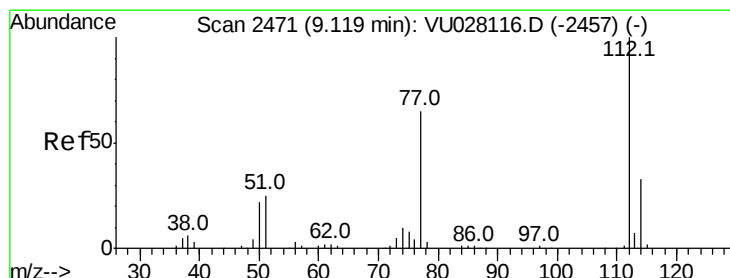
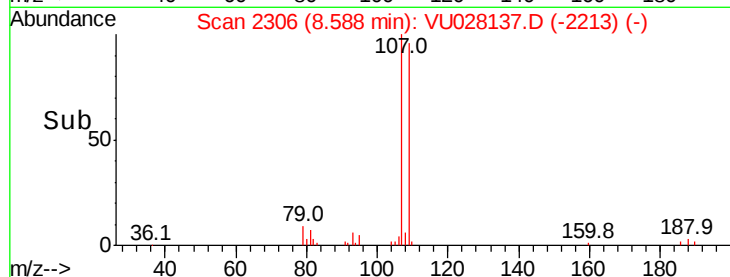
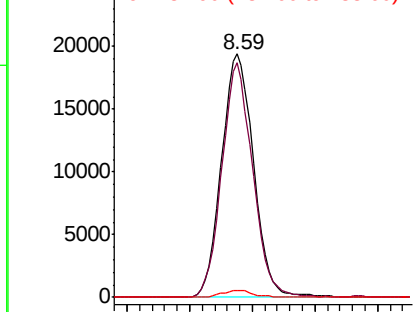
#50
1,2-Dibromoethane
Concen: 4.986 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:107 Resp: 34363
Ion Ratio Lower Upper
107 100
109 96.5 66.6 123.8
188 3.0 2.5 3.7

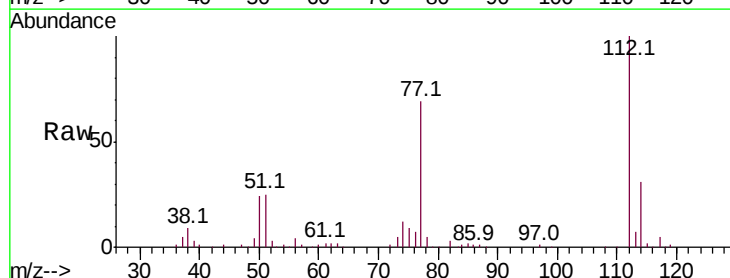


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

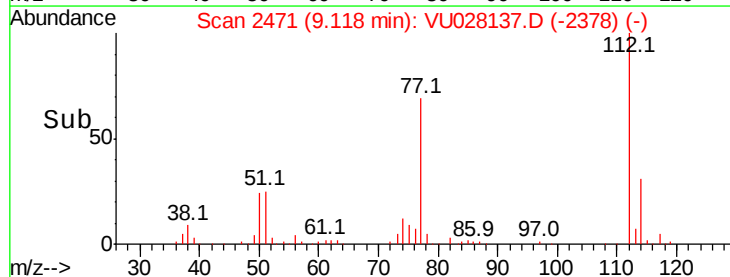
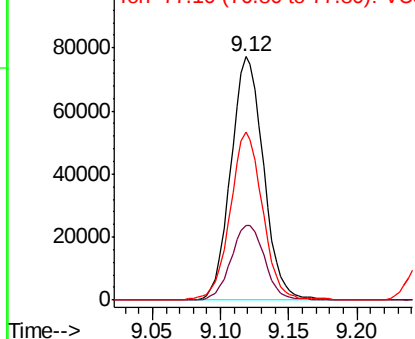


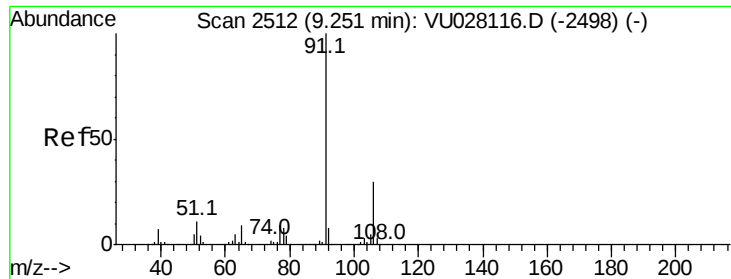
#51
Chlorobenzene
Concen: 4.859 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Tgt Ion:112 Resp: 128426
Ion Ratio Lower Upper
112 100
114 30.9 22.5 41.7
77 69.0 51.3 76.9



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

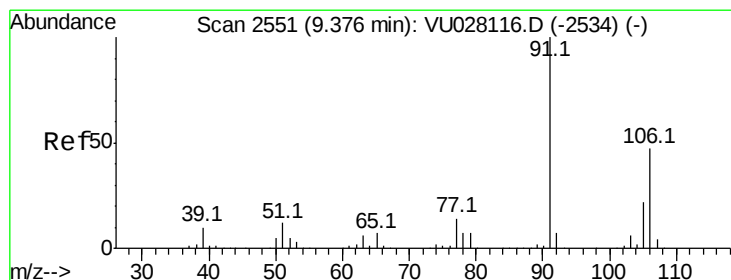
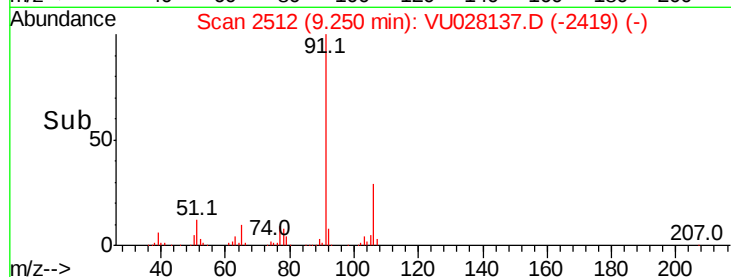
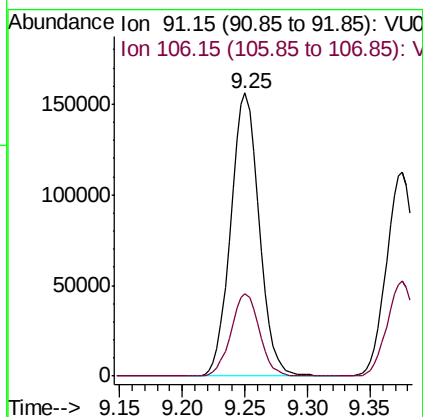
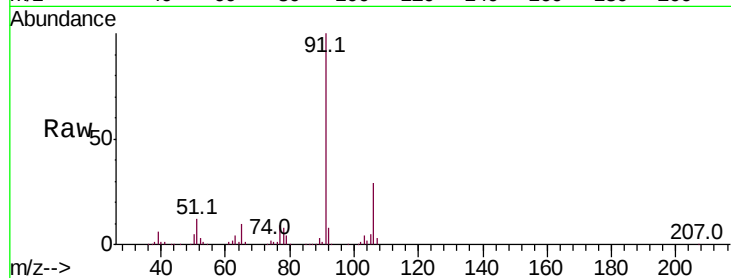




#52
Ethylbenzene
Concen: 4.986 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

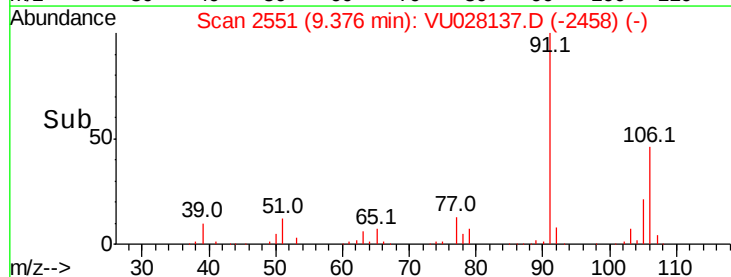
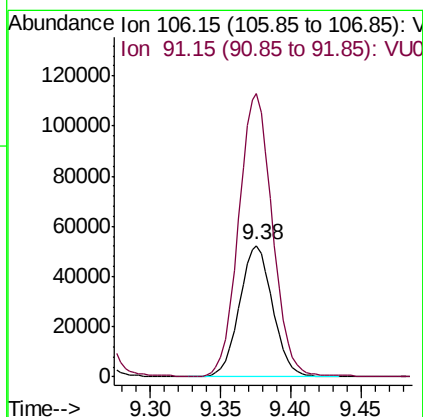
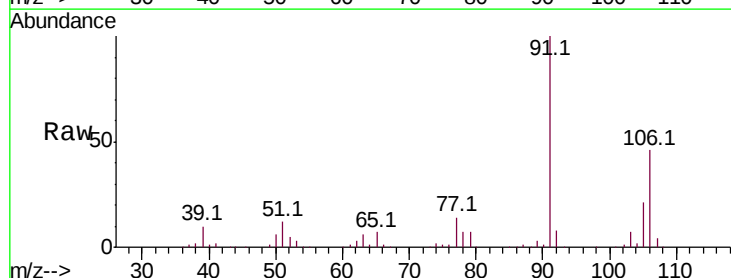
Instrument :
MSVOA_U
ClientSampled :

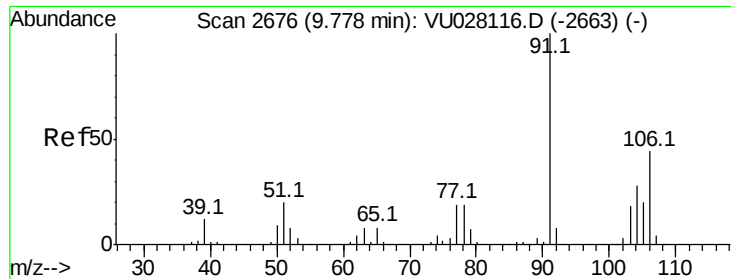
Tot Ion: 91 Resp: 246025
Ion Ratio Lower Upper
91 100
106 29.1 20.9 38.7



#53
m,p-xylene
Concen: 4.819 ug/L
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Tgt Ion: 106 Resp: 86622
Ion Ratio Lower Upper
106 100
91 215.9 145.7 270.7

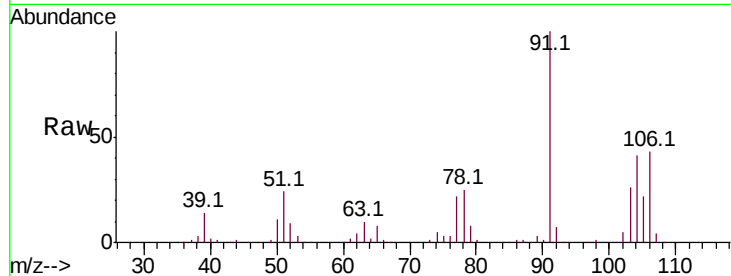




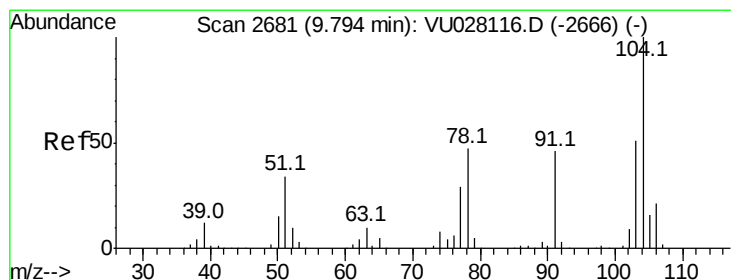
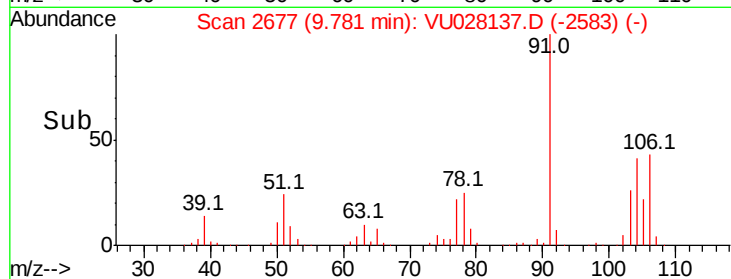
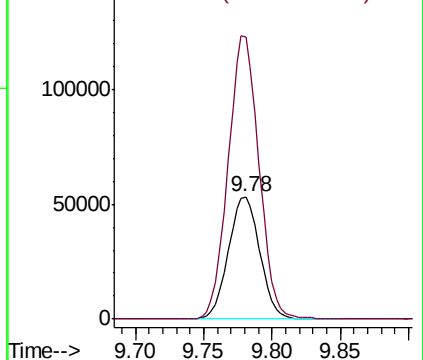
#54
o-xylene
Concen: 4.927 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 85280
Ion Ratio Lower Upper
106 100
91 230.5 158.7 294.7

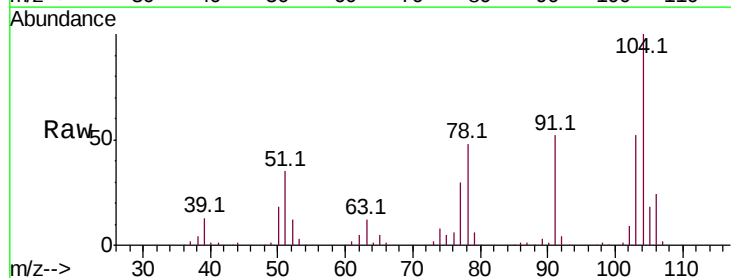


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

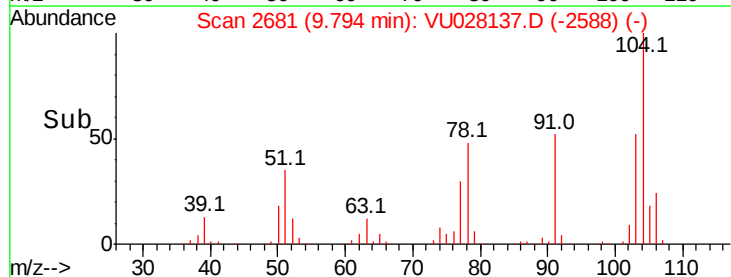
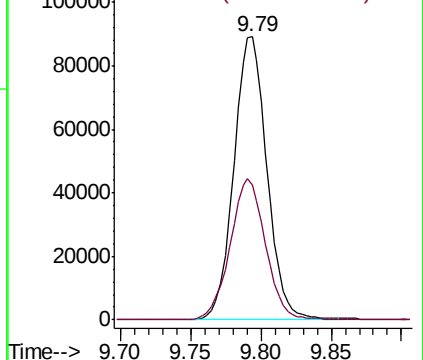


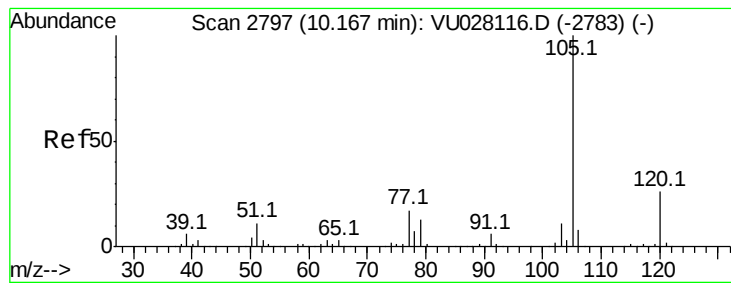
#55
Styrene
Concen: 5.011 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Tgt Ion:104 Resp: 146667
Ion Ratio Lower Upper
104 100
78 47.6 34.5 64.1



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





#56

Isopropylbenzene

Concen: 4.890 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :

MSVOA_U

ClientSampleId :

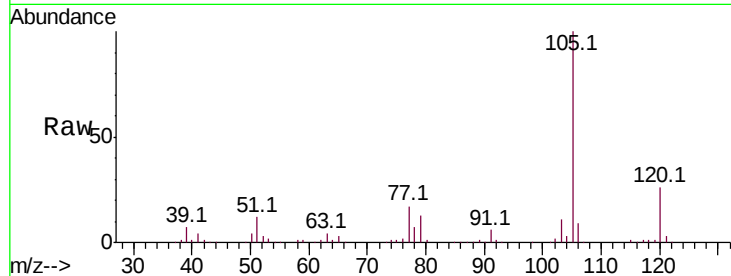
Tot Ion:105 Resp: 228935

Ion Ratio Lower Upper

105 100

120 25.1 20.5 30.7

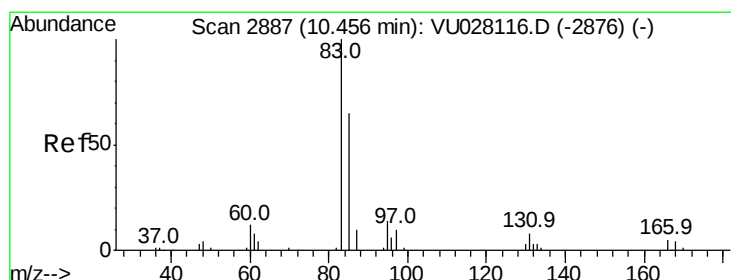
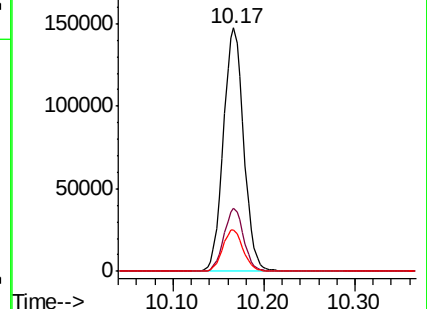
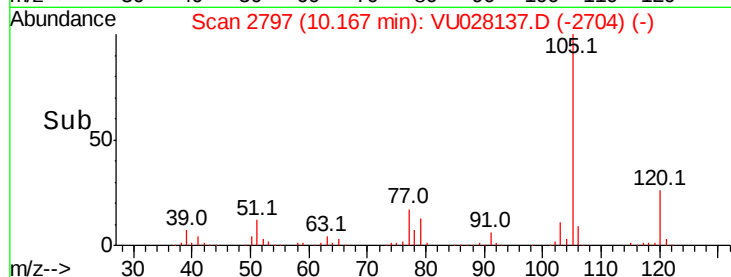
77 17.3 13.3 19.9



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: 5.173 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

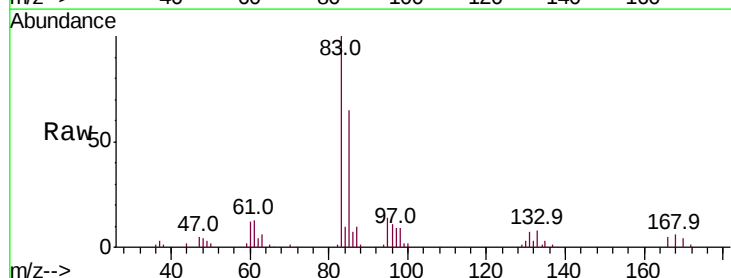
Tgt Ion: 83 Resp: 48807

Ion Ratio Lower Upper

83 100

85 65.3 46.7 86.7

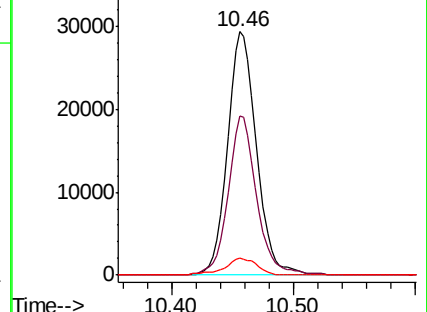
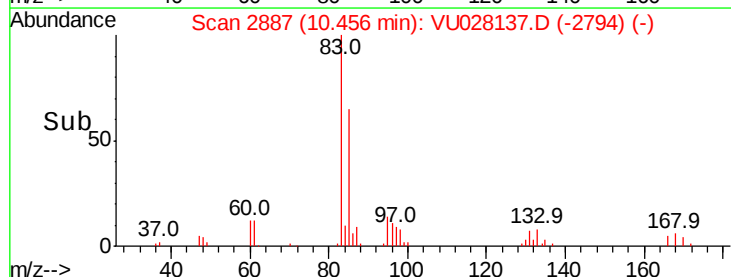
131 7.1 5.9 8.9

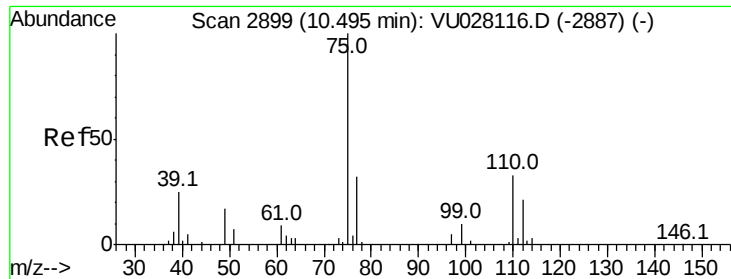


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.013 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :

MSVOA_U

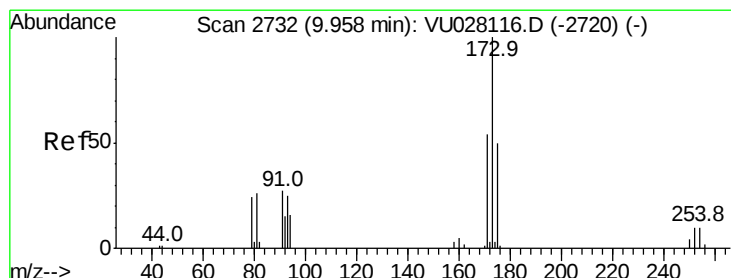
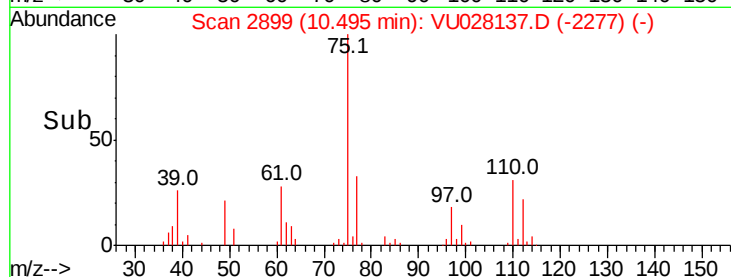
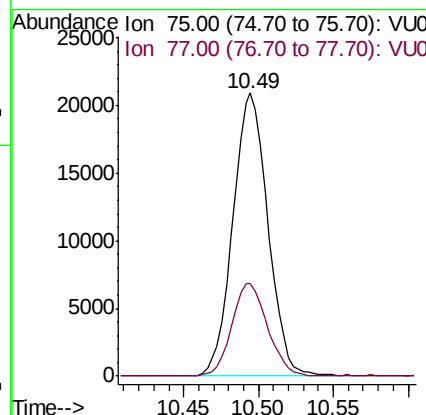
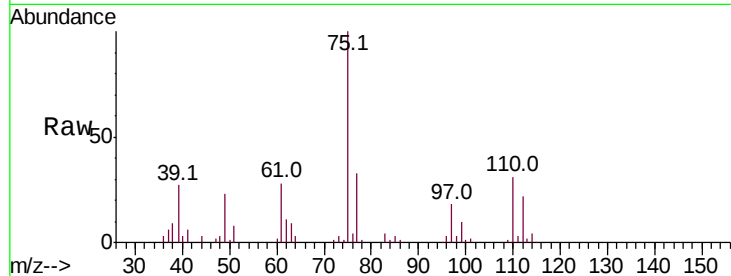
ClientSampleId :

Tot Ion: 75 Resp: 34135

Ion Ratio Lower Upper

75 100

77 33.1 25.4 38.0



#61

Bromoform

Concen: 4.617 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

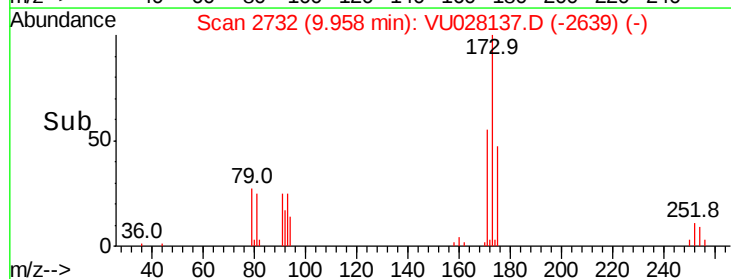
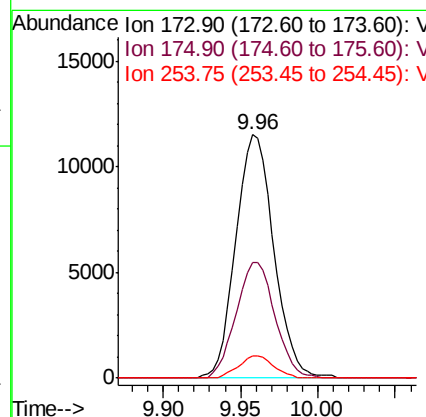
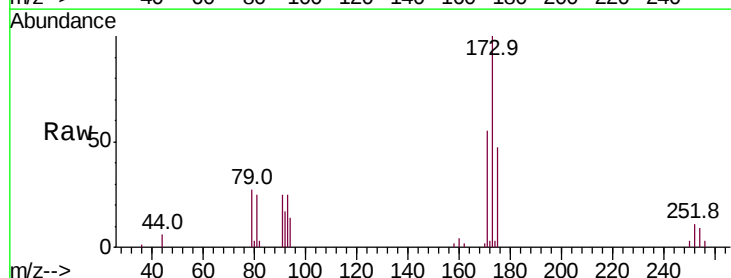
Tgt Ion: 173 Resp: 19654

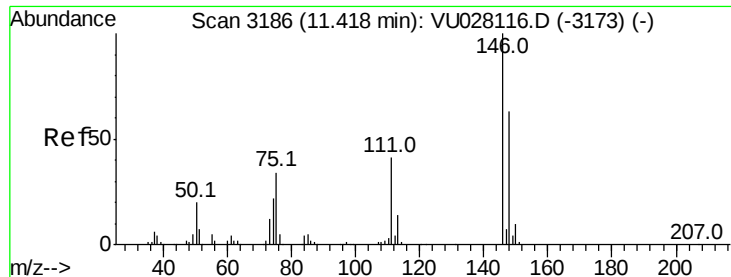
Ion Ratio Lower Upper

173 100

175 48.6 38.2 57.2

254 8.5 7.1 10.7





#62

1,3-Dichlorobenzene

Concen: 4.850 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :

MSVOA_U

ClientSampleId :

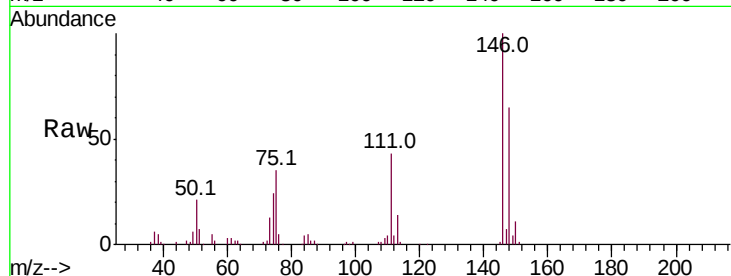
Tot Ion:146 Resp: 96545

Ion Ratio Lower Upper

146 100

111 43.3 29.3 54.3

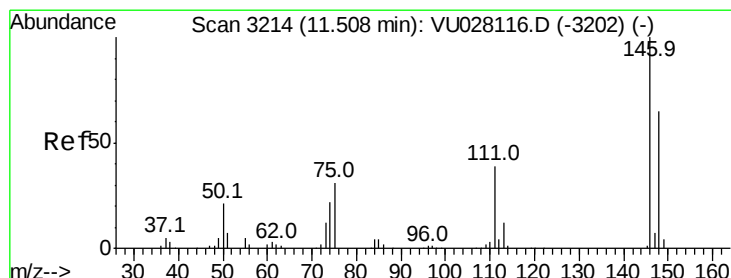
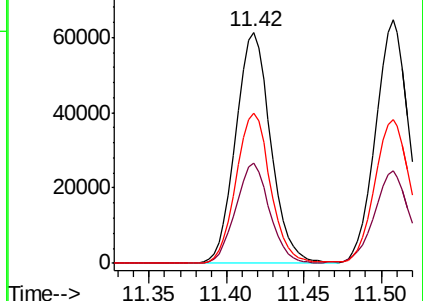
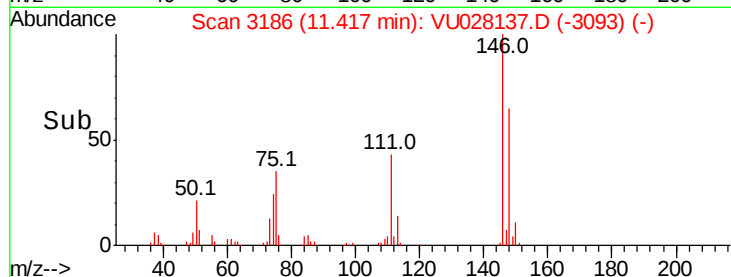
148 64.9 44.1 81.9



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: 4.889 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

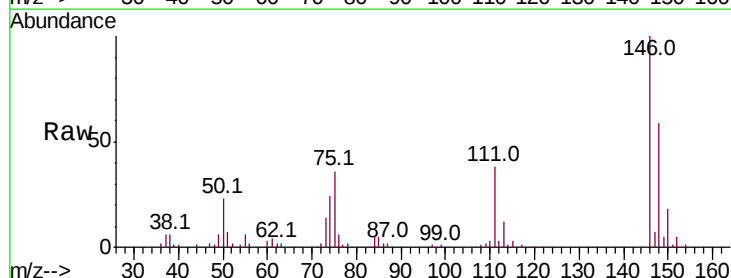
Tgt Ion:146 Resp: 98504

Ion Ratio Lower Upper

146 100

111 38.0 27.4 51.0

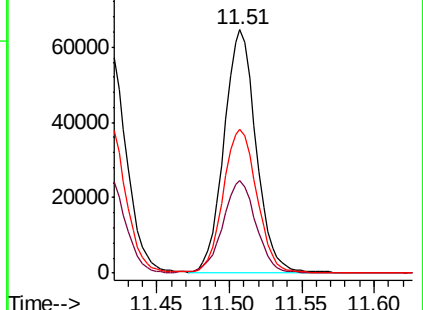
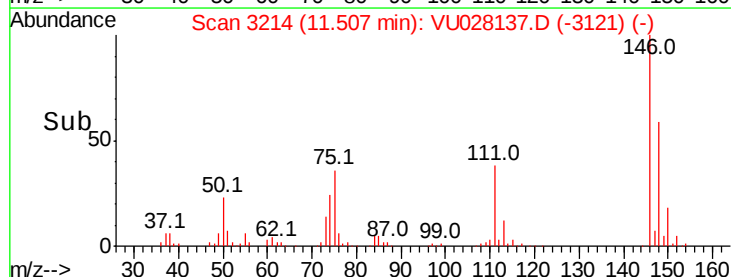
148 59.0 43.8 81.3

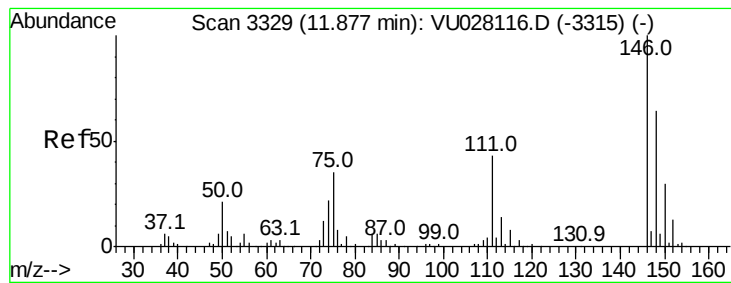


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.857 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

Instrument :

MSVOA_U

ClientSampleId :

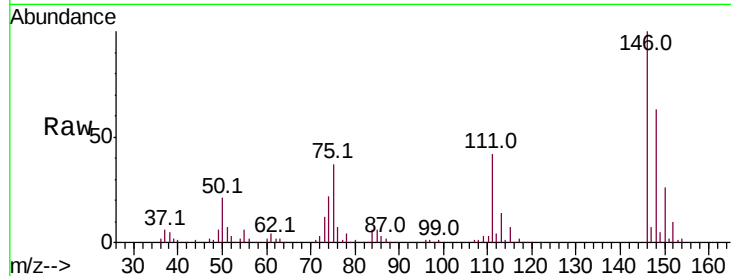
Tot Ion:146 Resp: 92459

Ion Ratio Lower Upper

146 100

111 42.3 33.9 50.9

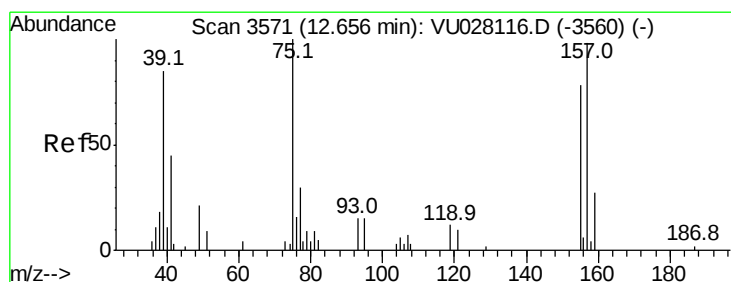
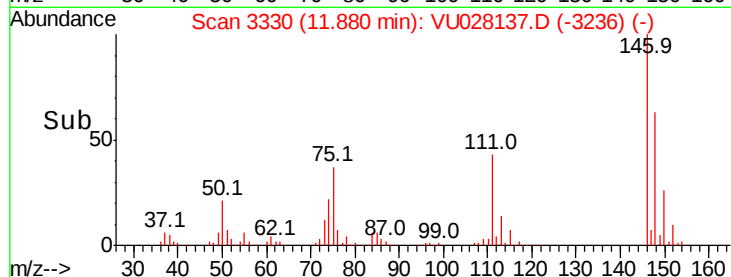
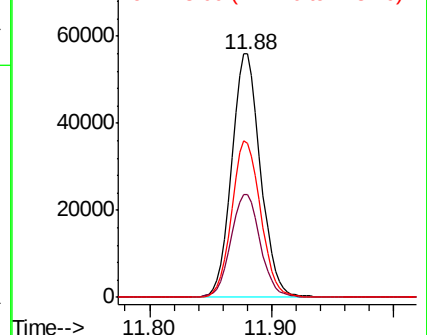
148 63.4 50.9 76.3



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: 4.986 ug/L

RT: 12.66 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VU028137.D

Acq: 14 Nov 2018 22:09

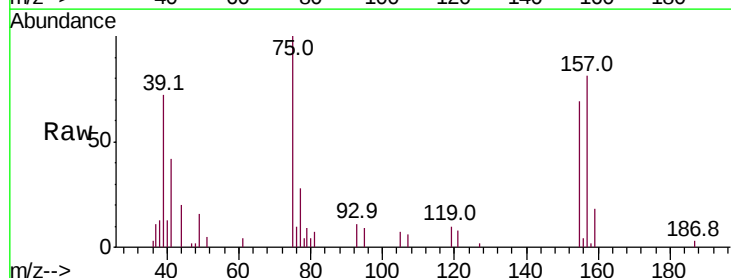
Tgt Ion: 75 Resp: 6886

Ion Ratio Lower Upper

75 100

155 69.2 62.8 94.2

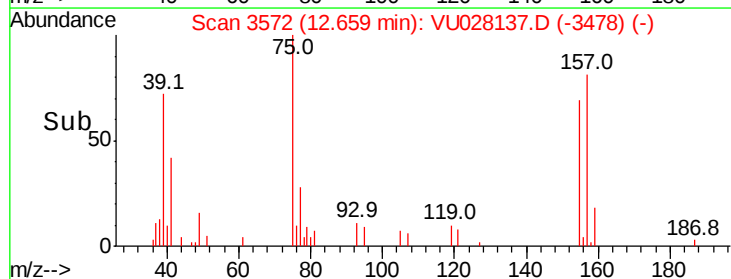
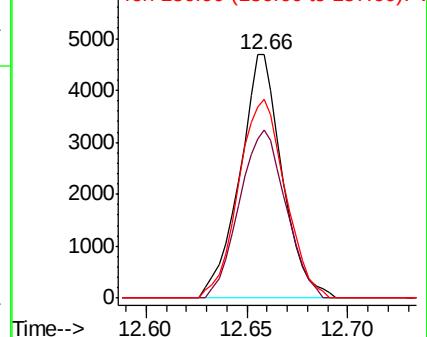
157 81.5 85.3 127.9#

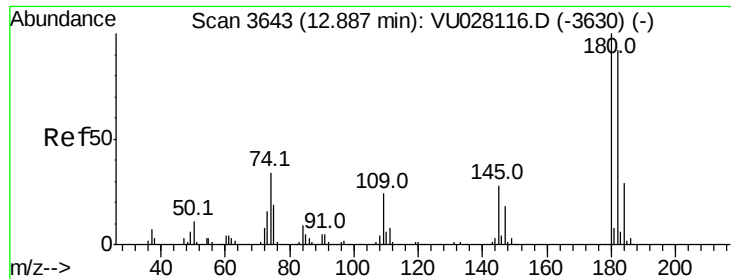


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

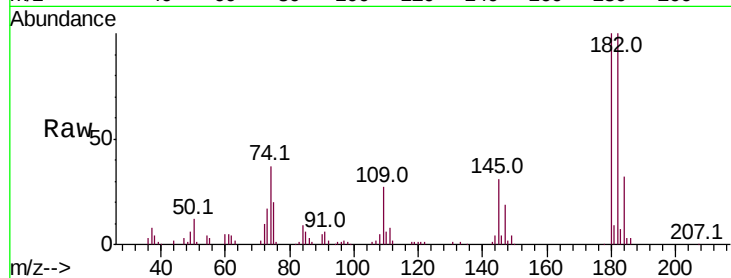




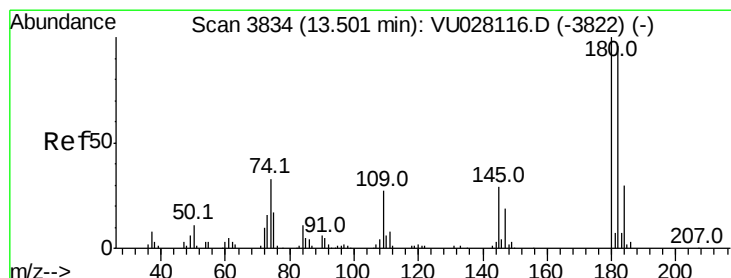
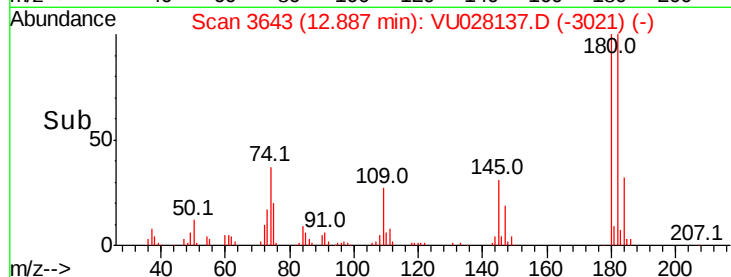
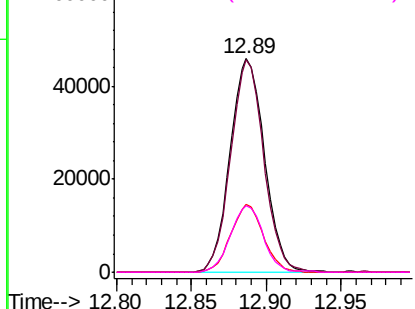
#67
 1,3,5-Trichlorobenzene
 Concen: 4.811 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	73463
Ion Ratio	Lower	Upper
180	100	
182	96.0	76.6 114.8
184	29.9	24.7 37.1
145	29.9	24.0 36.0

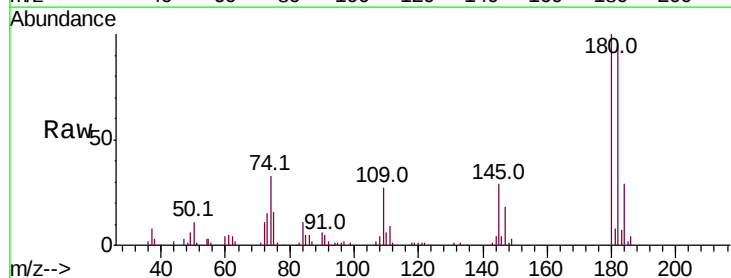


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

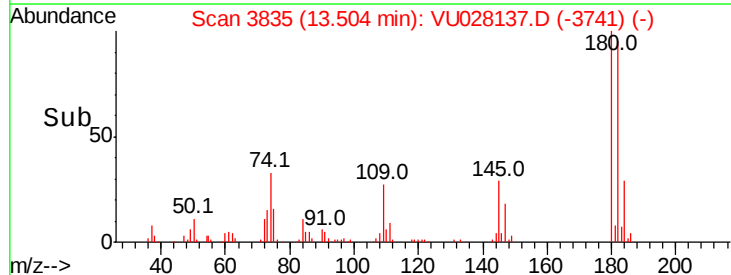
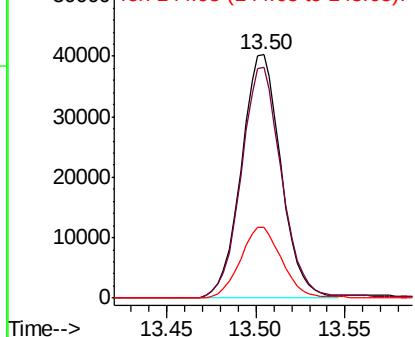


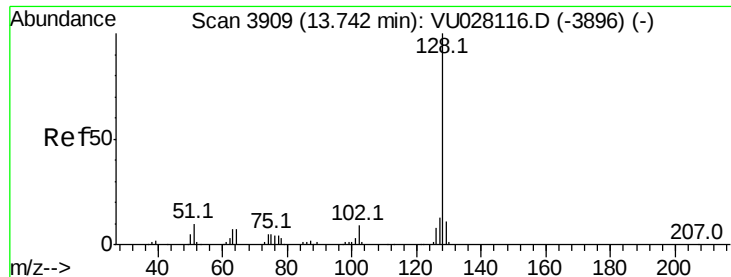
#68
 1,2,4-trichlorobenzene
 Concen: 4.729 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028137.D
 Acq: 14 Nov 2018 22:09

Tgt Ion:180	Resp:	62937
Ion Ratio	Lower	Upper
180	100	
182	97.0	75.1 112.7
145	30.3	23.4 35.0



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

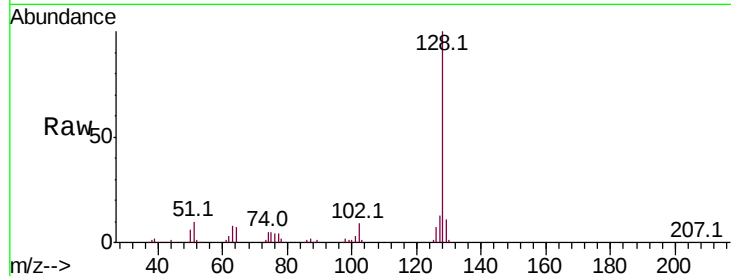




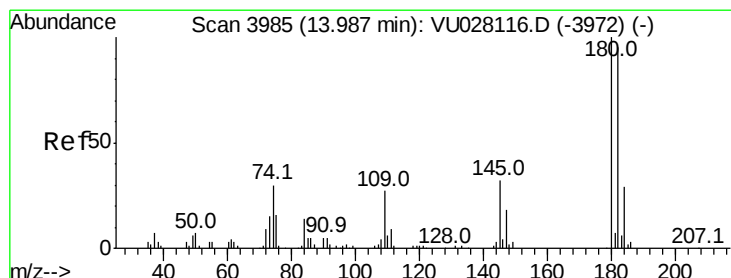
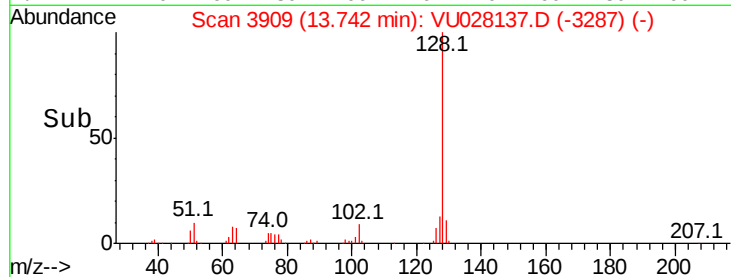
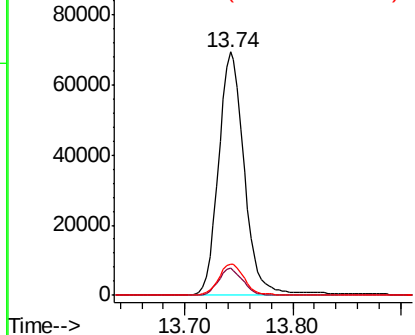
#69
Naphthalene
Concen: 4.683 ug/L
RT: 13.74 min Scan# 3909
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 116152
Ion Ratio Lower Upper
128 100
129 10.4 8.5 12.7
127 13.0 10.2 15.4

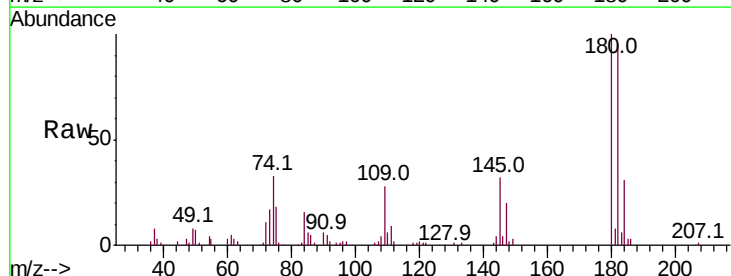


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70
1,2,3-Trichlorobenzene
Concen: 4.918 ug/L
RT: 13.99 min Scan# 3985
Delta R.T. -0.00 min
Lab File: VU028137.D
Acq: 14 Nov 2018 22:09

Tgt Ion:180 Resp: 60301
Ion Ratio Lower Upper
180 100
182 93.0 77.6 116.4
145 31.1 26.2 39.4



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

