

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028152.D
 Acq On : 15 Nov 2018 04:28
 Operator : MD/SY
 Sample : J5943-14MSD
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FL1MSD

Quant Time: Nov 15 06:19:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 06:14:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	130735	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	124738	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	57550	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	51264	4.73	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.60%
7) Chloroethane-d5	1.68	69	37887	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.00%
11) 1,1-Dichloroethene-d2	2.28	63	92694	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.40%
20) 2-Butanone-d5	4.21	46	169444	53.85	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.70%
24) Chloroform-d	4.65	84	79239	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.31	65	46089	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
32) Benzene-d6	5.34	84	164818	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.33	67	61903	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.60%
41) Toluene-d8	7.57	98	145544	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
43) trans-1,3-Dichloropropene-	7.85	79	18098	3.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.20%
46) 2-Hexanone-d5	8.32	63	129804	49.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.48%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	43401	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	51146	4.76	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.20%

Target Compounds

					Ovalue
3) Chloromethane	1.40	50	5514	0.374	ug/L # 46
5) Vinyl chloride	1.40	62	814188	58.143	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	754	0.088	ug/L # 23
12) 1,1-Dichloroethene	2.29	96	45420	5.225	ug/L 93
18) trans-1,2-Dichloroethene	2.98	96	77058	8.338	ug/L 97
19) 1,1-Dichloroethane	3.45	63	144158	7.417	ug/L 100
22) cis-1,2-Dichloroethene	4.23	96	348727	34.224	ug/L 97
27) 1,2-Dichloroethane	5.39	62	2444	0.213	ug/L # 76
30) Cyclohexane	5.00	56	1667	0.084	ug/L # 87
33) Benzene	5.39	78	237143	5.643	ug/L 100
34) Trichloroethene	6.19	95	57249	5.512	ug/L 97
37) 1,2-Dichloropropane	6.44	63	1134	0.098	ug/L # 92
39) cis-1,3-Dichloropropene	7.23	75	1391	0.089	ug/L # 77
42) Toluene	7.64	91	215558	4.975	ug/L 97
47) Tetrachloroethene	8.23	164	607	0.072	ug/L 80
48) 2-Hexanone	8.32	43	15625	2.744	ug/L # 65
49) Dibromochloromethane	8.22	129	717	0.096	ug/L # 11

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 15 06:14:20 2018
Response via : Initial Calibration

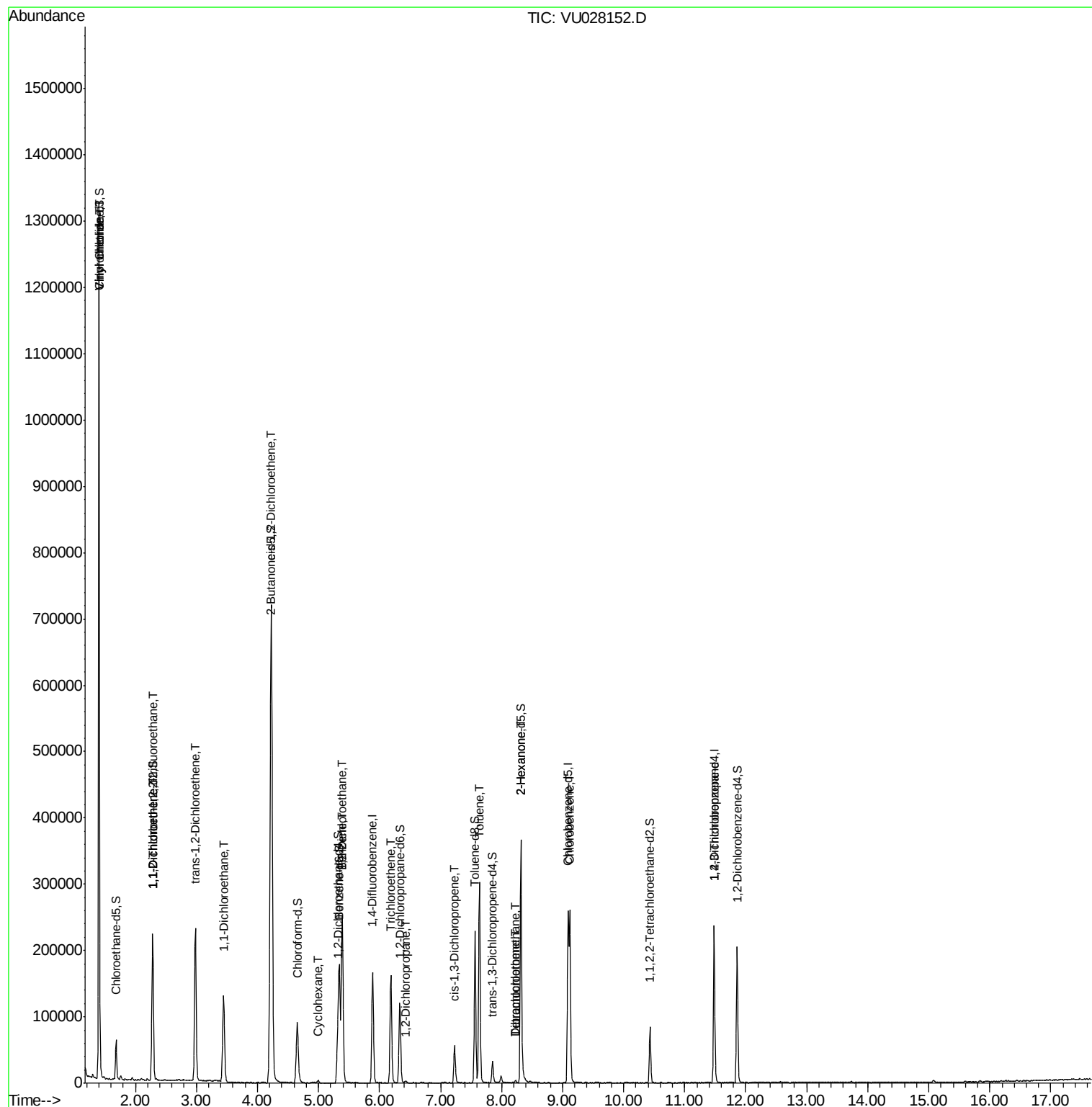
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.12	112	124886	4.929	ug/L	96
59) 1,2,3-Trichloropropane	11.48	75	8575	1.314	ug/L	95

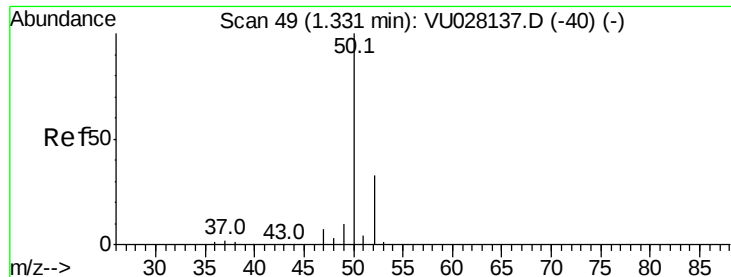
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.374 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.07 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

Instrument :

MSVOA_U

ClientSampleId :

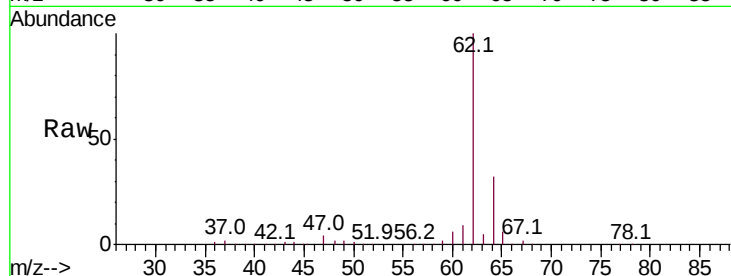
H0FL1MSD

Tot Ion: 50 Resp: 5514

Ion Ratio Lower Upper

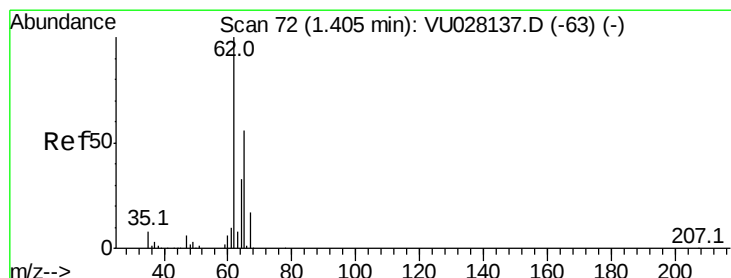
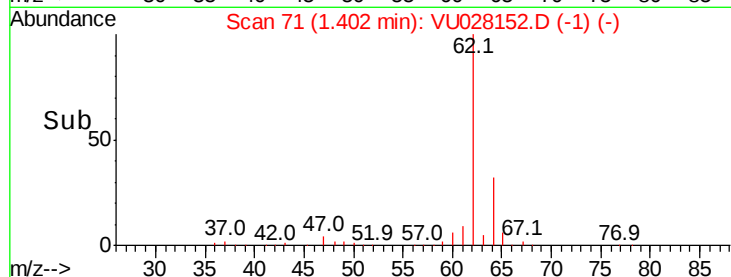
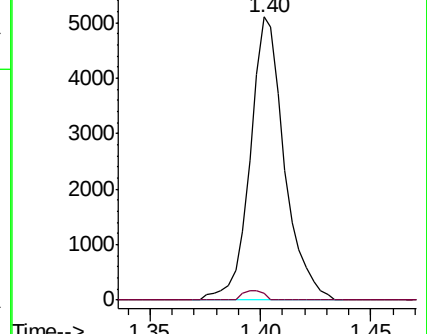
50 100

52 2.4 23.0 42.6#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 58.143 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028152.D

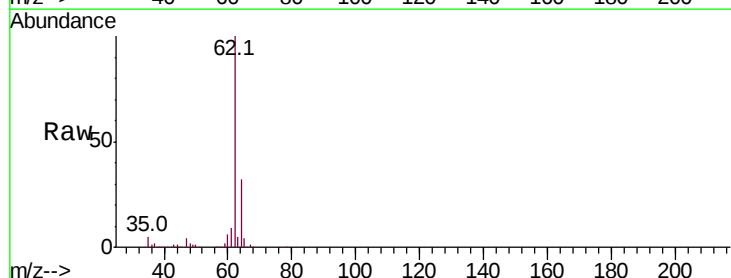
Acq: 15 Nov 2018 04:28

Tgt Ion: 62 Resp: 814188

Ion Ratio Lower Upper

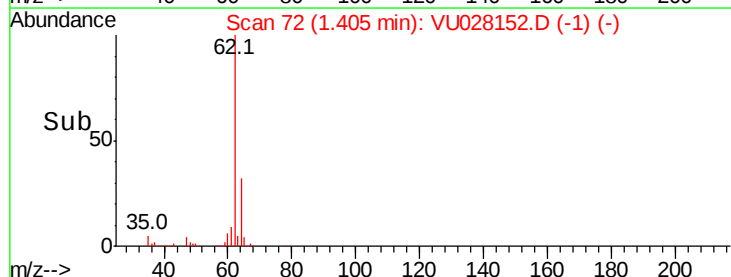
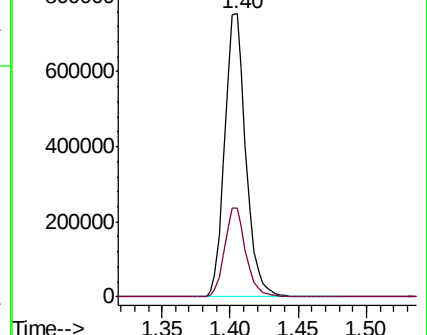
62 100

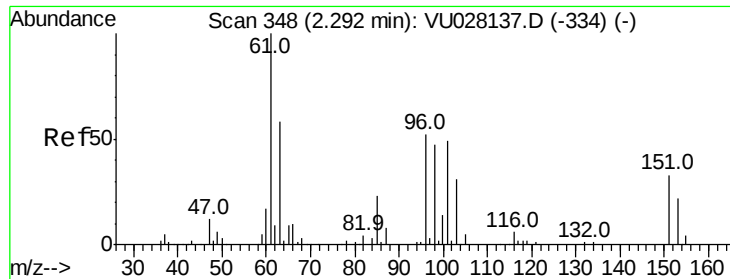
64 31.6 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#10

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

Concen: 0.088 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

Instrument :

MSVOA_U

ClientSampleId :

H0FL1MSD

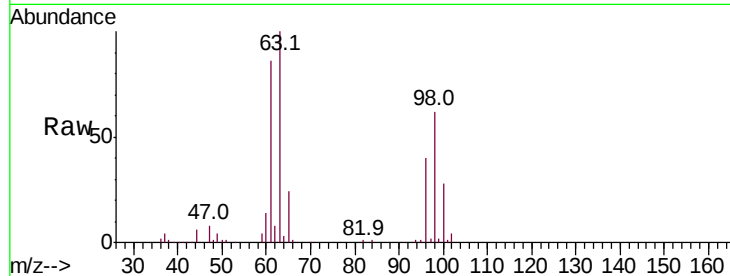
Tot Ion:101 Resp: 754

Ion Ratio Lower Upper

101 100

85 5.4 37.6 56.4#

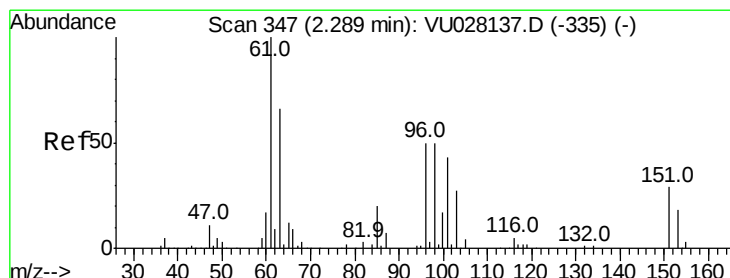
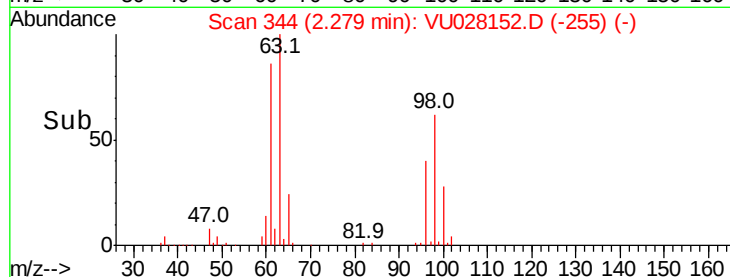
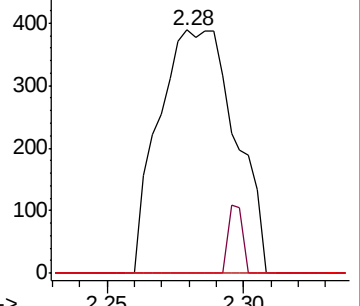
151 0.0 58.2 87.2#



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: 5.225 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

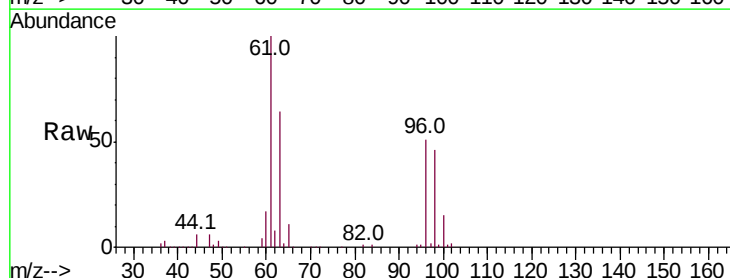
Tgt Ion: 96 Resp: 45420

Ion Ratio Lower Upper

96 100

61 195.3 134.8 250.3

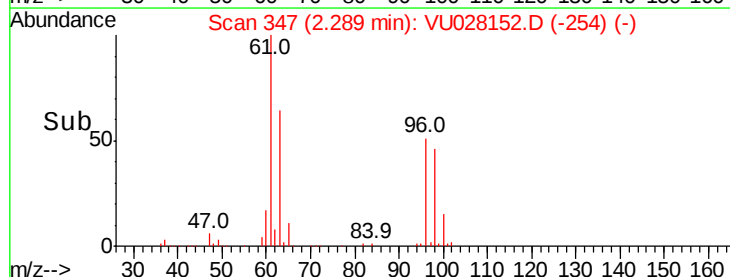
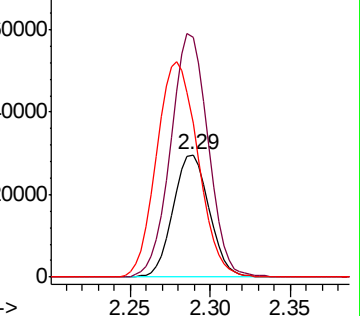
63 125.4 100.1 185.9

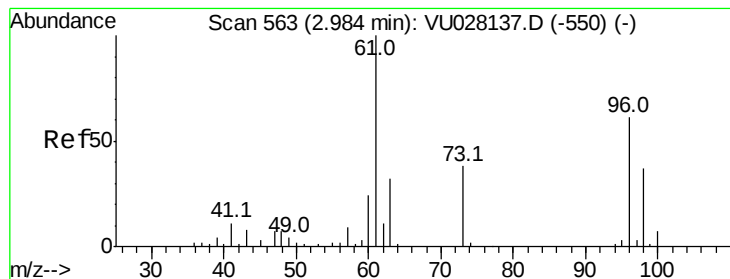


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#18

trans-1,2-Dichloroethene

Concen: 8.338 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

Instrument :

MSVOA_U

ClientSampleId :

H0FL1MSD

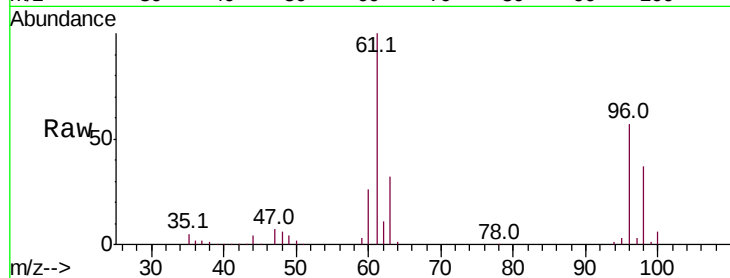
Tot Ion: 96 Resp: 77058

Ion Ratio Lower Upper

96 100

61 174.8 118.5 220.1

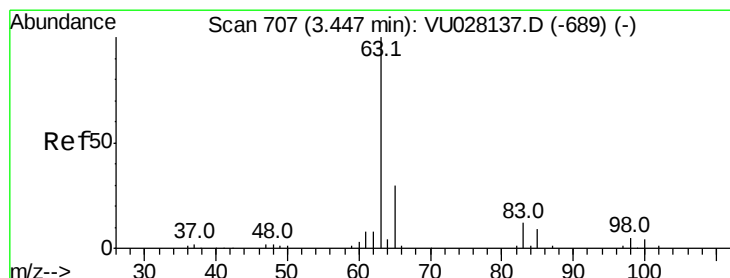
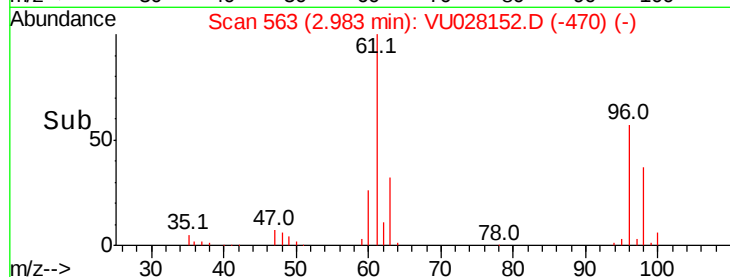
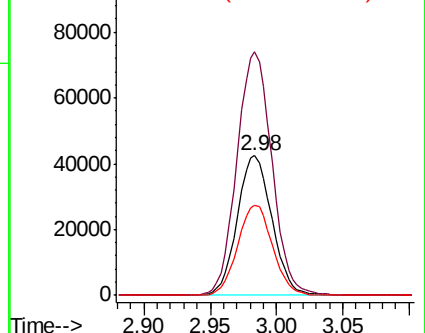
98 64.7 44.9 83.5



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: 7.417 ug/L

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

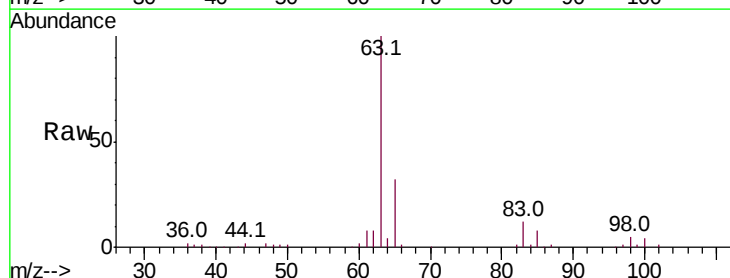
Tgt Ion: 63 Resp: 144158

Ion Ratio Lower Upper

63 100

65 31.7 22.2 41.2

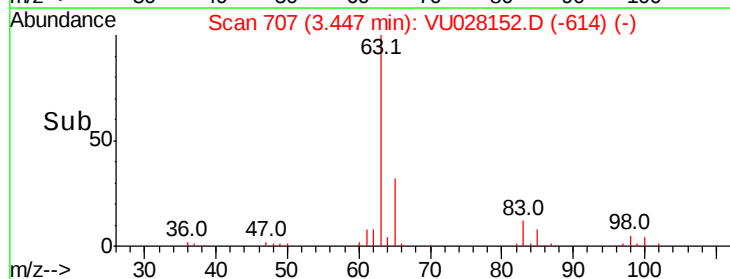
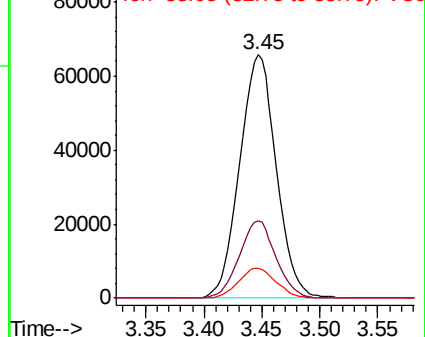
83 12.4 8.9 16.5

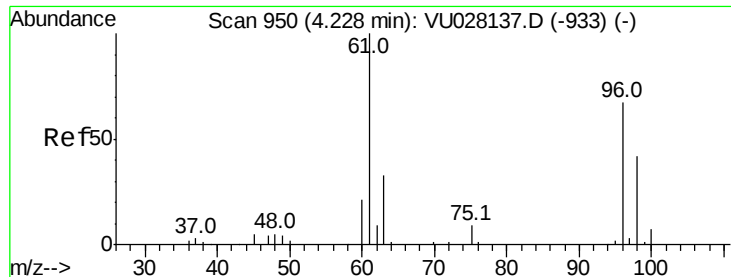


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



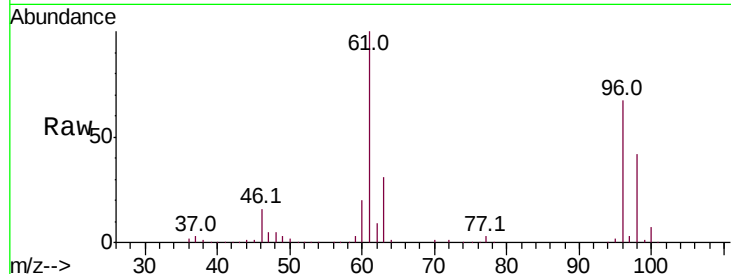


#22

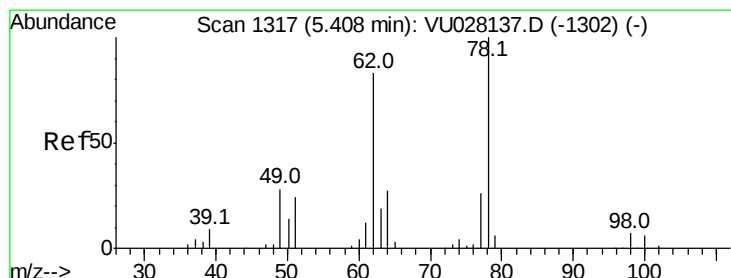
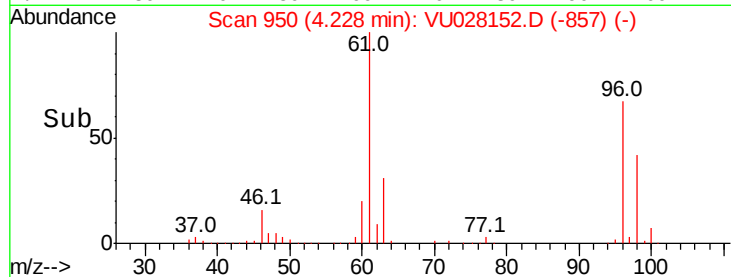
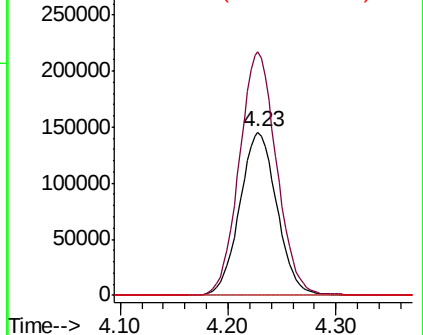
cis-1,2-Dichloroethene
 Concen: 34.224 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU028152.D
 Acq: 15 Nov 2018 04:28

Instrument :
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 H0FL1MSD

Tot Ion	96	Resp	348727
Ion	Ratio	Lower	Upper
96	100		
61	149.4	101.8	189.0
68	0.0	0.0	0.0



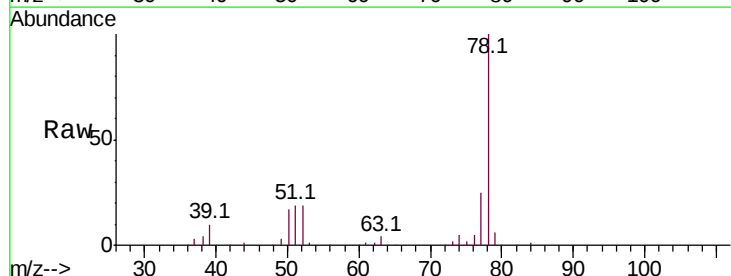
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



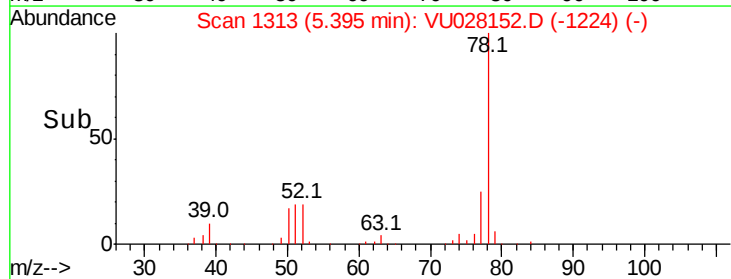
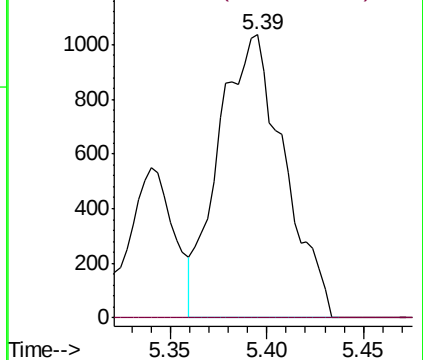
#27

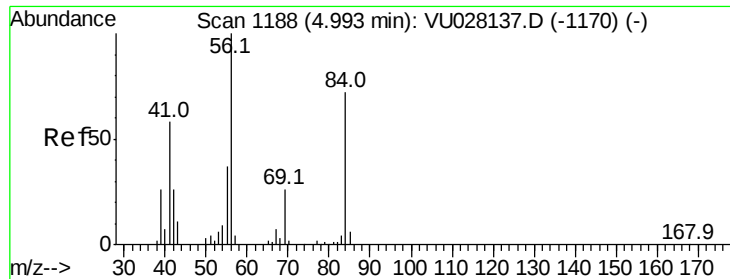
1,2-Dichloroethane
 Concen: 0.213 ug/L
 RT: 5.39 min Scan# 1313
 Delta R.T. -0.01 min
 Lab File: VU028152.D
 Acq: 15 Nov 2018 04:28

Tgt Ion	62	Resp	2444
Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.0	10.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.05 (97.75 to 98.75): VU0

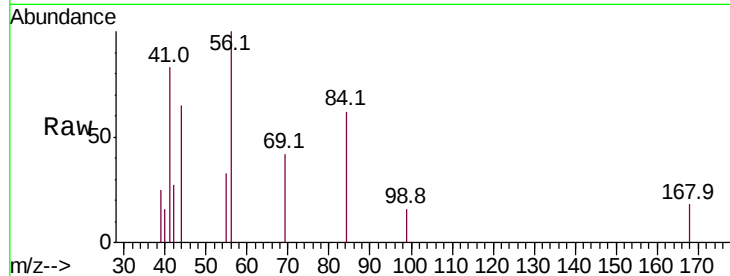




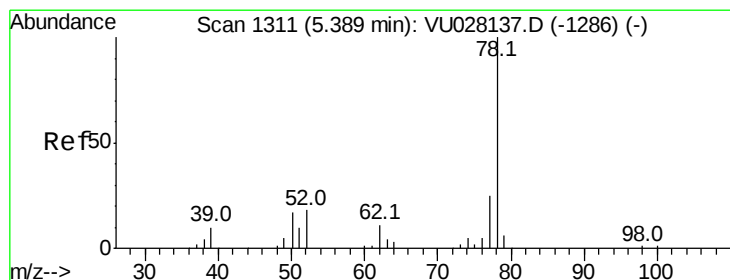
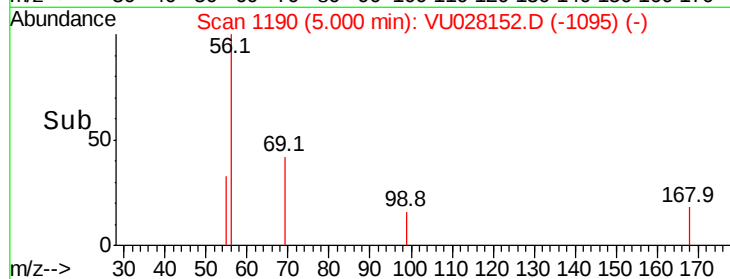
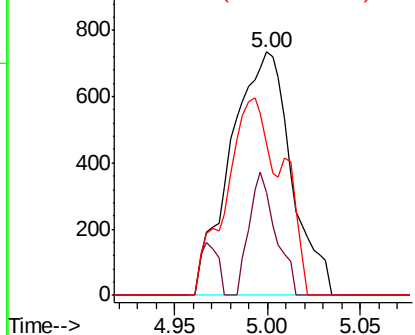
#30
Cyclohexane
Concen: 0.084 ug/L
RT: 5.00 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VU028152.D
Acq: 15 Nov 2018 04:28

Instrument :
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Tot Ion: 56 Resp: 1667
Ion Ratio Lower Upper
56 100
69 22.0 22.6 33.8#
84 60.8 57.7 86.5

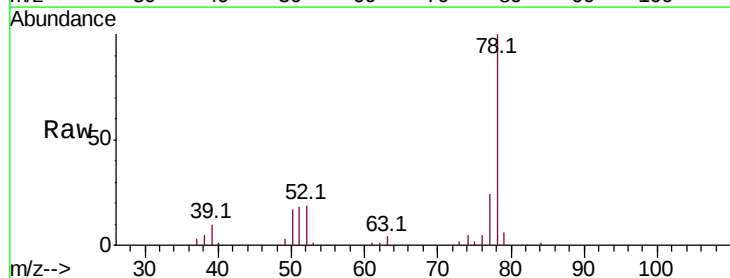


Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

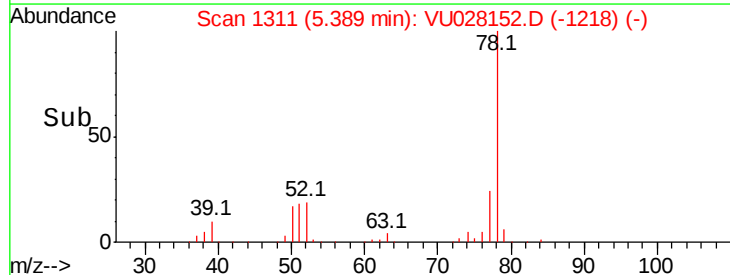
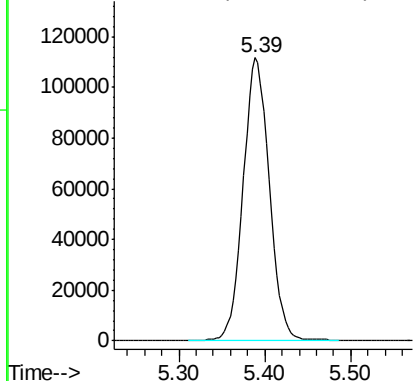


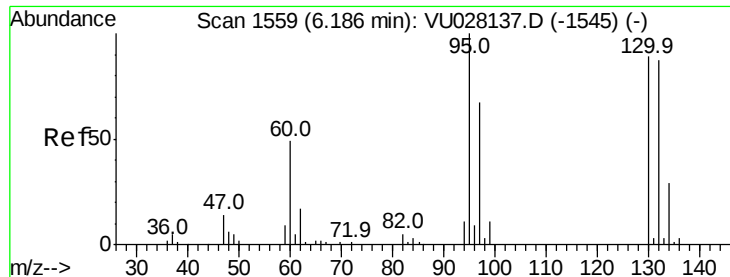
#33
Benzene
Concen: 5.643 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028152.D
Acq: 15 Nov 2018 04:28

Tgt Ion: 78 Resp: 237143



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.512 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

Instrument :

MSVOA_U

ClientSampleId :

H0FL1MSD

Tot Ion: 95 Resp: 57249

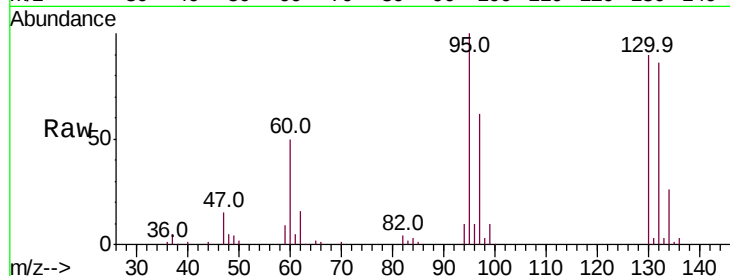
Ion Ratio Lower Upper

95 100

97 62.3 45.3 84.1

132 86.0 63.0 117.0

130 90.2 63.6 118.2

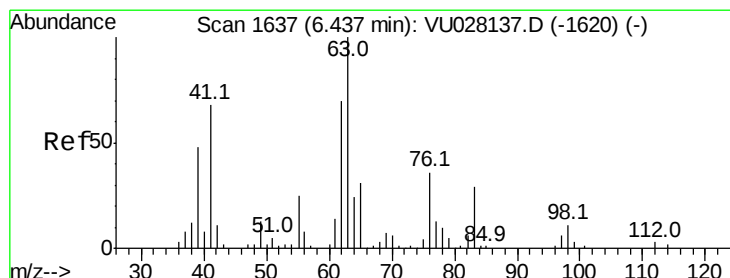
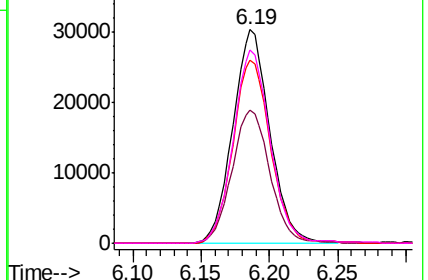
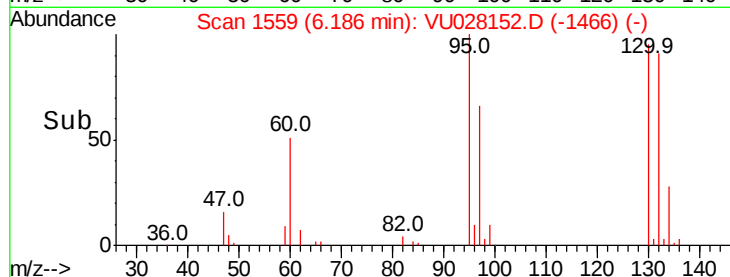


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#37

1,2-Dichloropropane

Concen: 0.098 ug/L

RT: 6.44 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VU028152.D

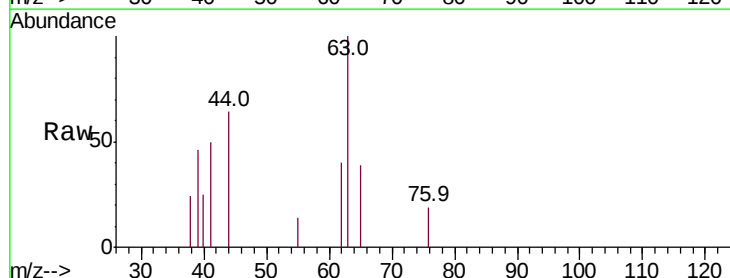
Acq: 15 Nov 2018 04:28

Tgt Ion: 63 Resp: 1134

Ion Ratio Lower Upper

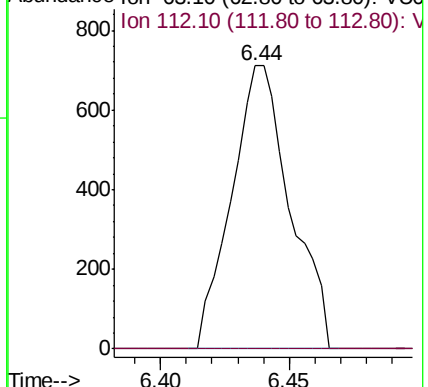
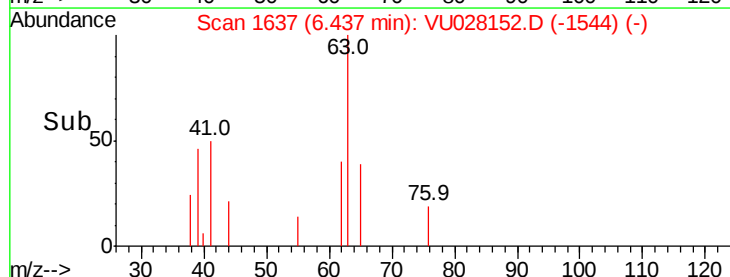
63 100

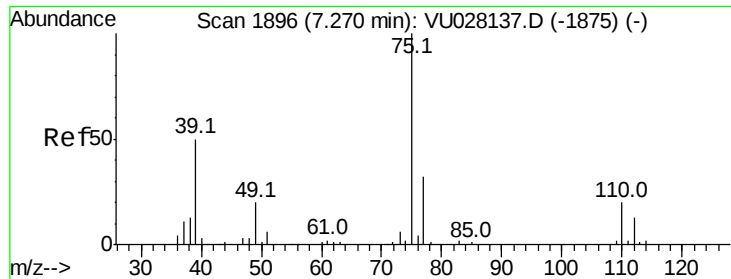
112 0.0 2.2 3.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

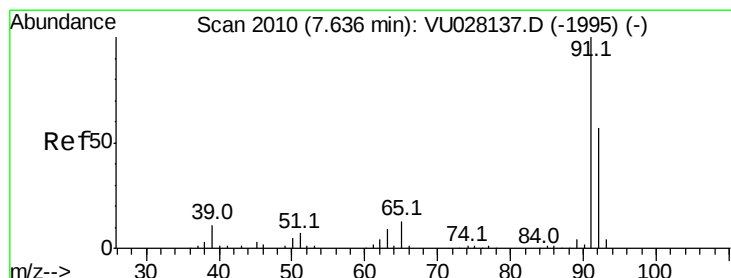
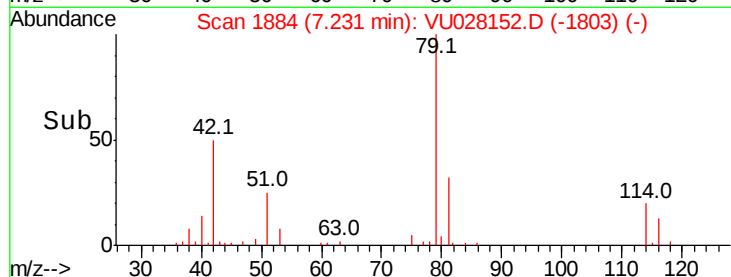
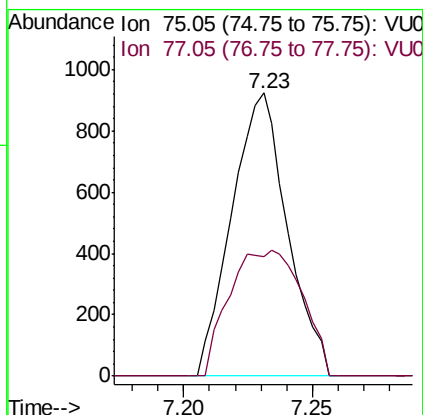
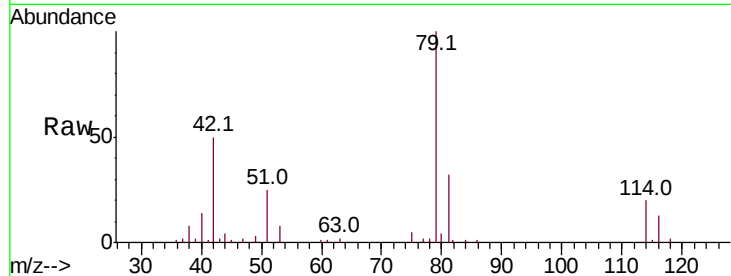




#39
 cis-1,3-Dichloropropene
 Concen: 0.089 ug/L
 RT: 7.23 min Scan# 1884
 Delta R.T. -0.04 min
 Lab File: VU028152.D
 Acq: 15 Nov 2018 04:28

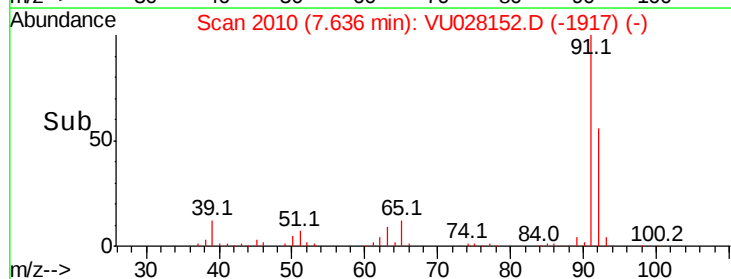
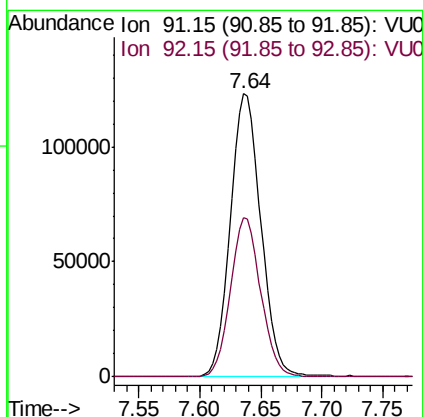
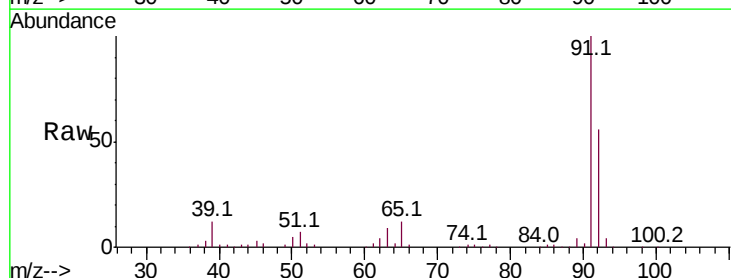
Instrument :
 MSVOA_U
 ClientSampleId :
 H0FL1MSD

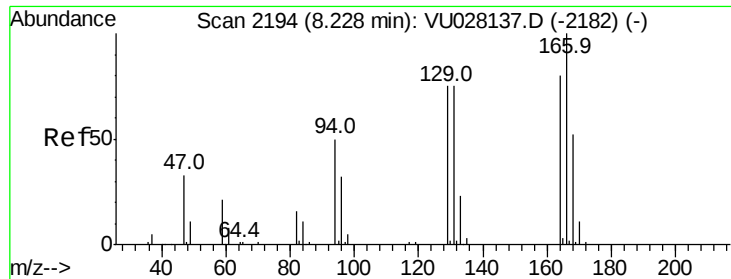
Tot Ion: 75 Resp: 1391
 Ion Ratio Lower Upper
 75 100
 77 42.4 20.9 38.9#



#42
 Toluene
 Concen: 4.975 ug/L
 RT: 7.64 min Scan# 2010
 Delta R.T. -0.00 min
 Lab File: VU028152.D
 Acq: 15 Nov 2018 04:28

Tgt Ion: 91 Resp: 215558
 Ion Ratio Lower Upper
 91 100
 92 56.3 40.7 75.7

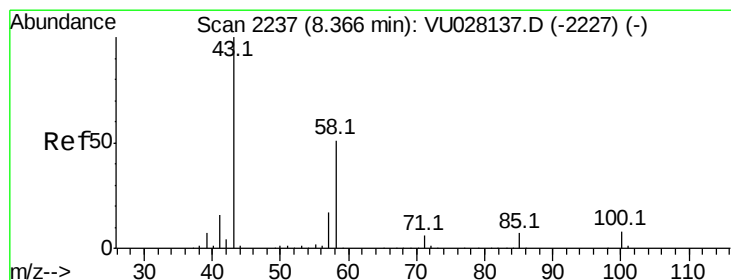
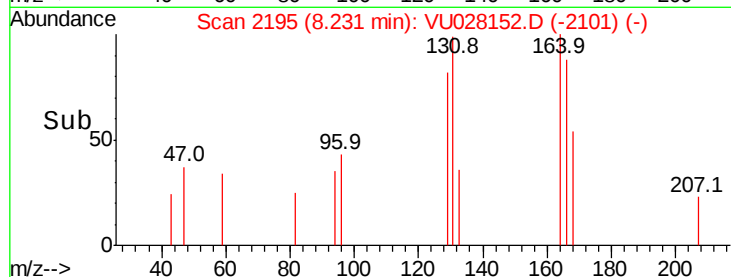
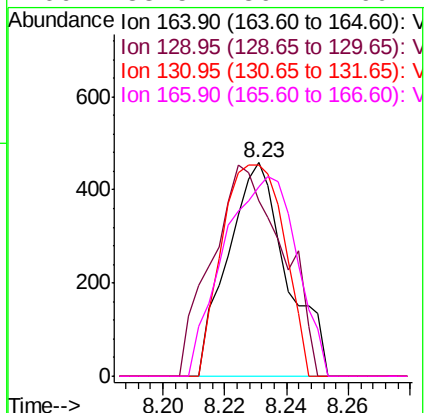
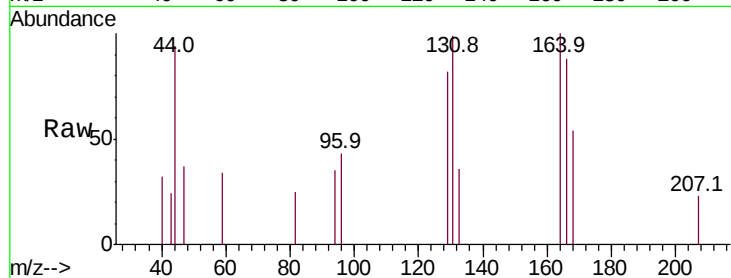




#47
Tetrachloroethene
Concen: 0.072 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028152.D
Acq: 15 Nov 2018 04:28

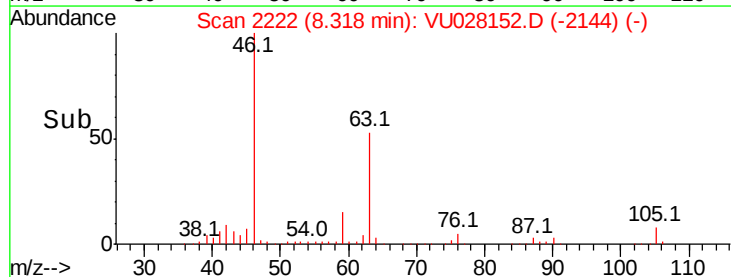
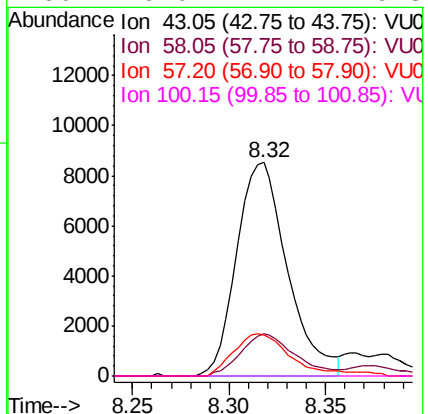
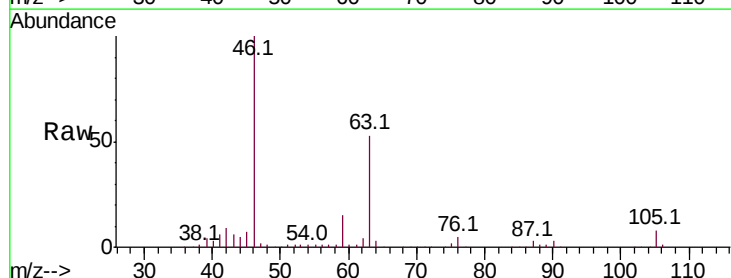
Instrument :
MSVOA_U
ClientSampleId :
H0FL1MSD

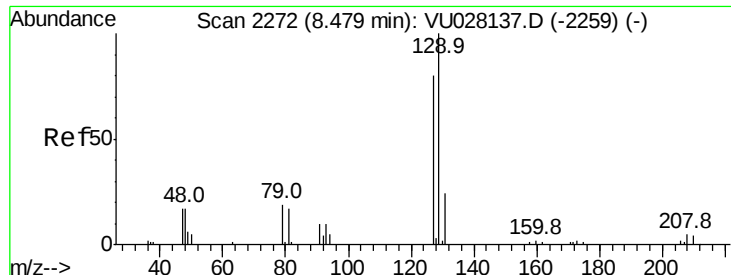
Tot Ion:164 Resp: 607
Ion Ratio Lower Upper
164 100
129 82.1 69.7 129.4
131 98.9 64.0 118.8
166 88.5 86.4 160.4



#48
2-Hexanone
Concen: 2.744 ug/L
RT: 8.32 min Scan# 2222
Delta R.T. -0.05 min
Lab File: VU028152.D
Acq: 15 Nov 2018 04:28

Tgt Ion: 43 Resp: 15625
Ion Ratio Lower Upper
43 100
58 21.1 41.7 62.5#
57 22.6 14.0 21.0#
100 0.0 7.2 10.8#





#49

Dibromochloromethane

Concen: 0.096 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

Instrument :

MSVOA_U

ClientSampleId :

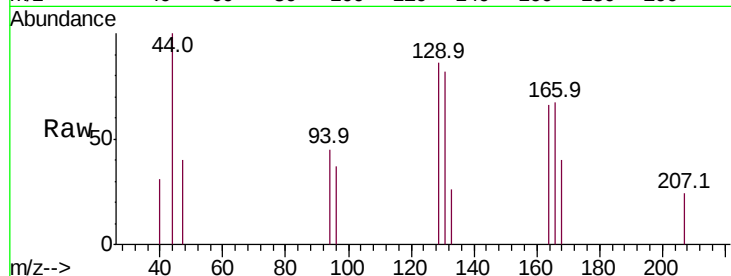
H0FL1MSD

Tot Ion:129 Resp: 717

Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.22

400

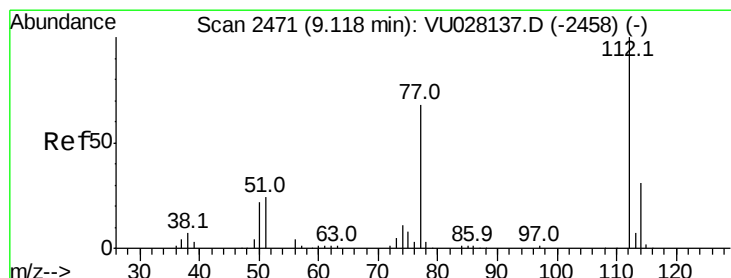
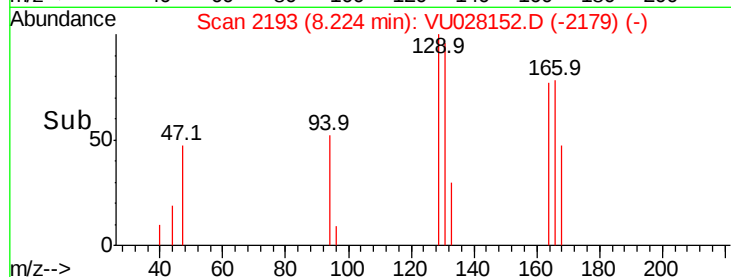
300

200

100

0

Time--> 8.18 8.20 8.22 8.24 8.26



#51

Chlorobenzene

Concen: 4.929 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

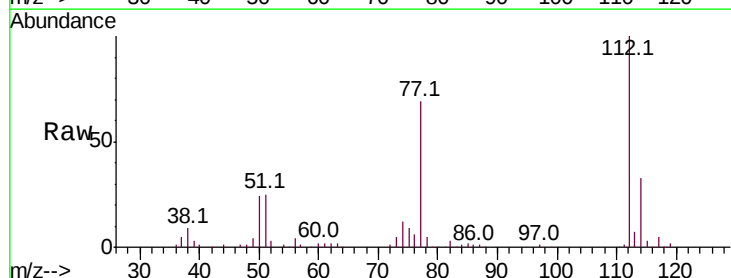
Tgt Ion:112 Resp: 124886

Ion Ratio Lower Upper

112 100

114 32.8 22.5 41.7

77 68.7 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): VU0

100000

80000

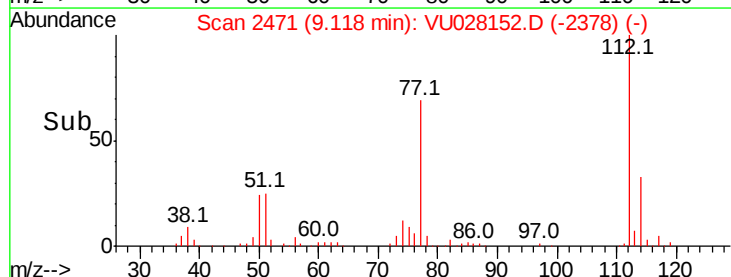
60000

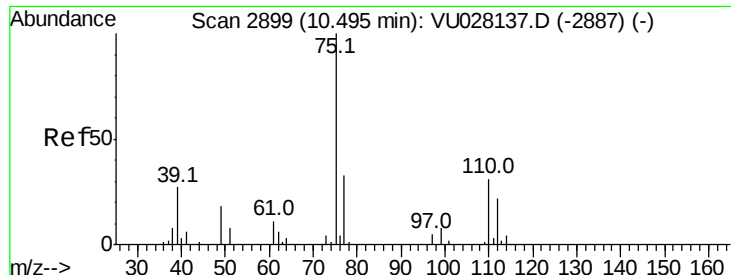
40000

20000

0

Time--> 9.05 9.10 9.15 9.20





#59

1,2,3-Trichloropropane

Concen: 1.314 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028152.D

Acq: 15 Nov 2018 04:28

Instrument :

MSVOA_U

ClientSampleId :

H0FL1MSD

Tot Ion: 75 Resp: 8575

Ion Ratio Lower Upper

75 100

77 34.4 25.4 38.0

