

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU020119\
 Data File : VU029328.D
 Acq On : 01 Feb 2019 11:44
 Operator : JC/SP
 Sample : VSTD00144
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

Quant Time: Feb 01 23:05:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR020119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Feb 01 23:02:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	59862	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	61308	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	30997	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	4677	0.97	ug/L	0.00
7) Chloroethane-d5	1.68	69	4493	0.96	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	12882	0.99	ug/L	0.00
20) 2-Butanone-d5	4.21	46	14368	9.48	ug/L	0.01
24) Chloroform-d	4.65	84	10465	0.95	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	6397	0.93	ug/L	0.00
32) Benzene-d6	5.34	84	16662	0.91	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	5535	0.96	ug/L	0.00
41) Toluene-d8	7.56	98	15503	0.89	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.86	79	2460	0.90	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	9834	8.43	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	4772	0.96	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	6286	0.95	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	8303	1.049 ug/L	98
3) Chloromethane	1.33	50	6017	1.020 ug/L	97
5) Vinyl chloride	1.40	62	6425	1.024 ug/L	97
6) Bromomethane	1.63	94	4409	1.062 ug/L	98
8) Chloroethane	1.70	64	4629	0.983 ug/L	96
9) Trichlorofluoromethane	1.89	101	11832	1.024 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	5669	1.038 ug/L	97
12) 1,1-Dichloroethene	2.29	96	4844	1.043 ug/L	97
13) Acetone	2.35	43	15035	10.750 ug/L	100
14) Carbon disulfide	2.48	76	17926	1.024 ug/L	96
15) Methyl Acetate	2.63	43	3281	0.996 ug/L	96
16) Methylene chloride	2.70	84	6118	1.092 ug/L	91
17) Methyl tert-butyl Ether	3.01	73	15537	1.050 ug/L	99
18) trans-1,2-Dichloroethene	2.98	96	5331	1.026 ug/L	92
19) 1,1-Dichloroethane	3.44	63	11226	1.003 ug/L	98
21) 2-Butanone	4.30	43	15704	10.257 ug/L	98
22) cis-1,2-Dichloroethene	4.23	96	4894	0.974 ug/L	93
23) Bromochloromethane	4.54	128	2374	1.056 ug/L	92
25) Chloroform	4.68	83	11336	1.071 ug/L	99
27) 1,2-Dichloroethane	5.41	62	8478	1.053 ug/L	100
29) 1,1,1-Trichloroethane	4.91	97	9749	0.976 ug/L	97
30) Cyclohexane	4.99	56	7141	0.909 ug/L	99
31) Carbon tetrachloride	5.14	117	8619	0.984 ug/L	100
33) Benzene	5.39	78	19622	0.993 ug/L	100
34) Trichloroethene	6.18	95	5339	0.996 ug/L	92
35) Methylcyclohexane	6.41	83	7015	0.892 ug/L	95
37) 1,2-Dichloropropane	6.43	63	5358	1.002 ug/L	# 90
38) Bromodichloromethane	6.76	83	8081	1.046 ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	7314	0.939 ug/L	95
40) 4-Methyl-2-pentanone	7.46	43	35065	9.487 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

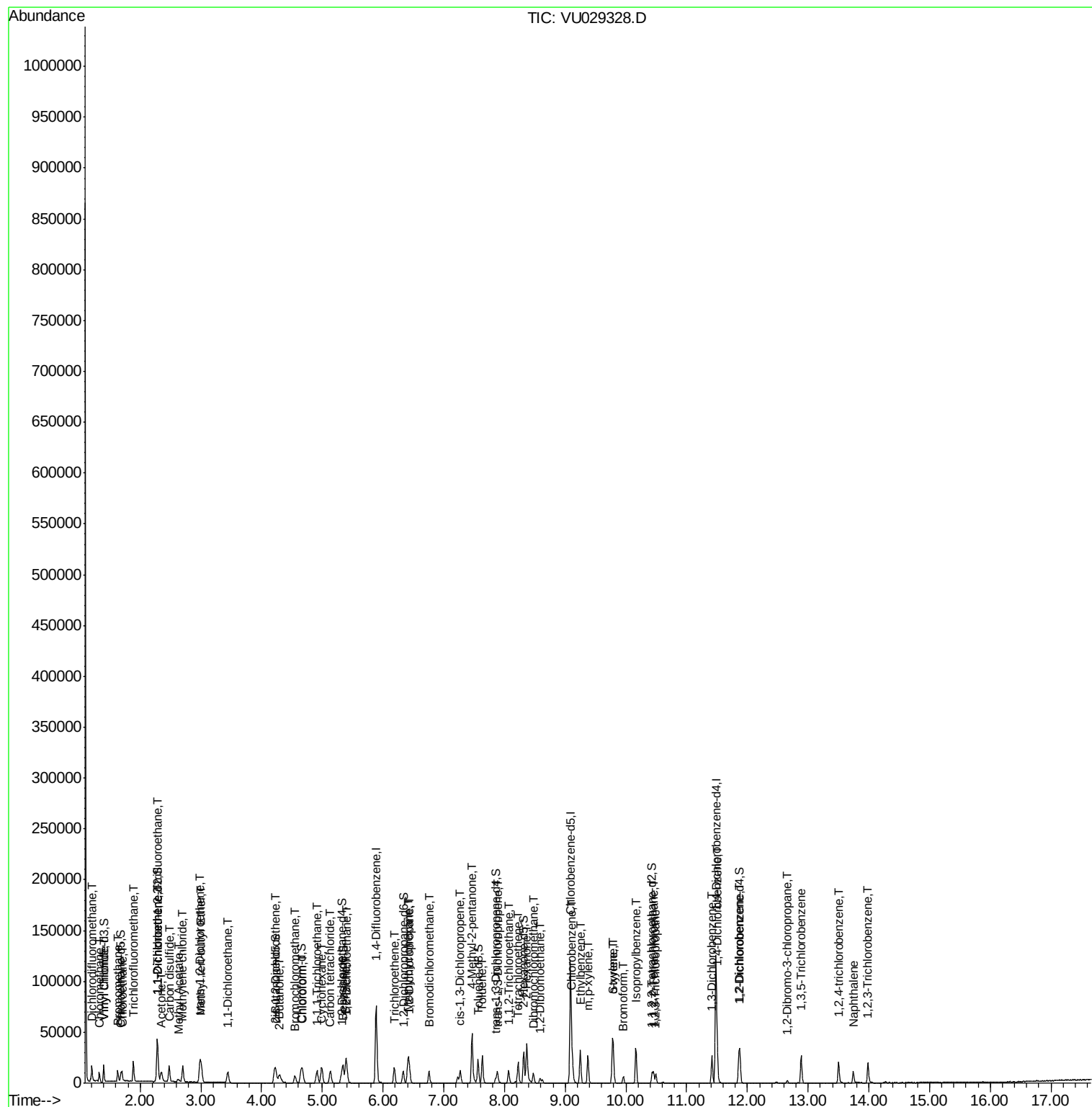
42) Toluene	7.64	91	19640	0.942	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	6561	0.931	ug/L	90
45) 1,1,2-Trichloroethane	8.07	97	3846	1.037	ug/L	90
47) Tetrachloroethene	8.22	164	4187	0.944	ug/L	95
48) 2-Hexanone	8.37	43	26530	9.580	ug/L	95
49) Dibromochloromethane	8.48	129	4970	1.000	ug/L	97
50) 1,2-Dibromoethane	8.59	107	3650	1.039	ug/L #	86
51) Chlorobenzene	9.12	112	13569	1.002	ug/L	95
52) Ethylbenzene	9.25	91	21623	0.934	ug/L	95
53) m,p-xylene	9.38	106	7806	0.896	ug/L	92
54) o-xylene	9.78	106	7747	0.928	ug/L	90
55) Styrene	9.79	104	12632	0.881	ug/L	98
56) Isopropylbenzene	10.16	105	20470	0.901	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	4832	1.009	ug/L	94
59) 1,2,3-Trichloropropane	10.49	75	4027	1.057	ug/L	98
61) Bromoform	9.95	173	2935	1.030	ug/L	96
62) 1,3-Dichlorobenzene	11.42	146	10799	1.018	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	11385	1.028	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	10197	0.983	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.66	75	912	1.010	ug/L #	85
67) 1,3,5-Trichlorobenzene	12.88	180	8632	0.967	ug/L	96
68) 1,2,4-trichlorobenzene	13.50	180	7284	0.955	ug/L	91
69) Naphthalene	13.74	128	10254	0.834	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.99	180	7246	0.970	ug/L	91

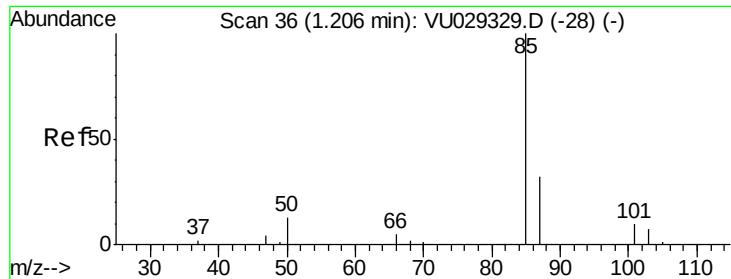
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.049 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

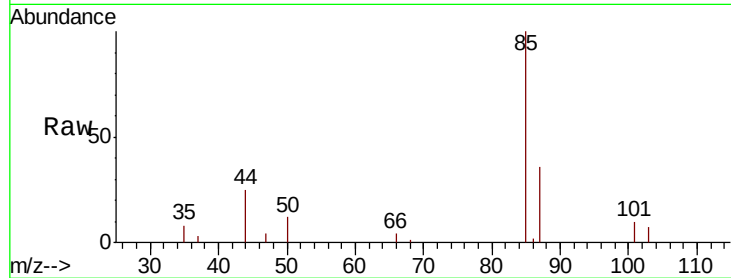
VSTD00144

Tgt Ion: 85 Resp: 8303

Ion Ratio Lower Upper

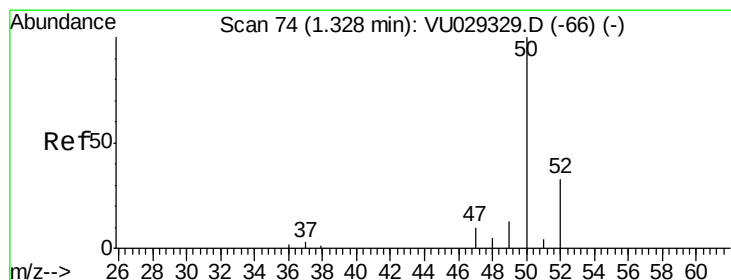
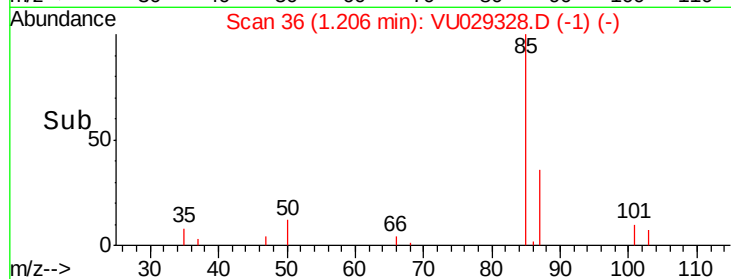
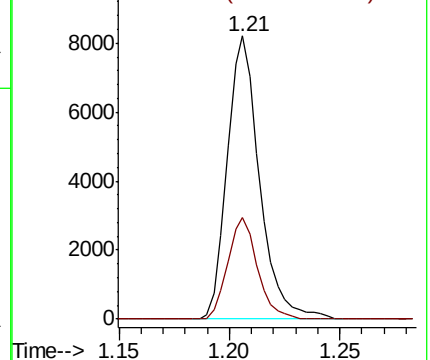
85 100

87 32.9 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 1.020 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029328.D

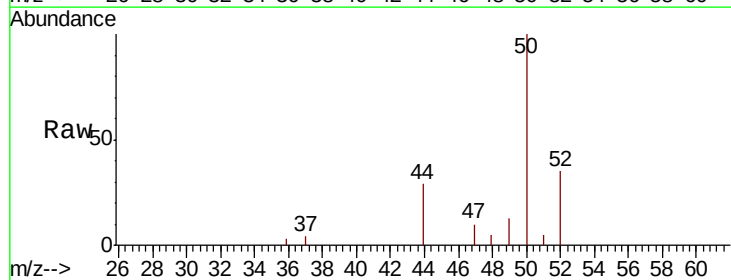
Acq: 01 Feb 2019 11:44

Tgt Ion: 50 Resp: 6017

Ion Ratio Lower Upper

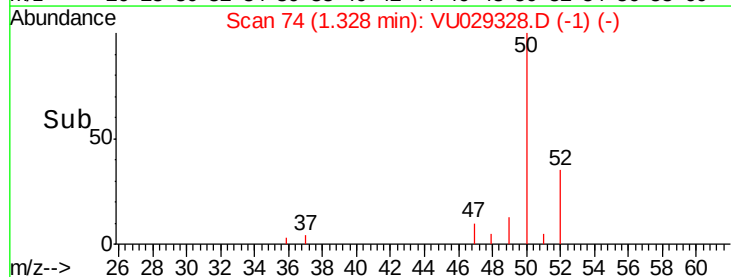
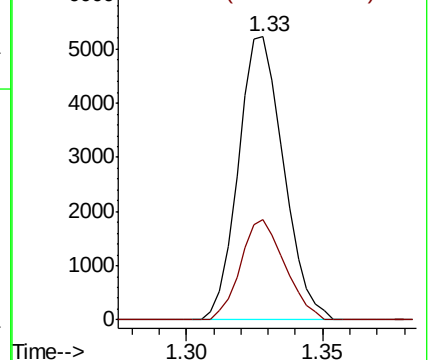
50 100

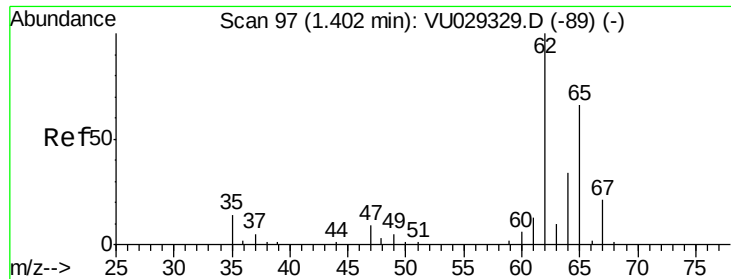
52 35.3 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 1.024 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

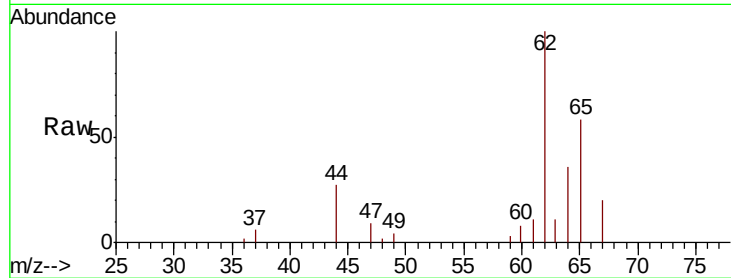
VSTD00144

Tgt Ion: 62 Resp: 6425

Ion Ratio Lower Upper

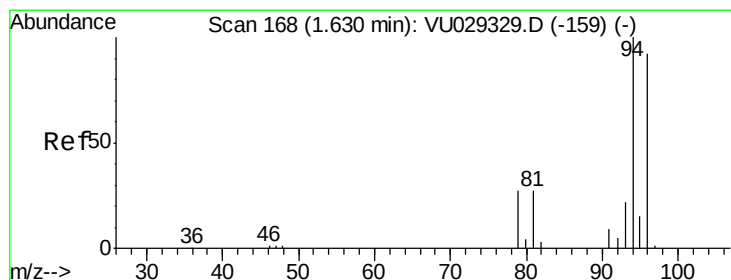
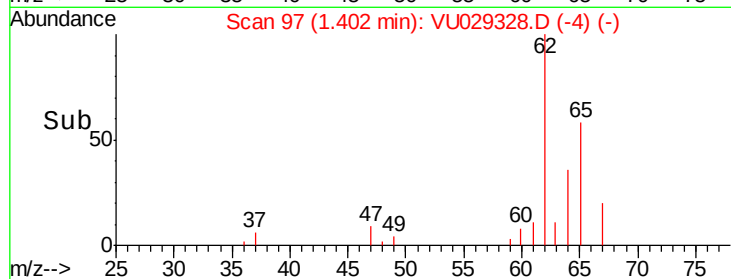
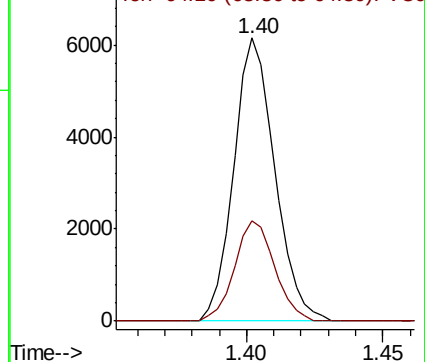
62 100

64 35.6 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 1.062 ug/L

RT: 1.63 min Scan# 169

Delta R.T. 0.00 min

Lab File: VU029328.D

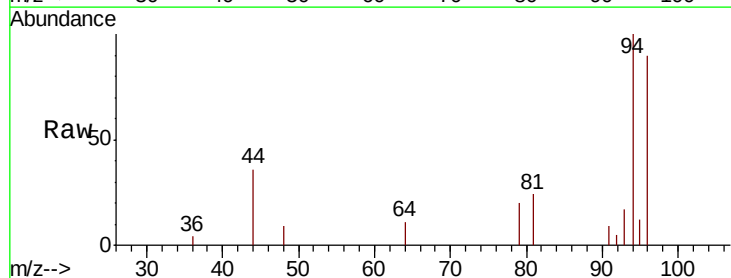
Acq: 01 Feb 2019 11:44

Tgt Ion: 94 Resp: 4409

Ion Ratio Lower Upper

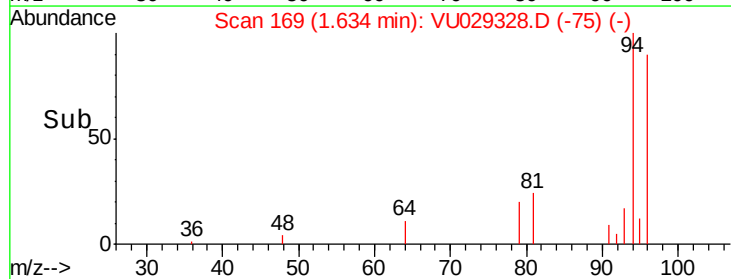
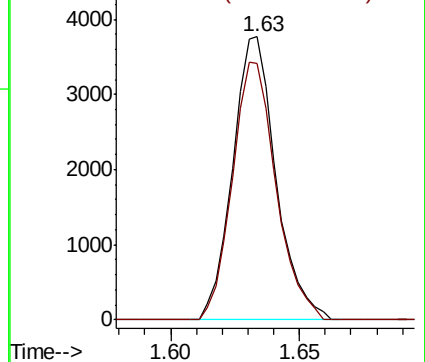
94 100

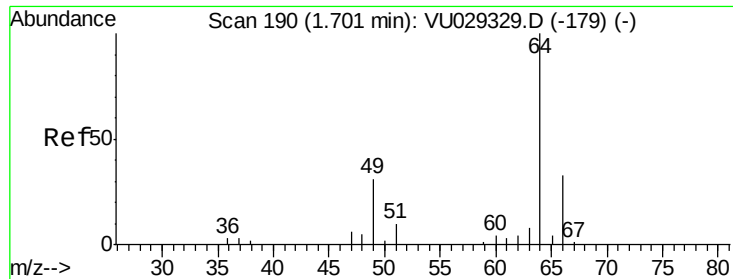
96 90.5 64.5 119.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.983 ug/L

RT: 1.70 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

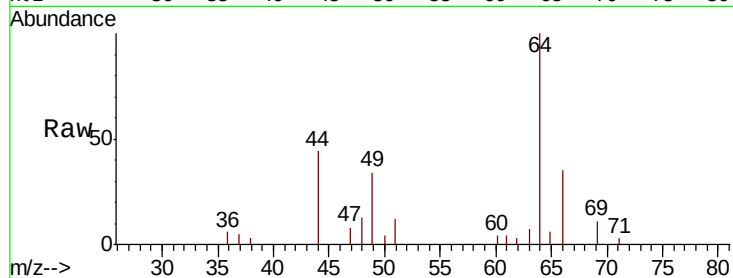
VSTD00144

Tgt Ion: 64 Resp: 4629

Ion Ratio Lower Upper

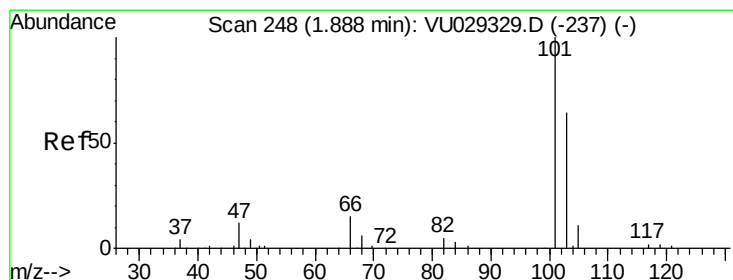
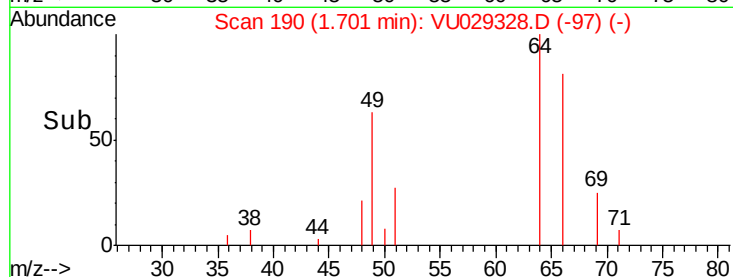
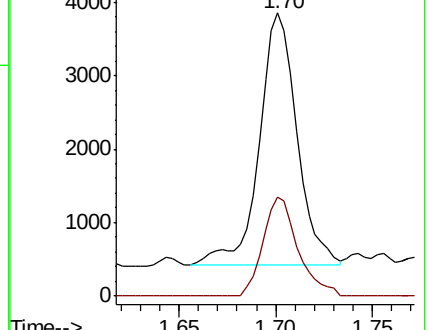
64 100

66 35.0 22.7 42.3



Abundance Ion 64.10 (63.80 to 64.80): VU029329.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU029329.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 1.024 ug/L

RT: 1.89 min Scan# 248

Delta R.T. 0.00 min

Lab File: VU029328.D

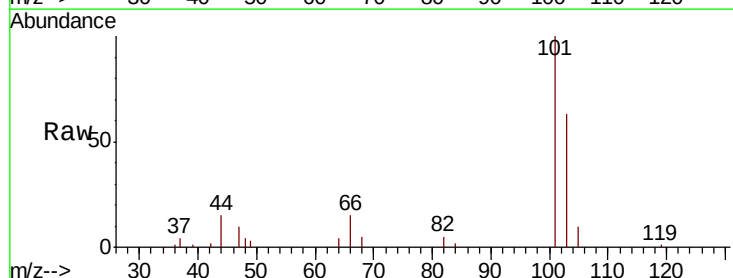
Acq: 01 Feb 2019 11:44

Tgt Ion: 101 Resp: 11832

Ion Ratio Lower Upper

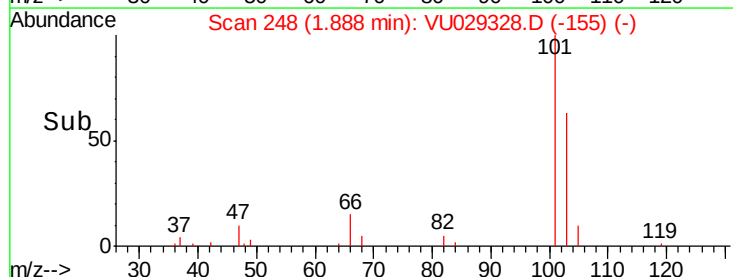
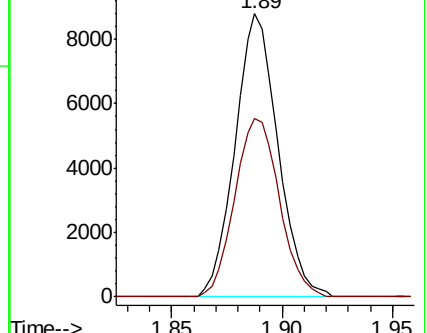
101 100

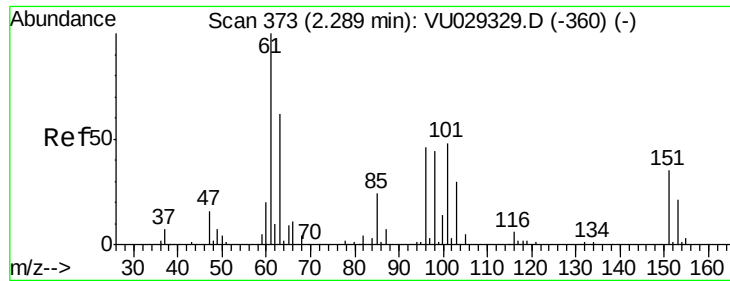
103 65.8 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU029329.D (-237) (-)

Ion 103.00 (102.70 to 103.70): VU029329.D (-237) (-)





#10

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

Concen: 1.038 ug/L

RT: 2.29 min Scan# 373

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD00144

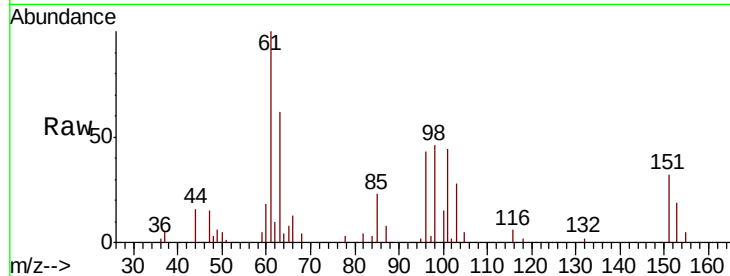
Tgt Ion: 101 Resp: 5669

Ion Ratio Lower Upper

101 100

85 46.8 39.6 59.4

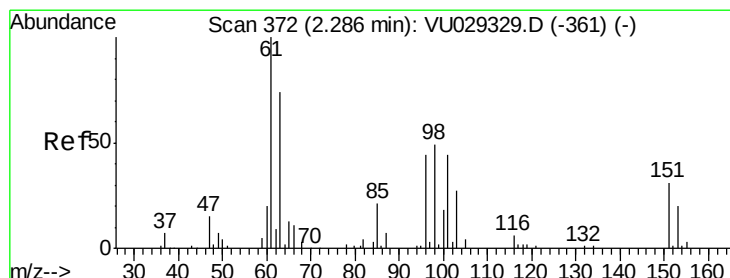
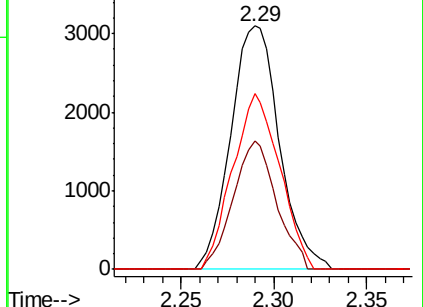
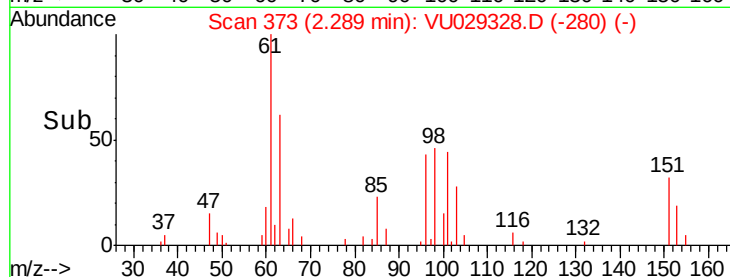
151 69.4 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.043 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

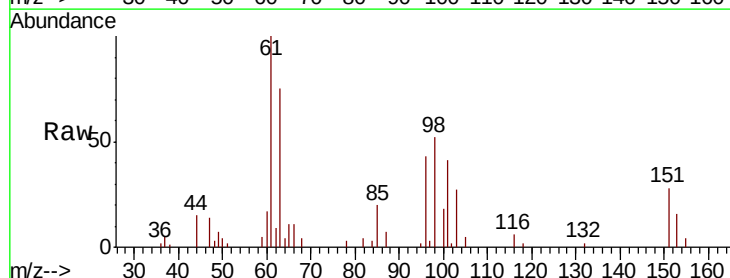
Tgt Ion: 96 Resp: 4844

Ion Ratio Lower Upper

96 100

61 234.2 159.5 296.1

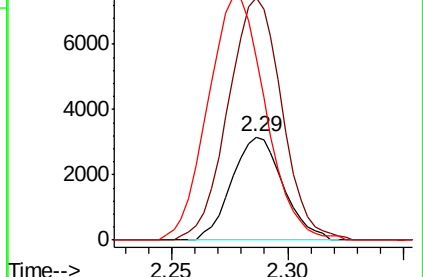
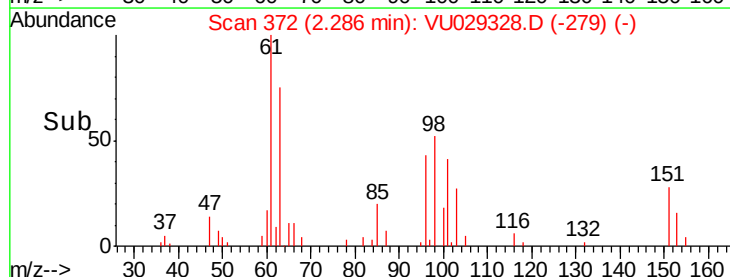
63 176.3 124.3 230.8

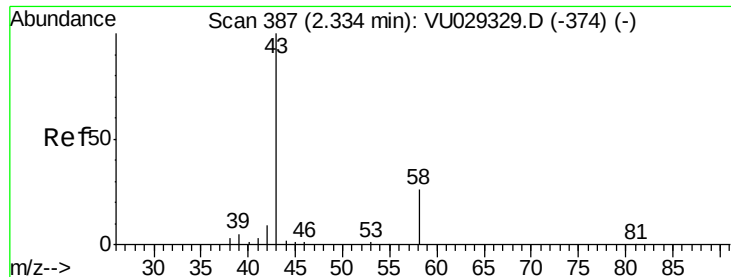


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 10.750 ug/L

RT: 2.35 min Scan# 391

Delta R.T. 0.01 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

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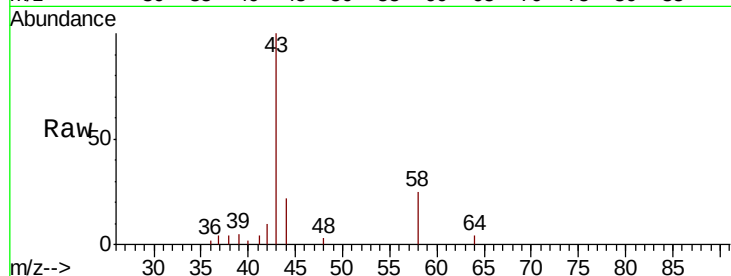
VSTD00144

Tgt Ion: 43 Resp: 15035

Ion Ratio Lower Upper

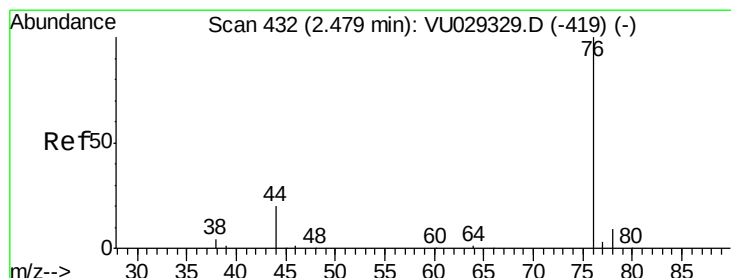
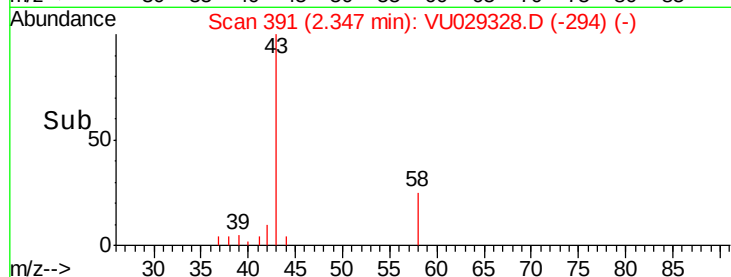
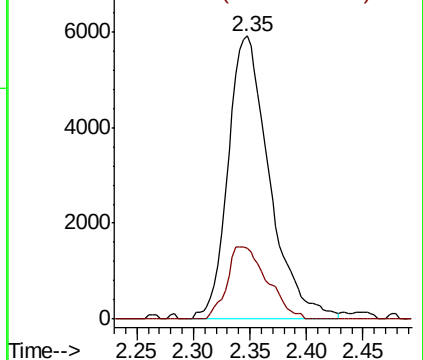
43 100

58 24.8 0.0 50.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 1.024 ug/L

RT: 2.48 min Scan# 432

Delta R.T. 0.00 min

Lab File: VU029328.D

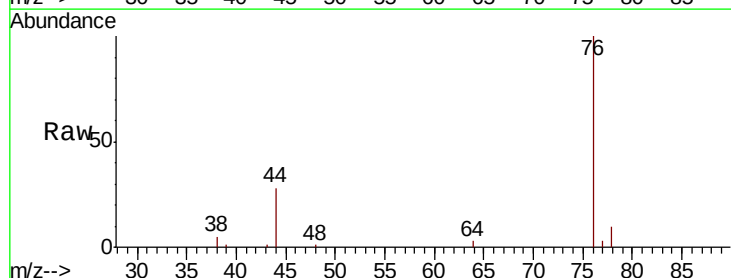
Acq: 01 Feb 2019 11:44

Tgt Ion: 76 Resp: 17926

Ion Ratio Lower Upper

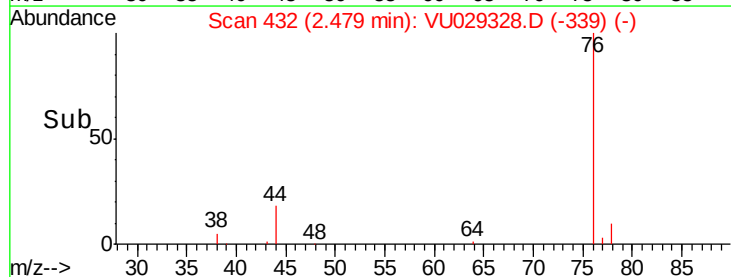
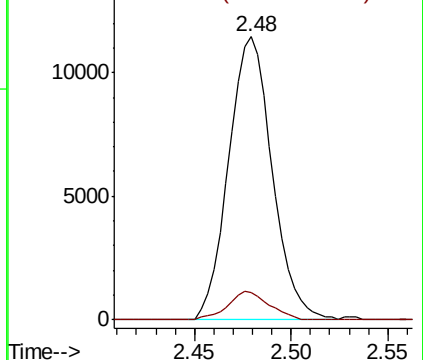
76 100

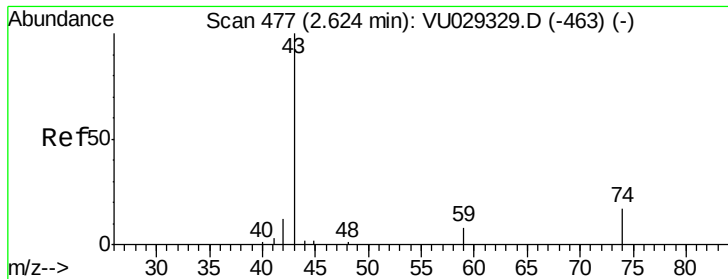
78 9.9 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 0.996 ug/L

RT: 2.63 min Scan# 478

Delta R.T. 0.00 min

Lab File: VU029328.D

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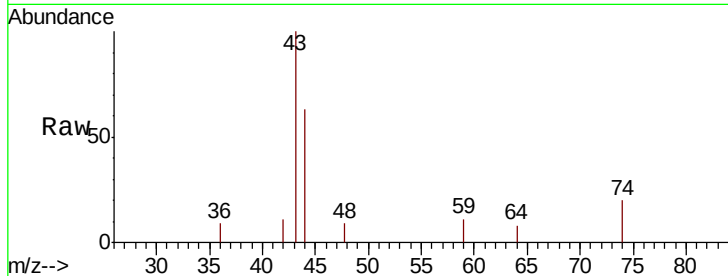
VSTD00144

Tgt Ion: 43 Resp: 3281

Ion Ratio Lower Upper

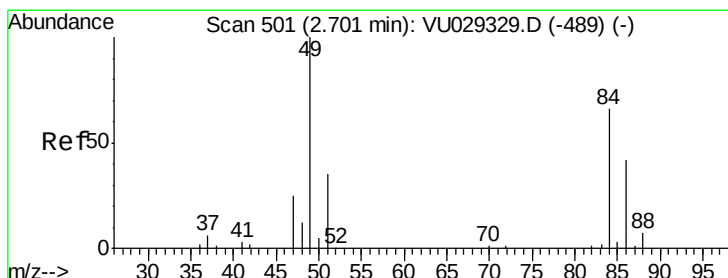
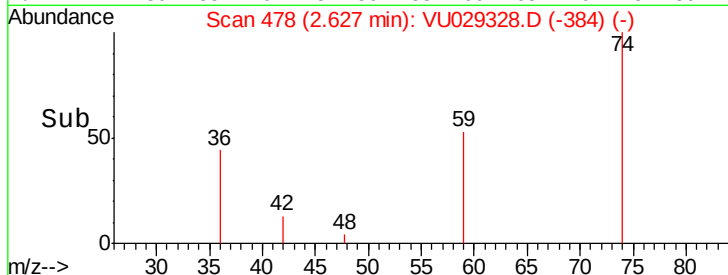
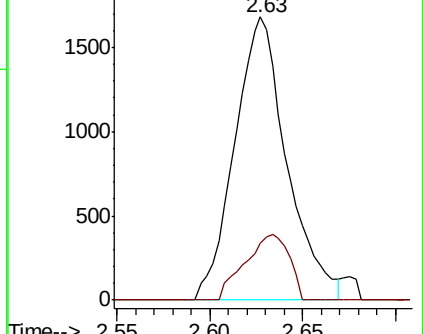
43 100

74 19.6 14.2 21.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 1.092 ug/L

RT: 2.70 min Scan# 501

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

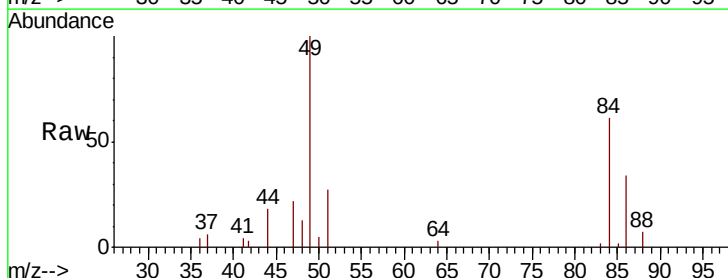
Tgt Ion: 84 Resp: 6118

Ion Ratio Lower Upper

84 100

86 55.8 44.3 82.3

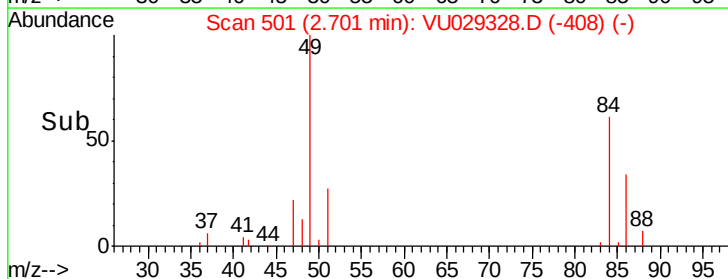
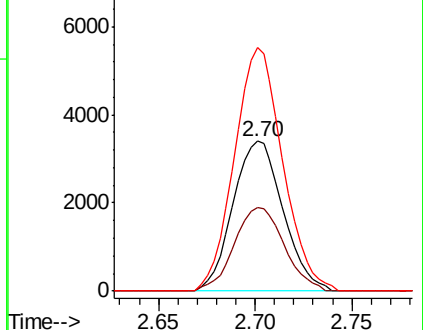
49 162.6 106.1 197.1

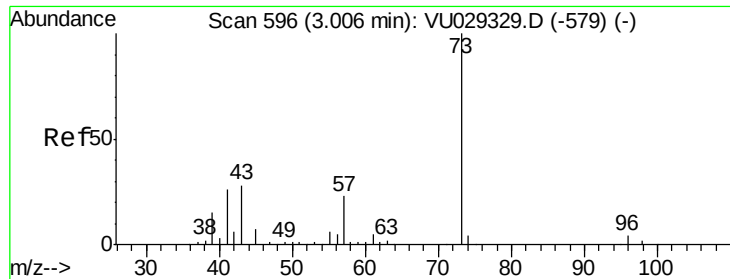


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

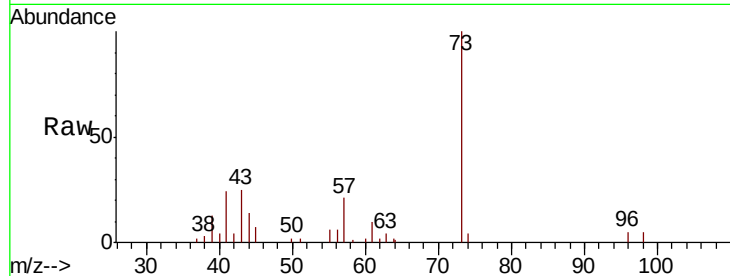




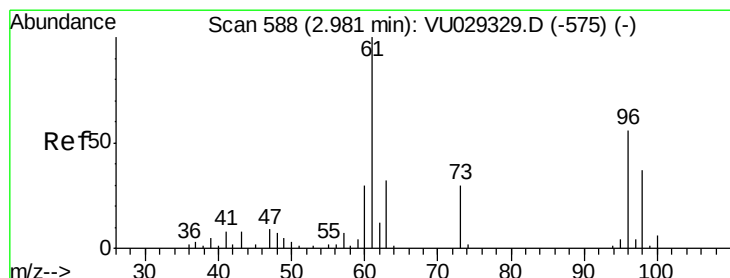
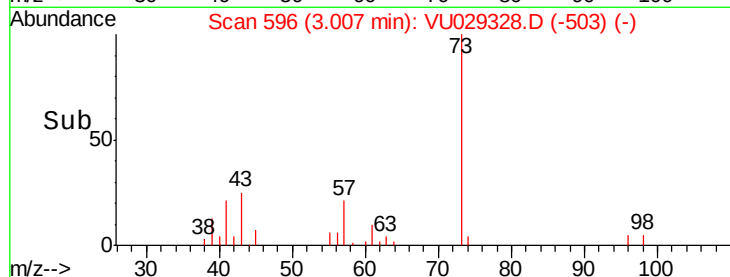
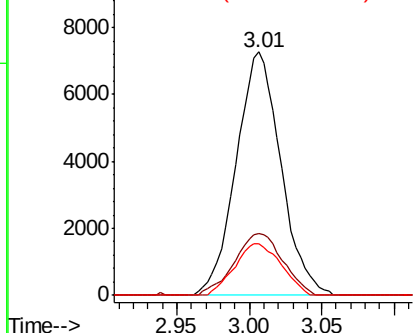
#17
Methyl tert-butyl Ether
Concen: 1.050 ug/L
RT: 3.01 min Scan# 596
Delta R.T. 0.00 min
Lab File: VU029328.D
Acq: 01 Feb 2019 11:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD00144

Tgt Ion: 73 Resp: 15537
Ion Ratio Lower Upper
73 100
43 27.5 21.9 32.9
57 22.1 18.2 27.2

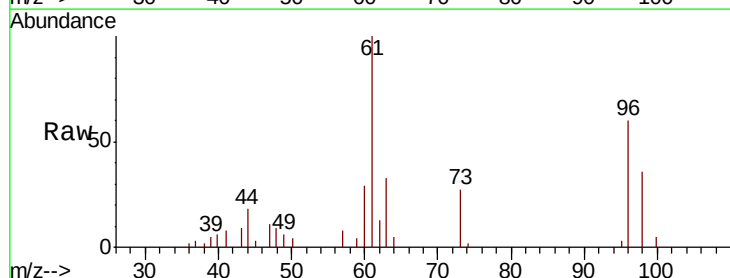


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

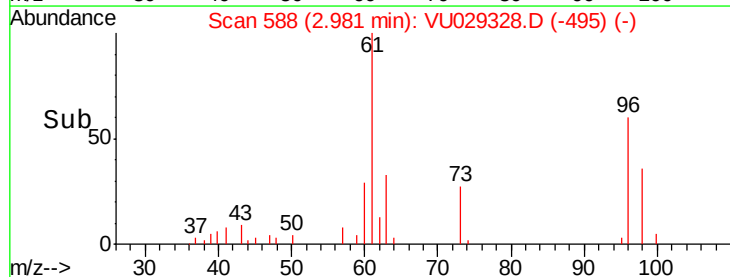
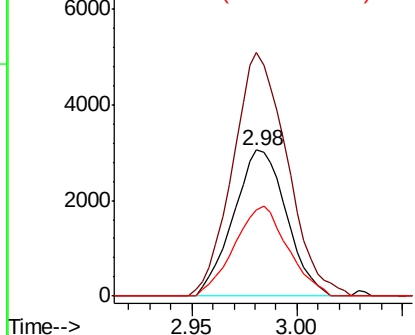


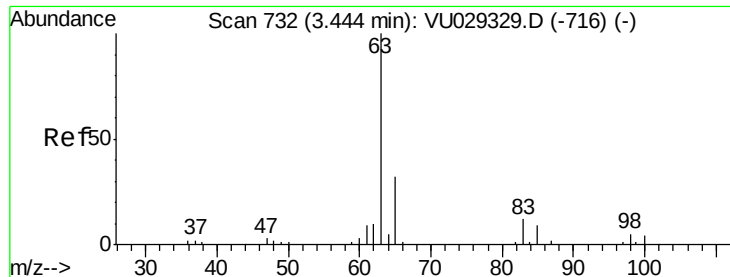
#18
trans-1,2-Dichloroethene
Concen: 1.026 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU029328.D
Acq: 01 Feb 2019 11:44

Tgt Ion: 96 Resp: 5331
Ion Ratio Lower Upper
96 100
61 166.5 124.3 230.9
98 59.1 45.9 85.3



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

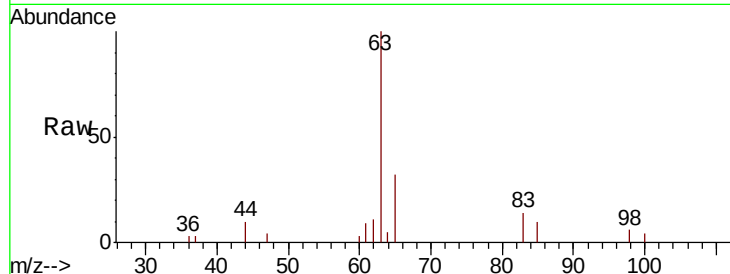




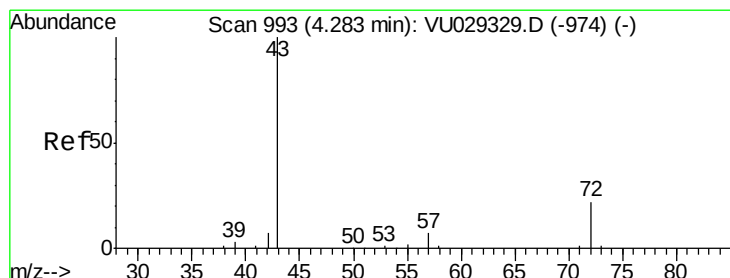
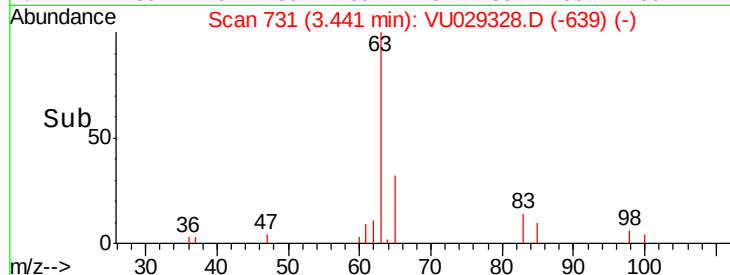
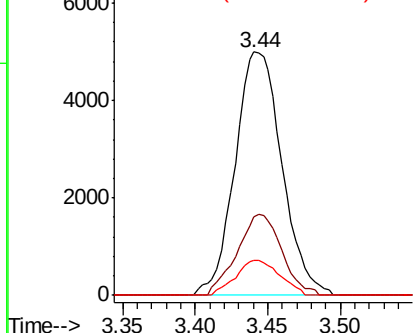
#19
 1,1-Dichloroethane
 Concen: 1.003 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

Tgt Ion: 63 Resp: 11226
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.5 41.7
 83 14.5 8.7 16.1

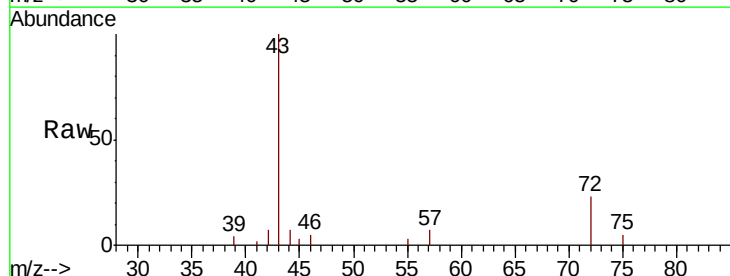


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

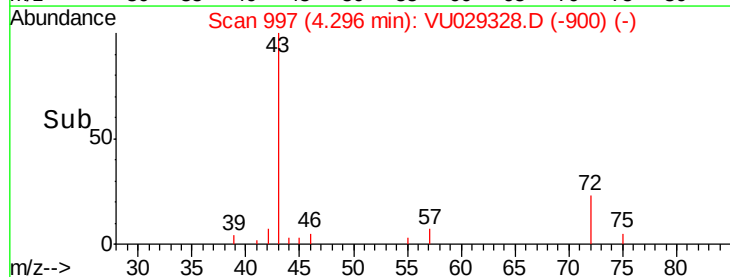
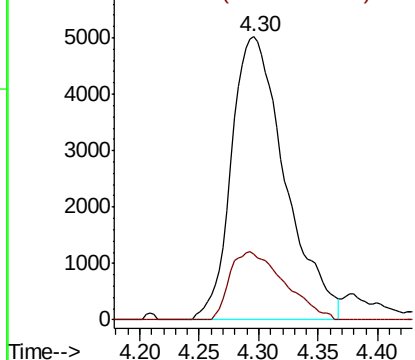


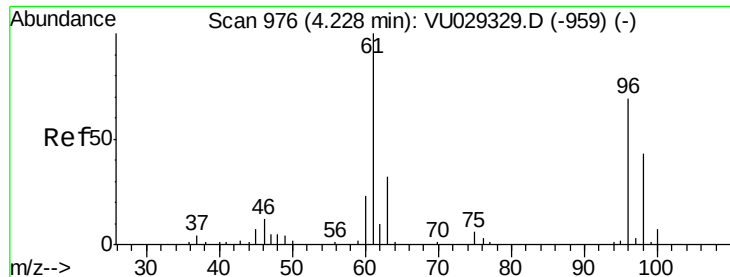
#21
 2-Butanone
 Concen: 10.257 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.01 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion: 43 Resp: 15704
 Ion Ratio Lower Upper
 43 100
 72 24.6 11.8 35.3



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



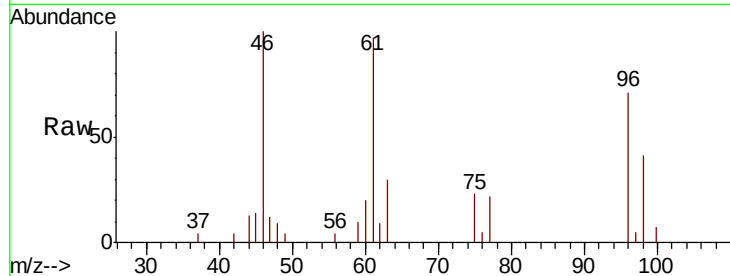


#22

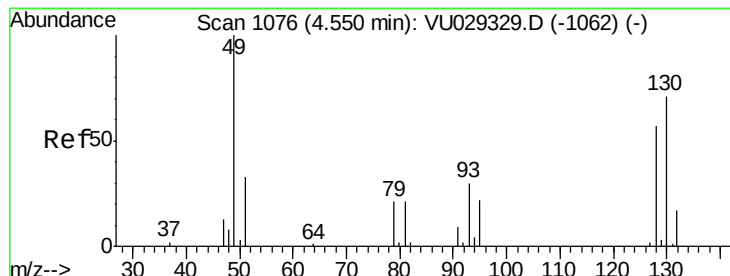
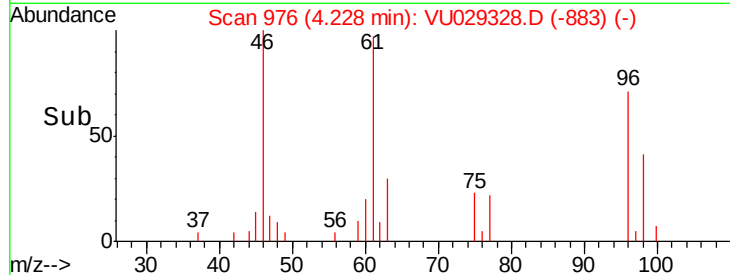
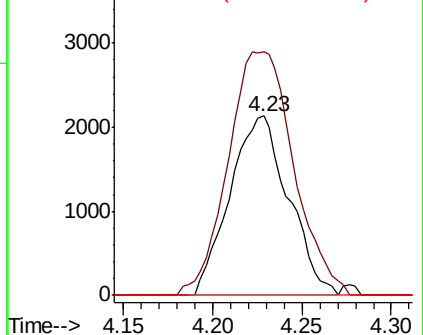
cis-1,2-Dichloroethene
 Concen: 0.974 ug/L
 RT: 4.23 min Scan# 976
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

Tgt Ion: 96 Resp: 4894
 Ion Ratio Lower Upper
 96 100
 61 135.5 101.4 188.2
 68 0.0 0.0 0.0



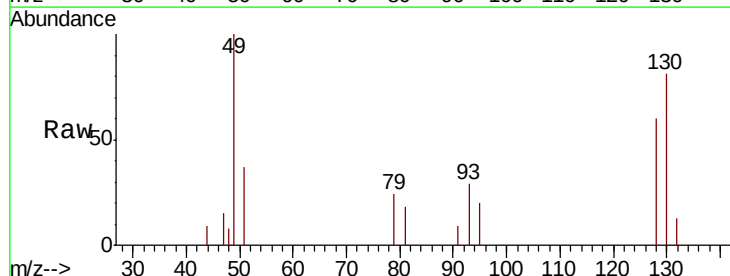
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



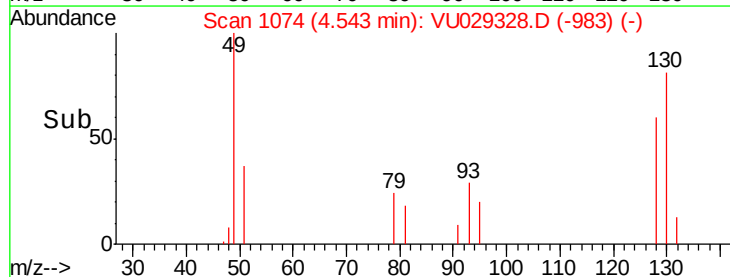
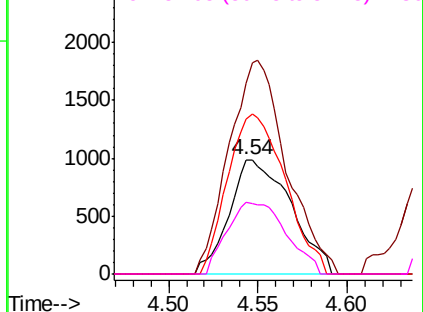
#23

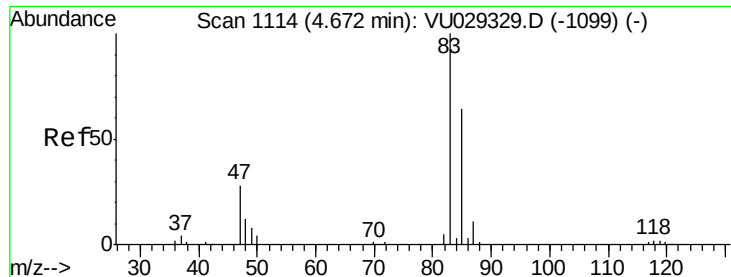
Bromochloromethane
 Concen: 1.056 ug/L
 RT: 4.54 min Scan# 1074
 Delta R.T. -0.01 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion: 128 Resp: 2374
 Ion Ratio Lower Upper
 128 100
 49 167.3 125.2 232.6
 130 135.3 87.8 163.0
 51 62.6 46.4 69.6



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

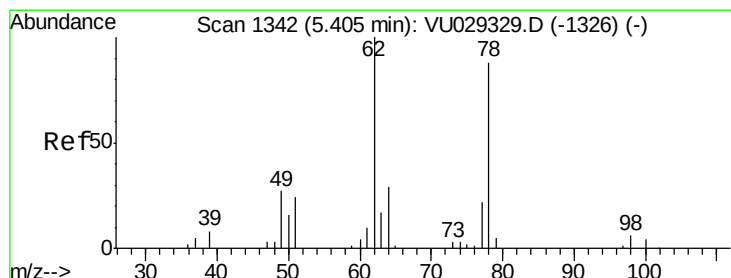
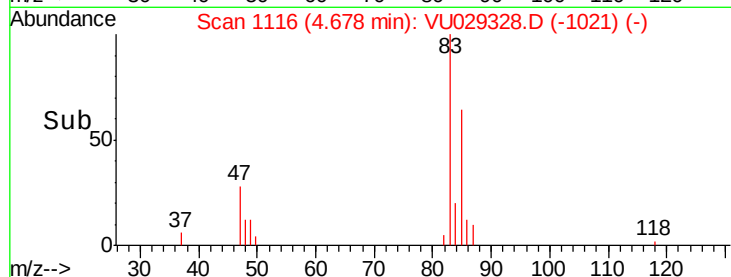
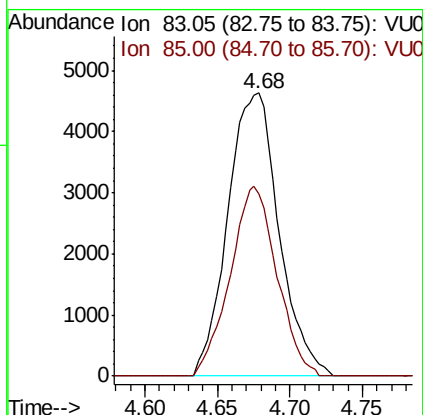
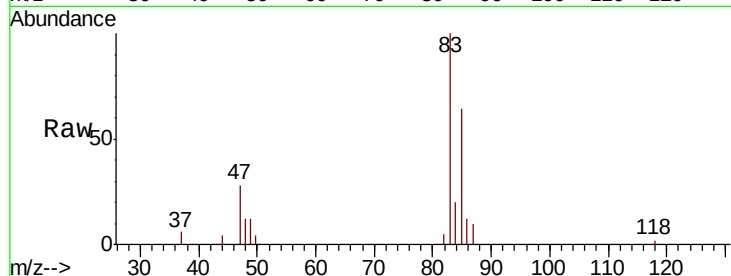




#25
Chloroform
Concen: 1.071 ug/L
RT: 4.68 min Scan# 1116
Delta R.T. 0.01 min
Lab File: VU029328.D
Acq: 01 Feb 2019 11:44

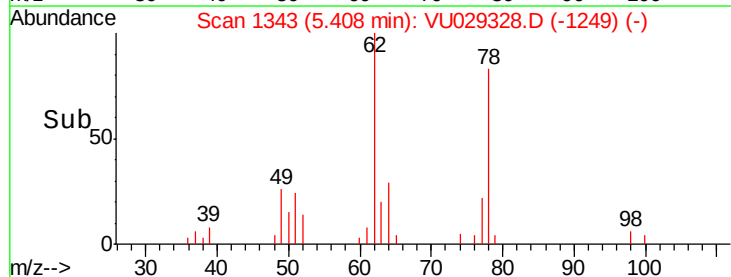
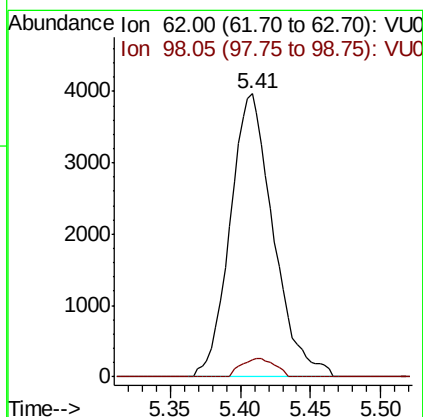
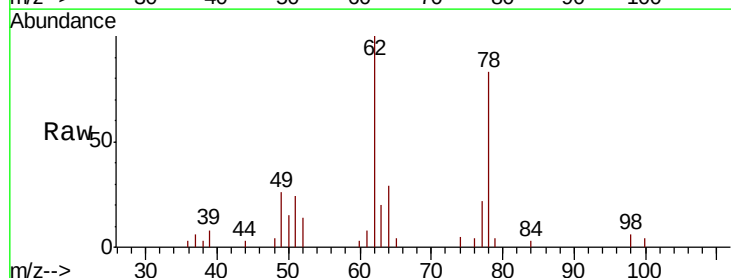
Instrument :
MSVOA_U
ClientSampleId :
VSTD00144

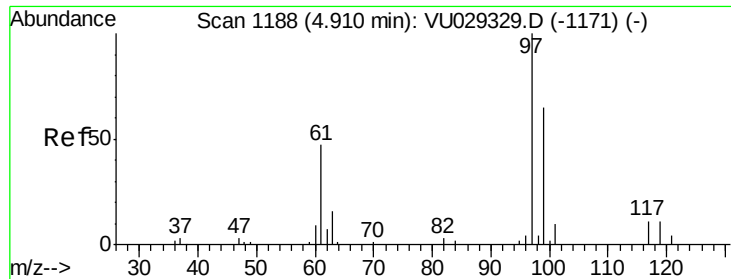
Tgt Ion: 83 Resp: 11336
Ion Ratio Lower Upper
83 100
85 64.3 45.6 84.6



#27
1,2-Dichloroethane
Concen: 1.053 ug/L
RT: 5.41 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VU029328.D
Acq: 01 Feb 2019 11:44

Tgt Ion: 62 Resp: 8478
Ion Ratio Lower Upper
62 100
98 5.9 4.9 7.3

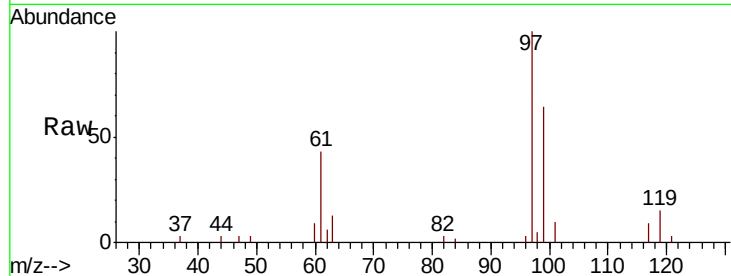




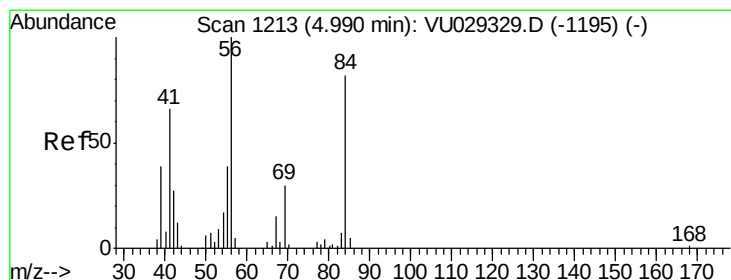
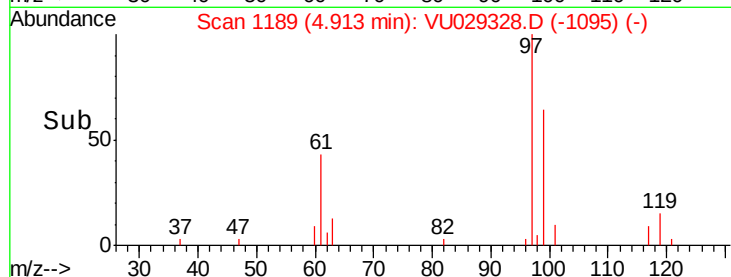
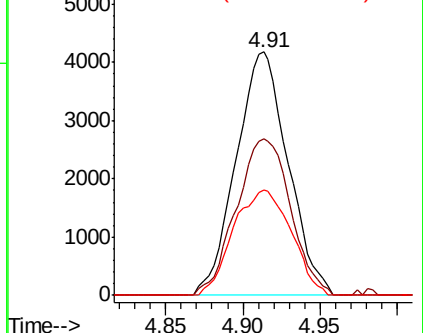
#29
 1,1,1-Trichloroethane
 Concen: 0.976 ug/L
 RT: 4.91 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD00144

Tgt Ion: 97 Resp: 9749
 Ion Ratio Lower Upper
 97 100
 99 67.3 51.6 77.4
 61 48.1 37.8 56.8

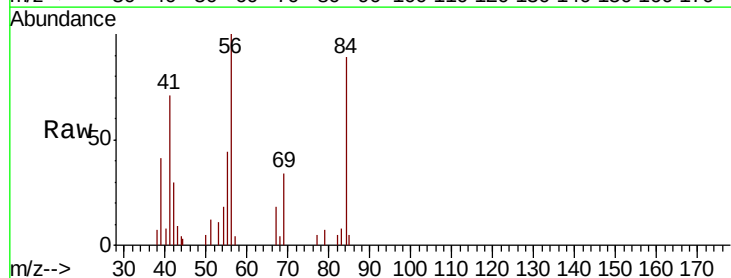


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

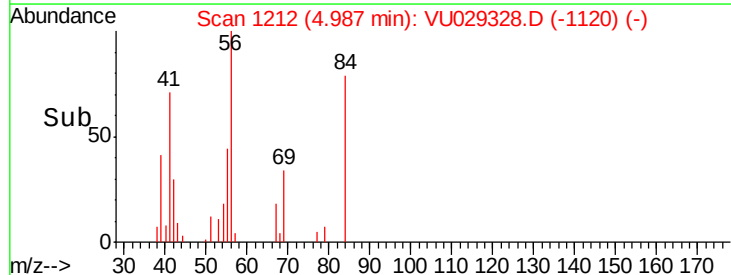
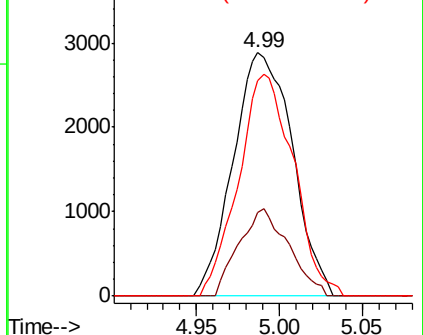


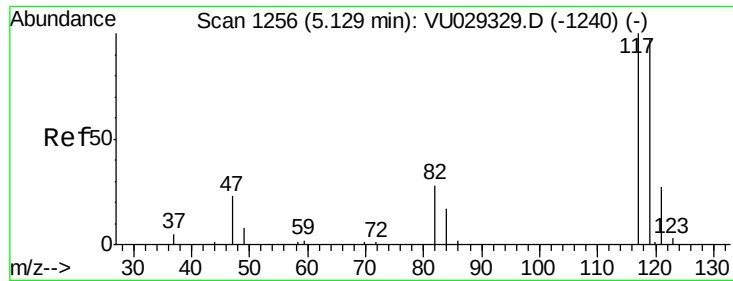
#30
 Cyclohexane
 Concen: 0.909 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. -0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion: 56 Resp: 7141
 Ion Ratio Lower Upper
 56 100
 69 30.1 24.1 36.1
 84 84.5 66.4 99.6



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: 0.984 ug/L

RT: 5.14 min Scan# 1258

Delta R.T. 0.01 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

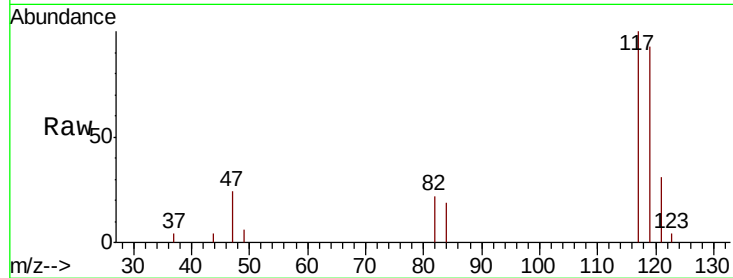
VSTD00144

Tgt Ion:117 Resp: 8619

Ion Ratio Lower Upper

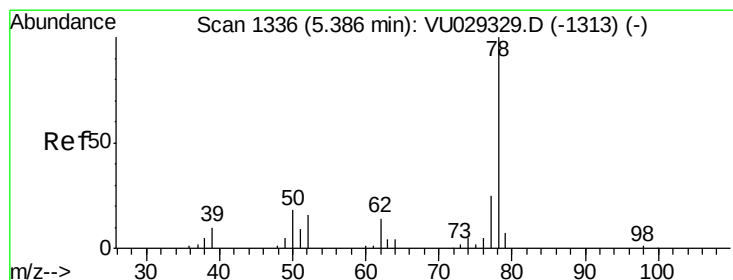
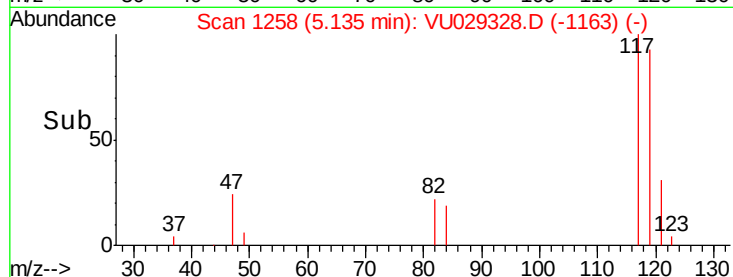
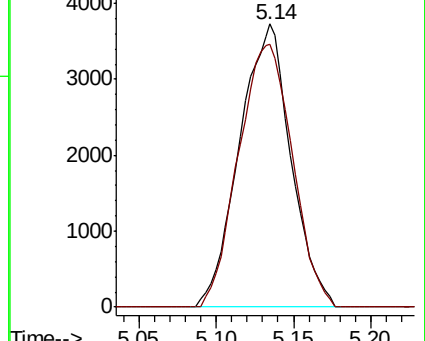
117 100

119 97.5 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.993 ug/L

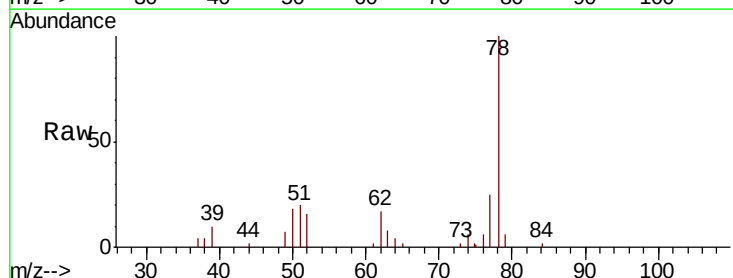
RT: 5.39 min Scan# 1337

Delta R.T. 0.00 min

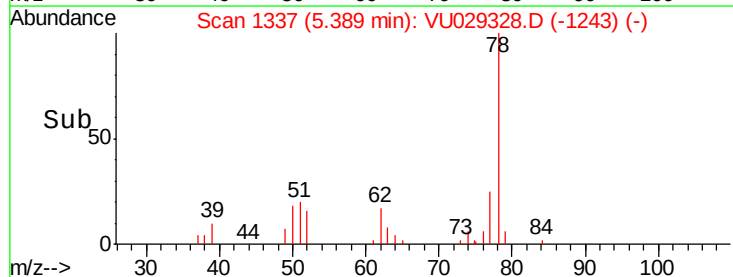
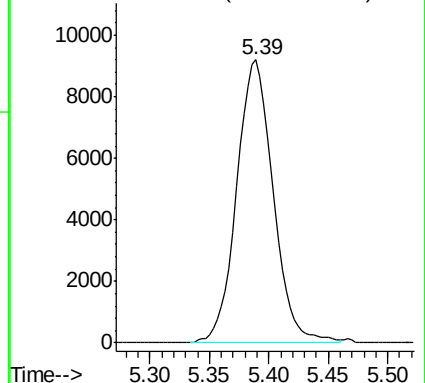
Lab File: VU029328.D

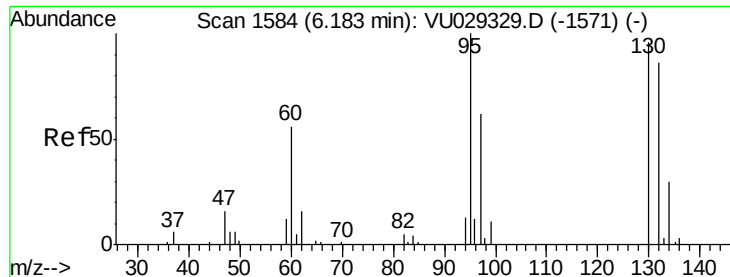
Acq: 01 Feb 2019 11:44

Tgt Ion: 78 Resp: 19622



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.996 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD00144

Tgt Ion: 95 Resp: 5339

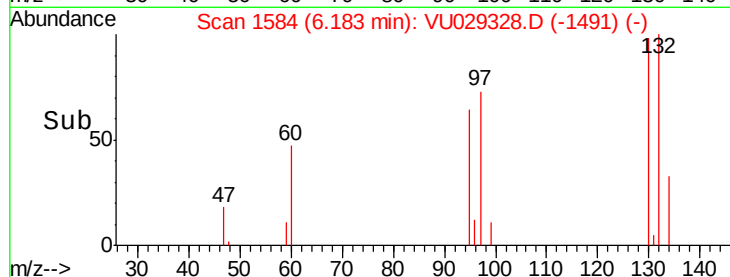
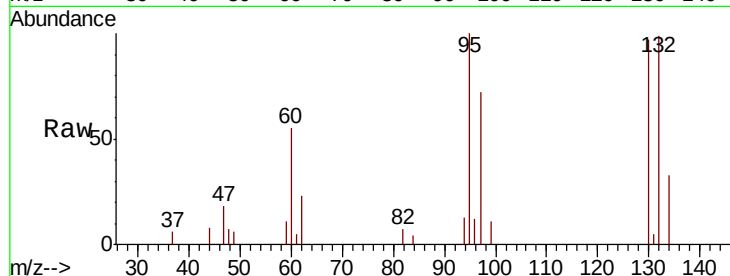
Ion Ratio Lower Upper

95 100

97 72.2 43.3 80.3

132 98.7 60.4 112.2

130 96.9 67.5 125.3

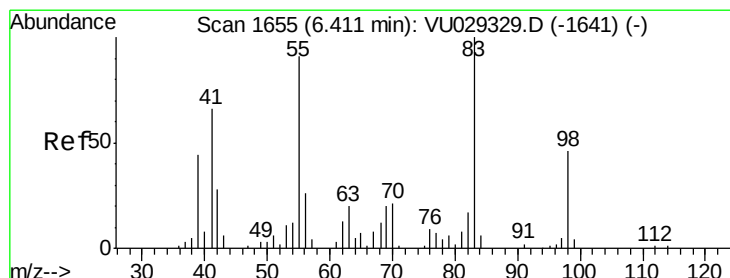
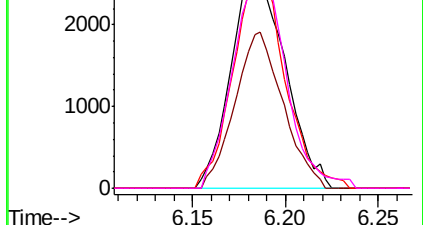


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.892 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

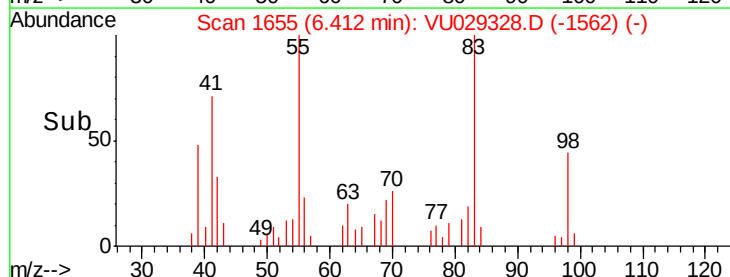
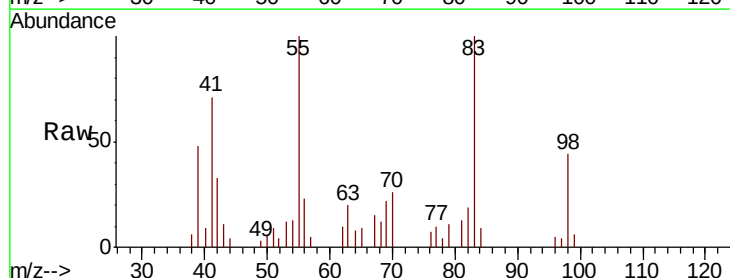
Tgt Ion: 83 Resp: 7015

Ion Ratio Lower Upper

83 100

55 96.1 72.2 108.4

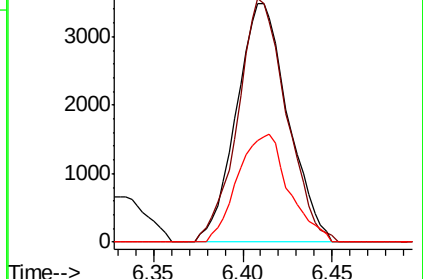
98 44.8 36.6 54.8

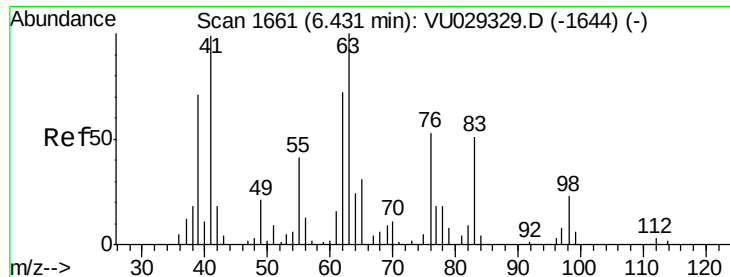


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

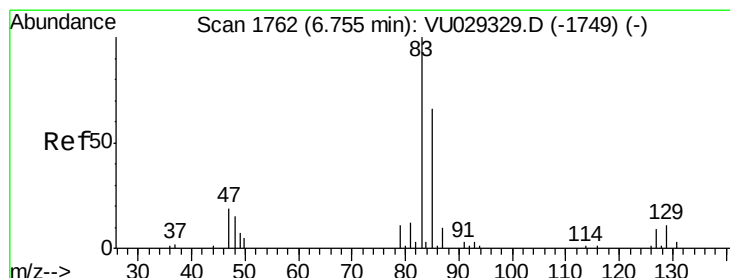
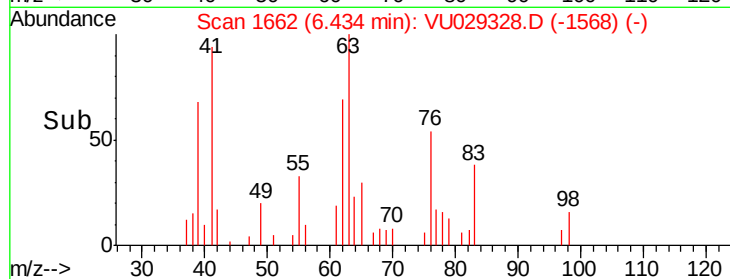
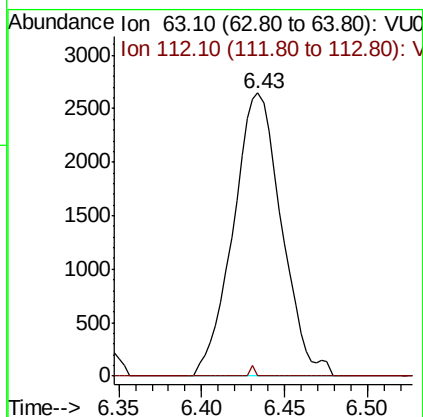
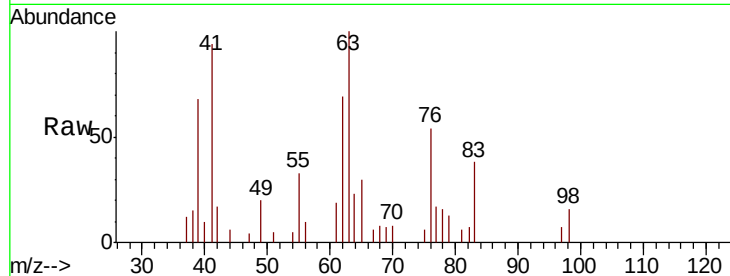




#37
 1,2-Dichloropropane
 Concen: 1.002 ug/L
 RT: 6.43 min Scan# 1662
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

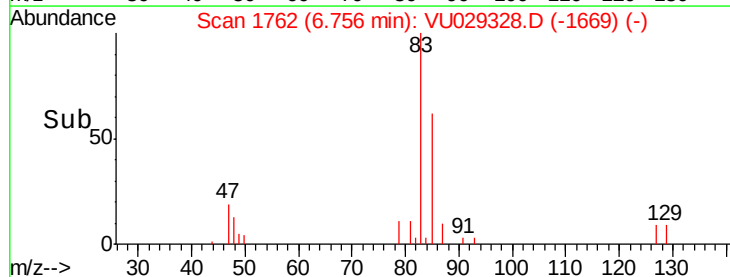
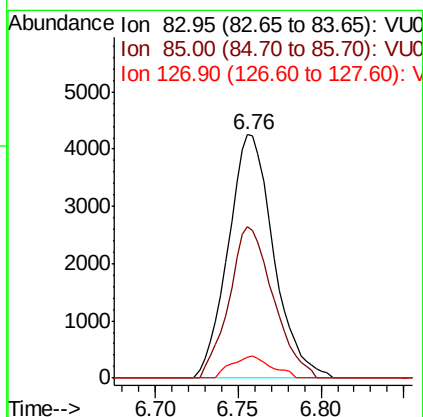
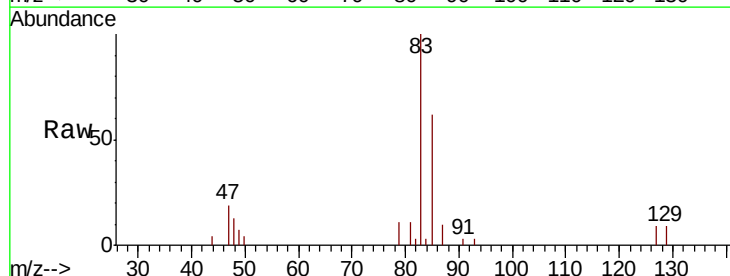
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

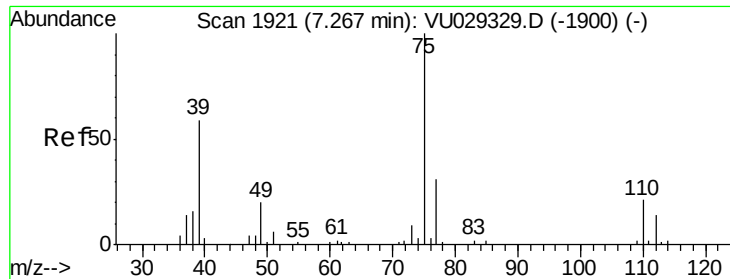
Tgt Ion: 63 Resp: 5358
 Ion Ratio Lower Upper
 63 100
 112 0.4 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 1.046 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion: 83 Resp: 8081
 Ion Ratio Lower Upper
 83 100
 85 62.2 46.2 85.8
 127 8.7 7.3 10.9

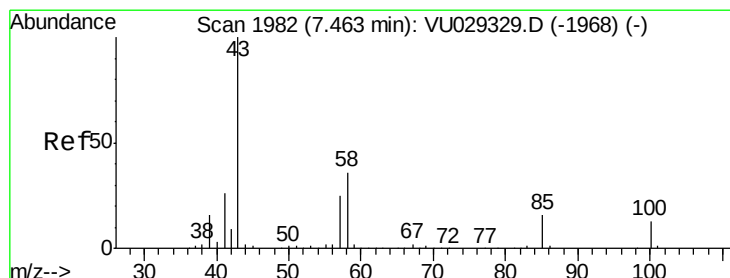
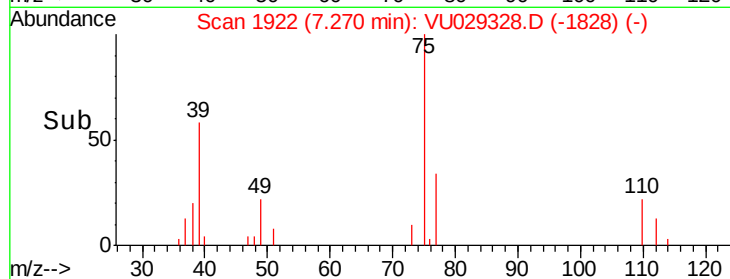
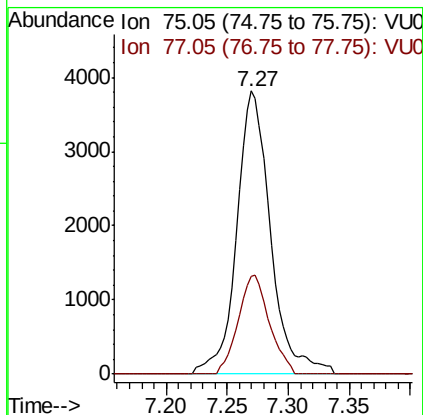
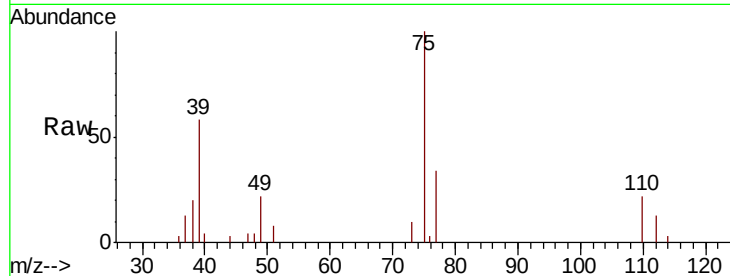




#39
 cis-1,3-Dichloropropene
 Concen: 0.939 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

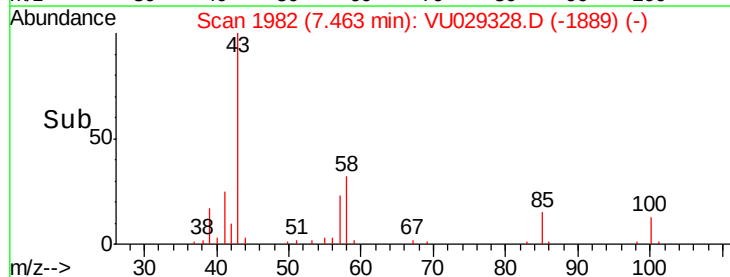
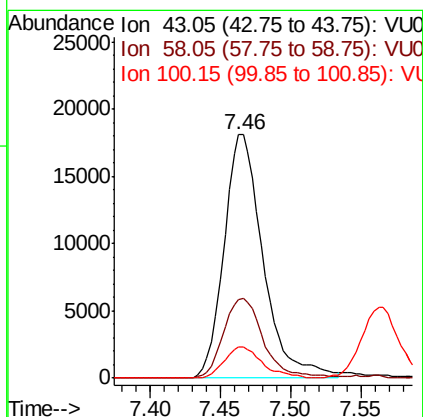
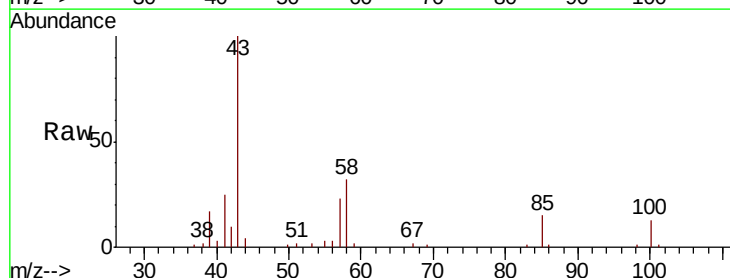
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

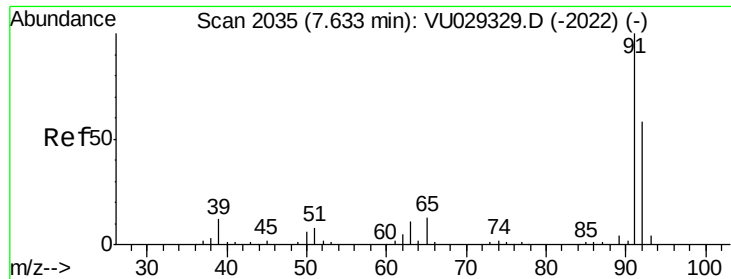
Tgt Ion: 75 Resp: 7314
 Ion Ratio Lower Upper
 75 100
 77 34.3 22.0 40.8



#40
 4-Methyl-2-pentanone
 Concen: 9.487 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion: 43 Resp: 35065
 Ion Ratio Lower Upper
 43 100
 58 33.5 27.8 41.8
 100 12.5 10.1 15.1





#42

Toluene

Concen: 0.942 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

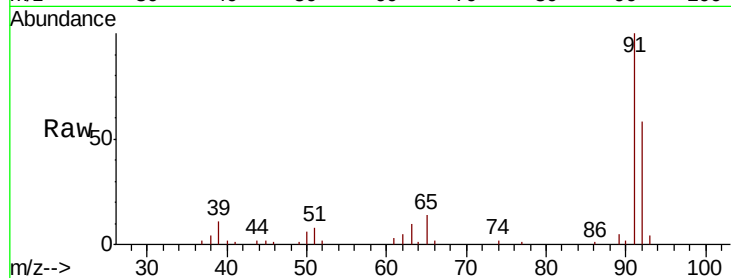
VSTD00144

Tgt Ion: 91 Resp: 19640

Ion Ratio Lower Upper

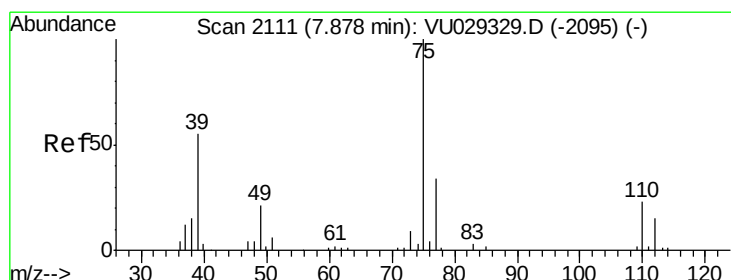
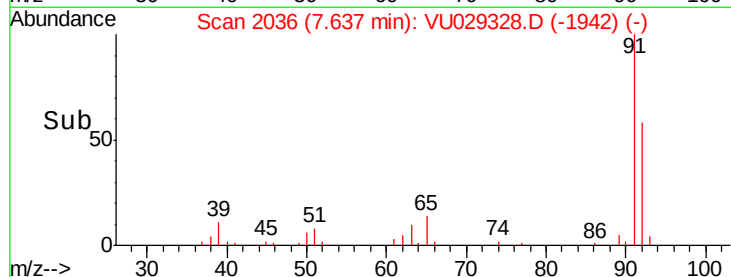
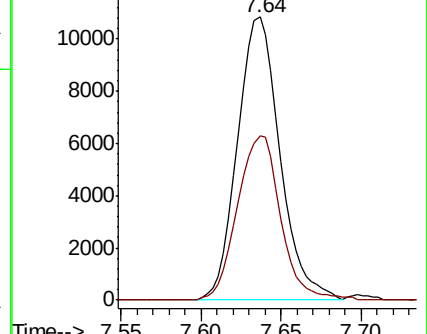
91 100

92 58.0 40.5 75.3



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: 0.931 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU029328.D

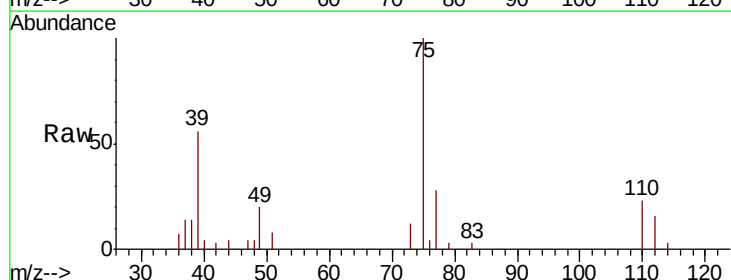
Acq: 01 Feb 2019 11:44

Tgt Ion: 75 Resp: 6561

Ion Ratio Lower Upper

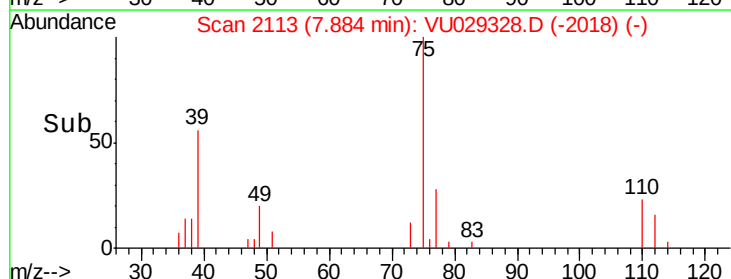
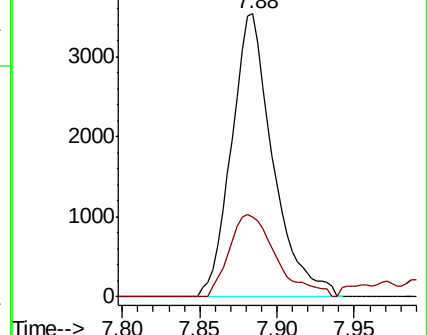
75 100

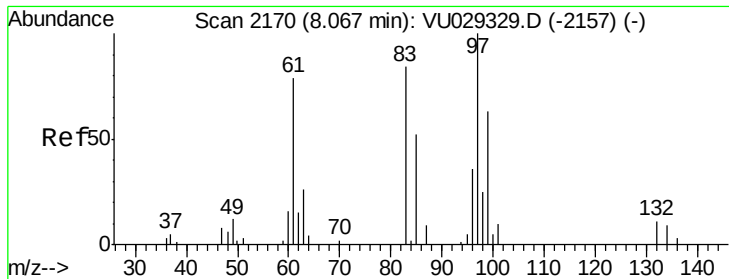
77 28.3 23.8 44.2



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: 1.037 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD00144

Tgt Ion: 97 Resp: 3846

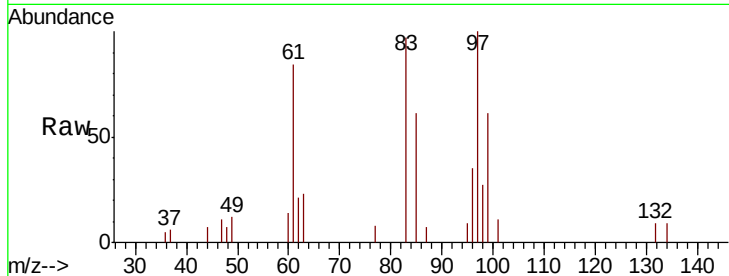
Ion Ratio Lower Upper

97 100

99 60.9 44.2 82.2

83 96.8 59.1 109.7

85 61.2 36.5 67.9

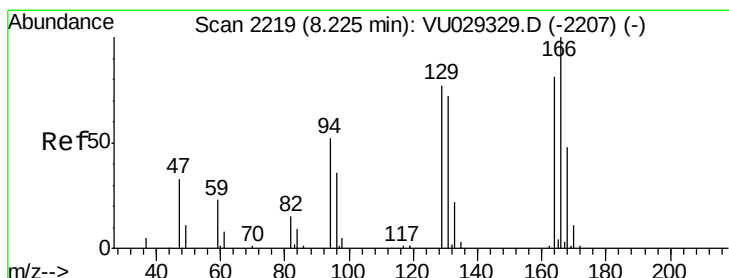
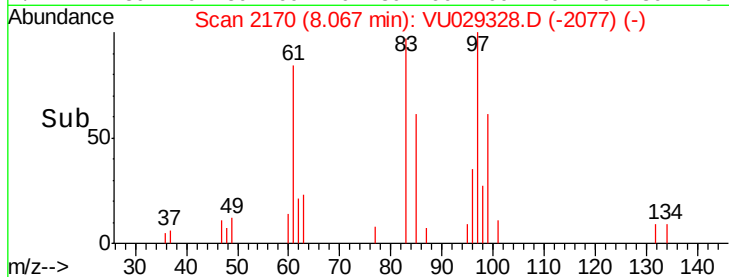
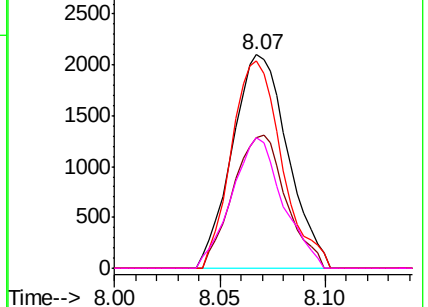


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 0.944 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Tgt Ion: 164 Resp: 4187

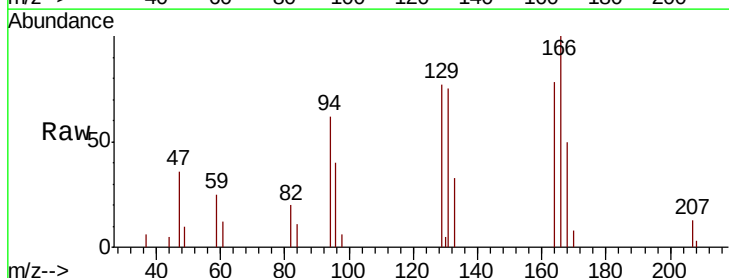
Ion Ratio Lower Upper

164 100

129 97.8 66.1 122.7

131 95.2 62.4 115.8

166 127.6 86.1 159.9

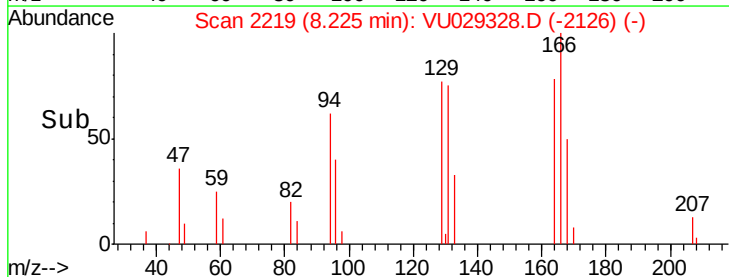
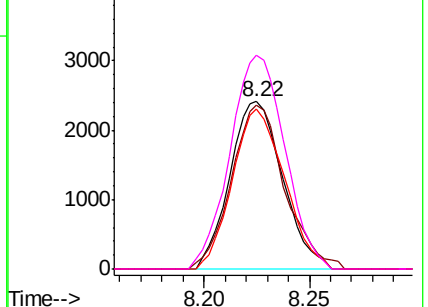


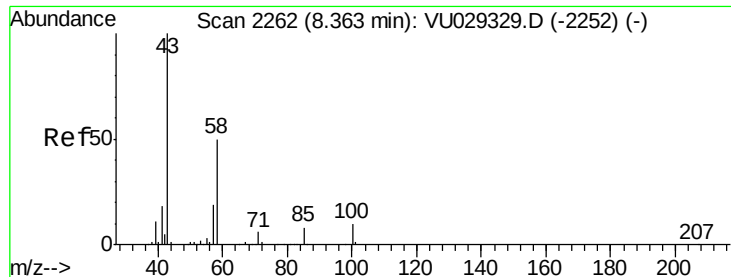
Abundance Ion 163.90 (163.60 to 164.60): V

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

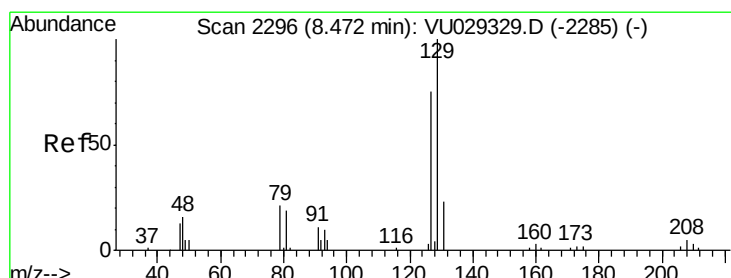
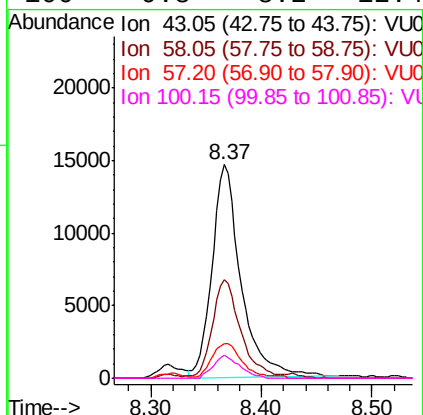
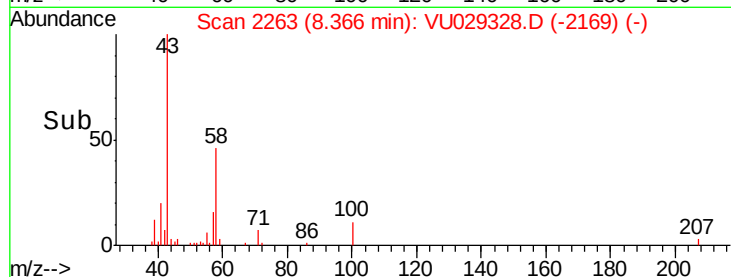
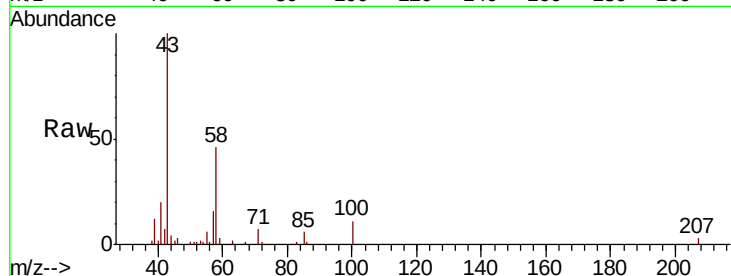




#48
2-Hexanone
Concen: 9.580 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VU029328.D
Acq: 01 Feb 2019 11:44

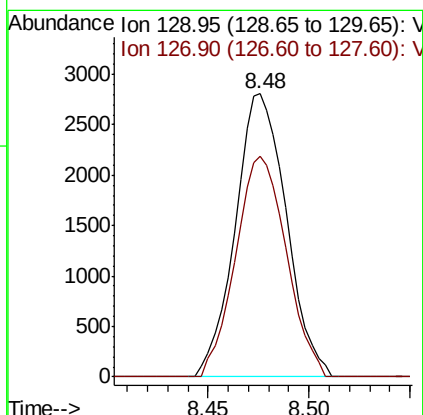
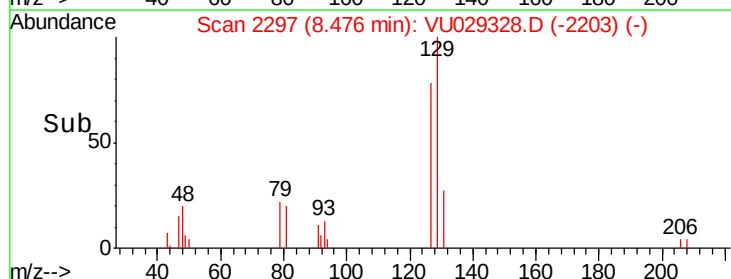
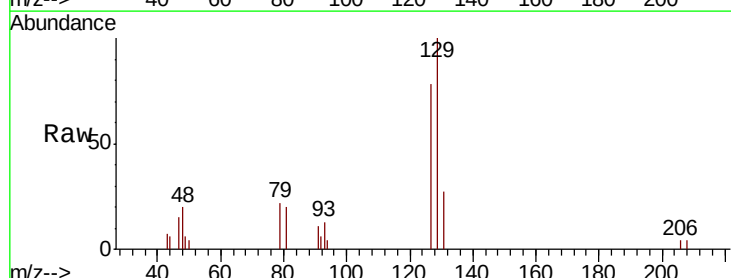
Instrument :
MSVOA_U
ClientSampleId :
VSTD00144

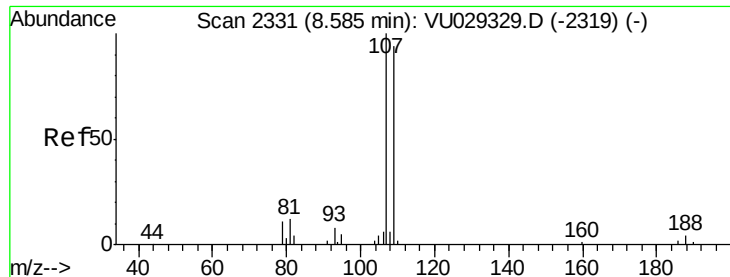
Tgt Ion: 43 Resp: 26530
Ion Ratio Lower Upper
43 100
58 45.4 39.4 59.0
57 17.1 15.1 22.7
100 9.8 8.2 12.4



#49
Dibromochloromethane
Concen: 1.000 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029328.D
Acq: 01 Feb 2019 11:44

Tgt Ion: 129 Resp: 4970
Ion Ratio Lower Upper
129 100
127 77.9 52.8 98.0

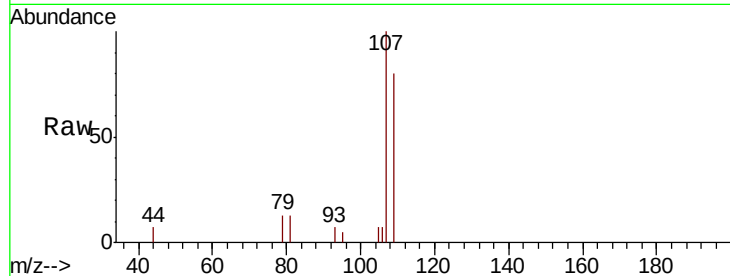




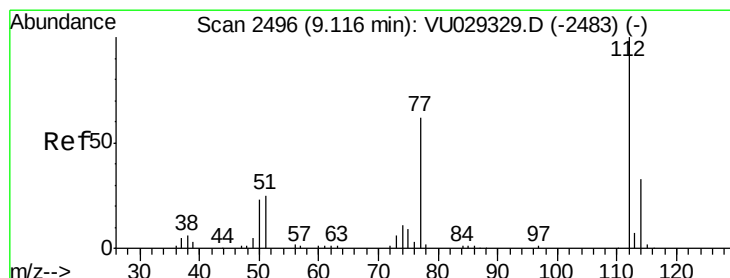
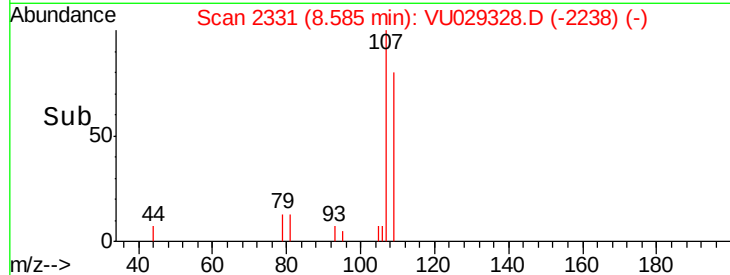
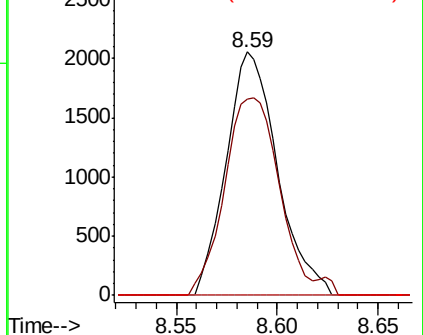
#50
1,2-Dibromoethane
Concen: 1.039 ug/L
RT: 8.59 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU029328.D
Acq: 01 Feb 2019 11:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD00144

Tgt Ion:107 Resp: 3650
Ion Ratio Lower Upper
107 100
109 80.4 65.6 121.8
188 0.0 2.8 4.2#

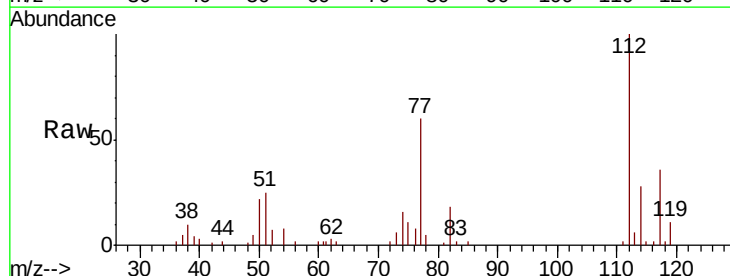


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

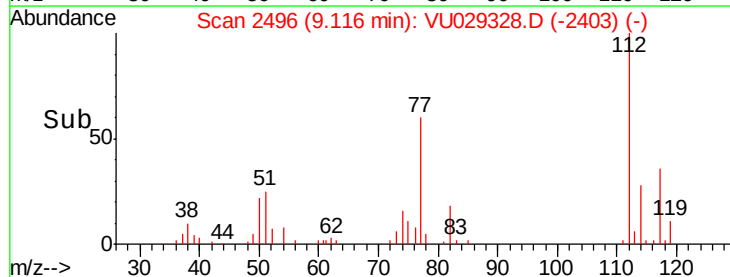
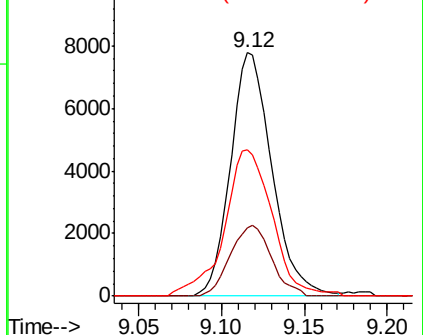


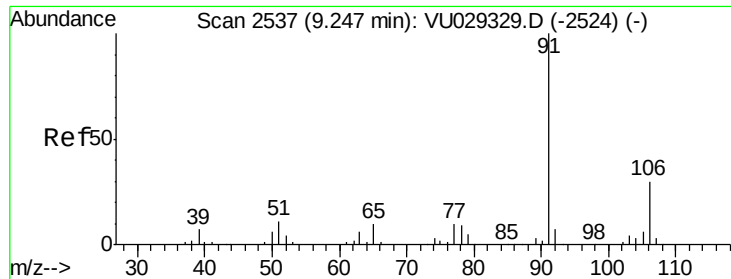
#51
Chlorobenzene
Concen: 1.002 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029328.D
Acq: 01 Feb 2019 11:44

Tgt Ion:112 Resp: 13569
Ion Ratio Lower Upper
112 100
114 27.8 22.8 42.4
77 60.3 49.9 74.9



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: 0.934 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

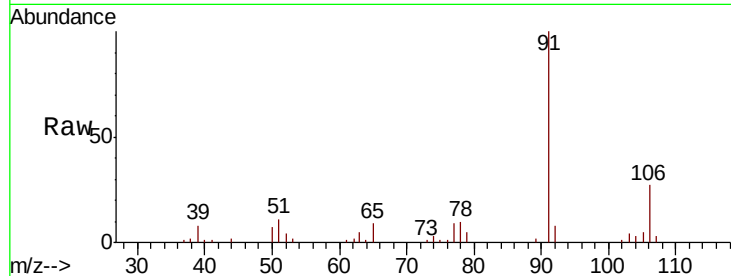
VSTD00144

Tgt Ion: 91 Resp: 21623

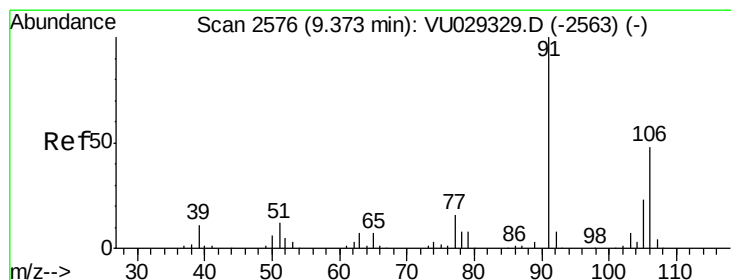
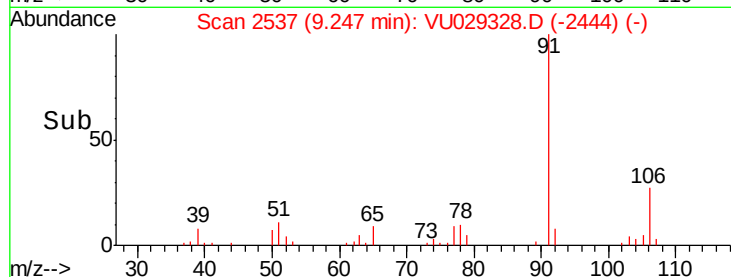
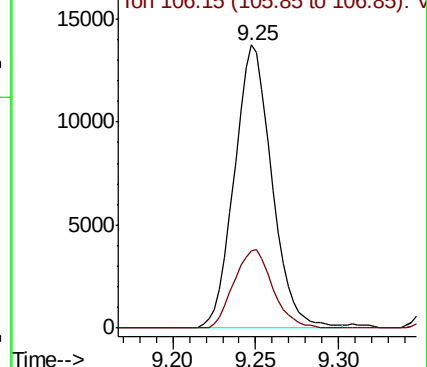
Ion Ratio Lower Upper

91 100

106 27.4 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU029328.D (-2444) (-)



#53

m,p-xylene

Concen: 0.896 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU029328.D

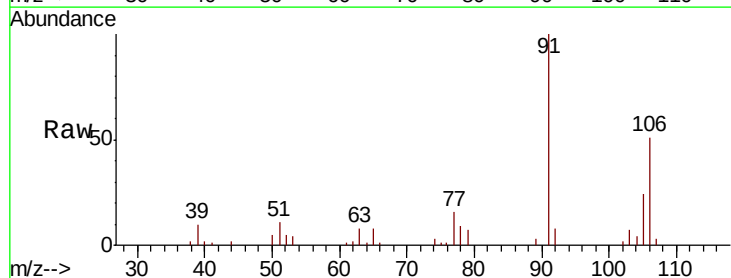
Acq: 01 Feb 2019 11:44

Tgt Ion: 106 Resp: 7806

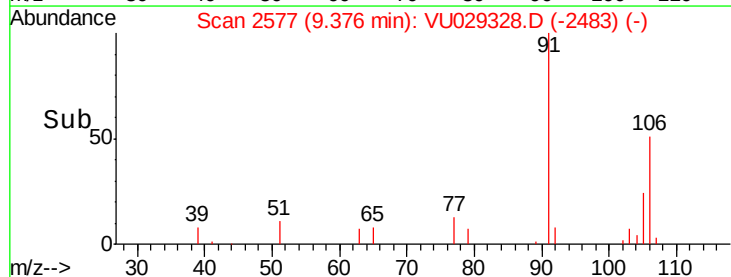
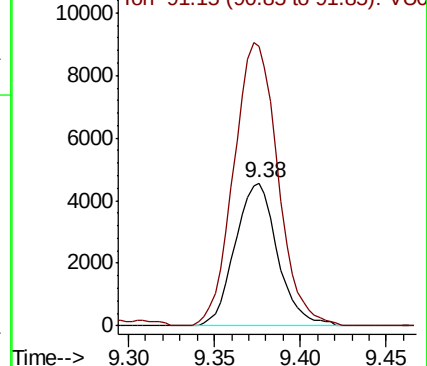
Ion Ratio Lower Upper

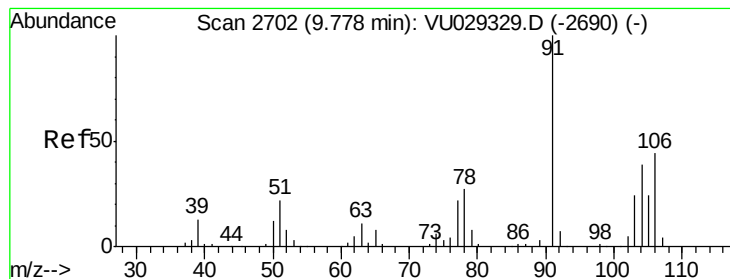
106 100

91 195.7 145.9 270.9



Abundance Ion 106.15 (105.85 to 106.85): VU029328.D (-2483) (-)





#54

o-xylene

Concen: 0.928 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

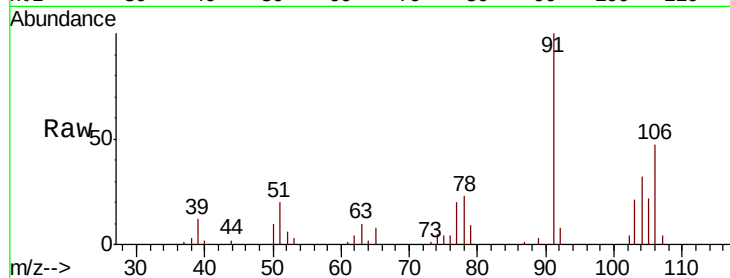
VSTD00144

Tgt Ion:106 Resp: 7747

Ion Ratio Lower Upper

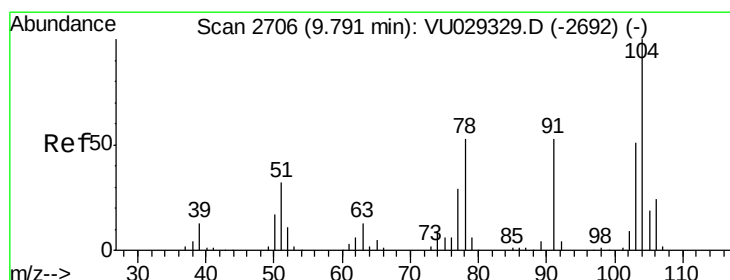
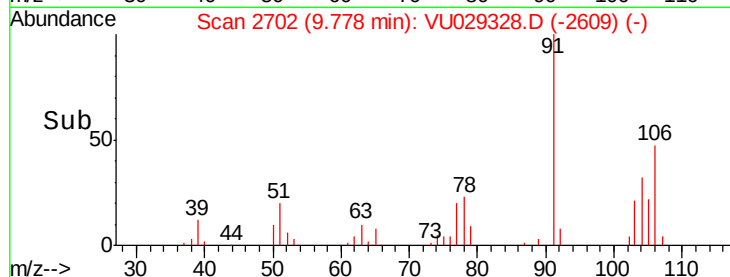
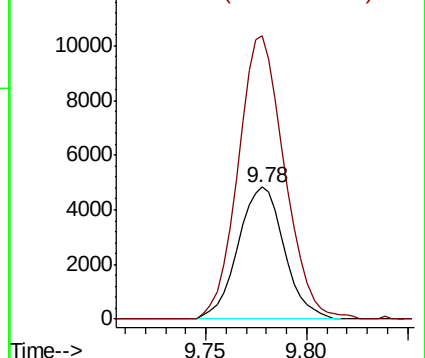
106 100

91 214.0 160.9 298.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.881 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029328.D

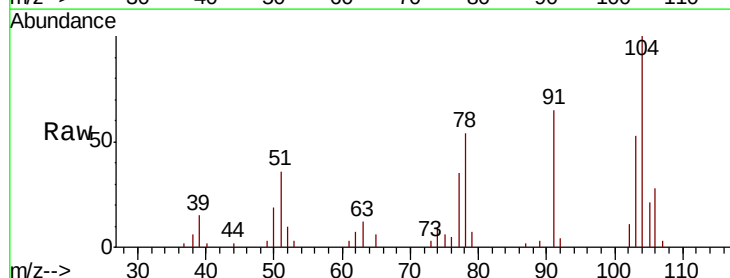
Acq: 01 Feb 2019 11:44

Tgt Ion:104 Resp: 12632

Ion Ratio Lower Upper

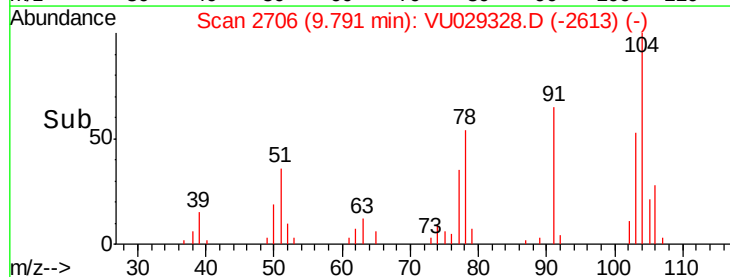
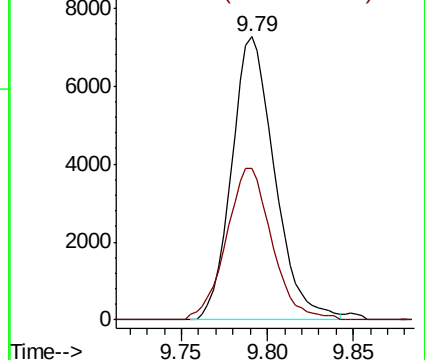
104 100

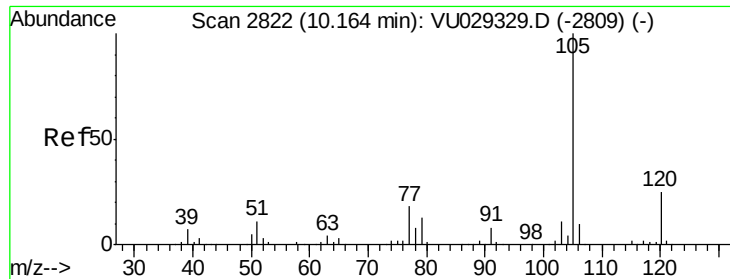
78 53.7 36.8 68.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.901 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD00144

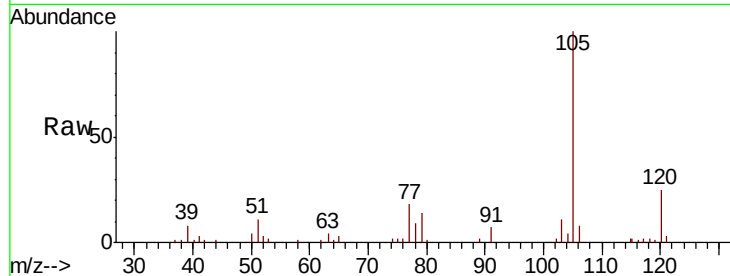
Tgt Ion: 105 Resp: 20470

Ion Ratio Lower Upper

105 100

120 25.6 20.2 30.2

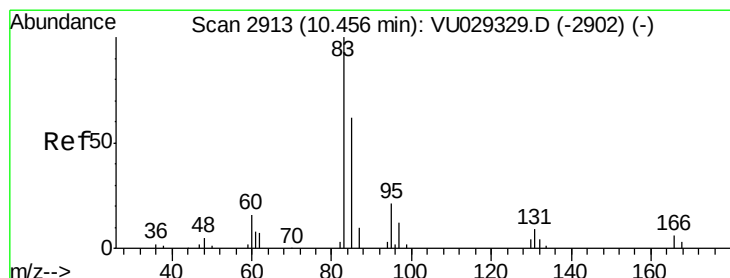
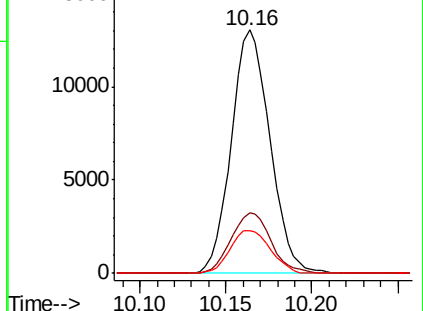
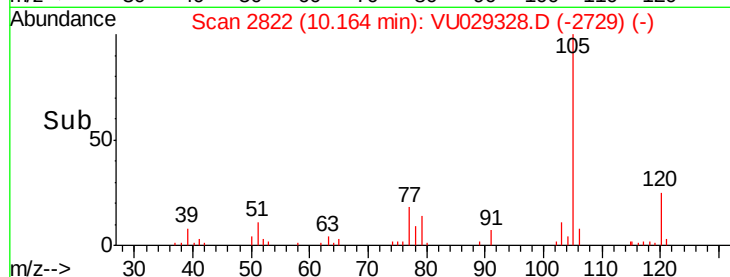
77 18.4 13.9 20.9



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: 1.009 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

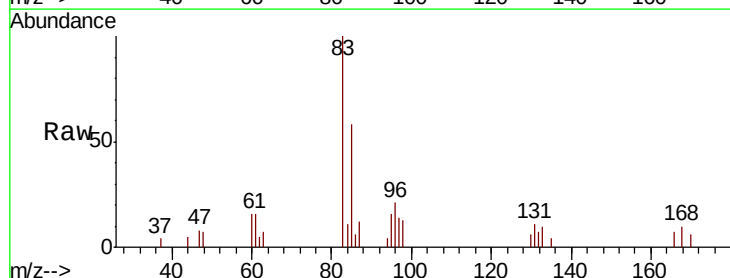
Tgt Ion: 83 Resp: 4832

Ion Ratio Lower Upper

83 100

85 57.9 44.4 82.4

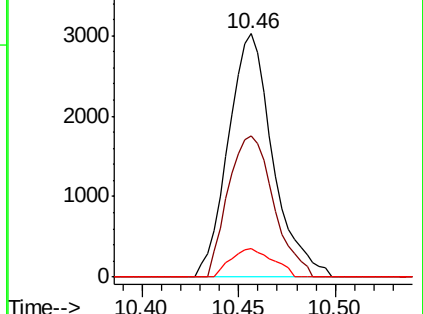
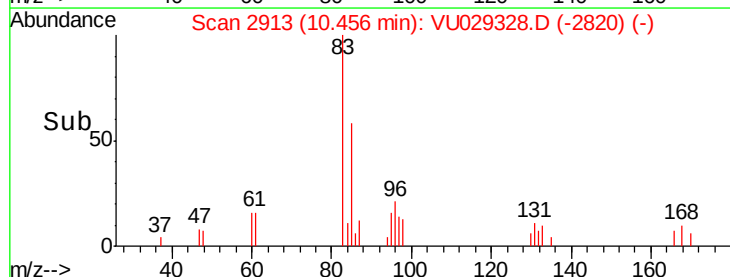
131 11.5 8.9 13.3

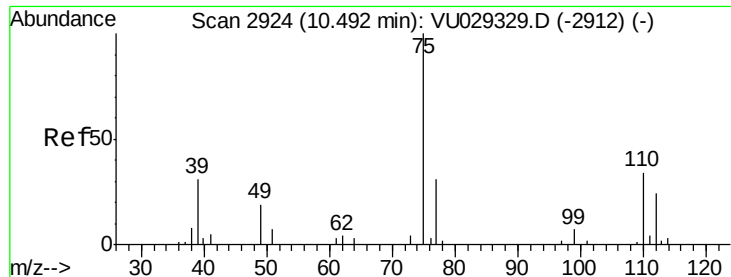


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

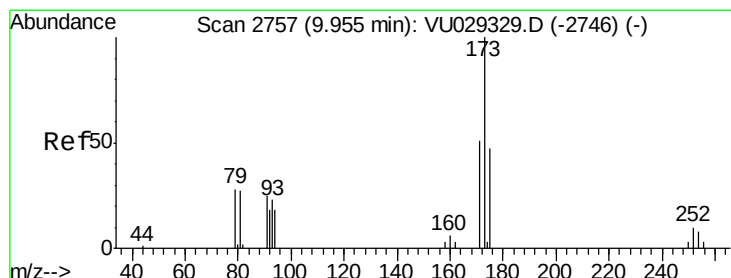
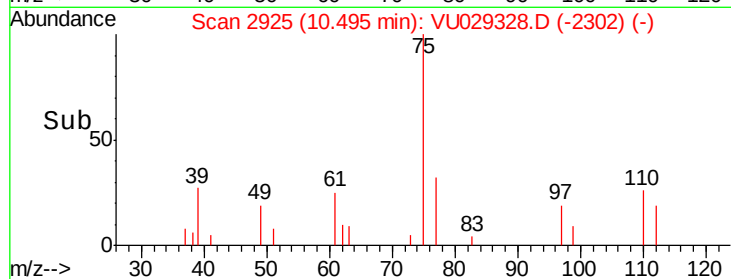
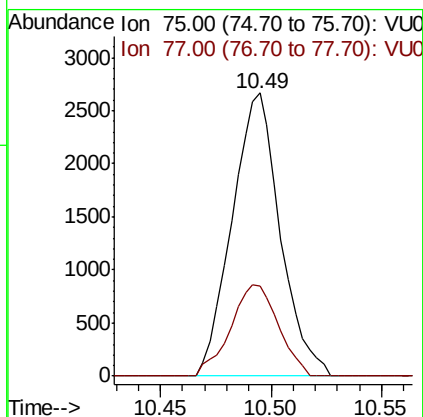
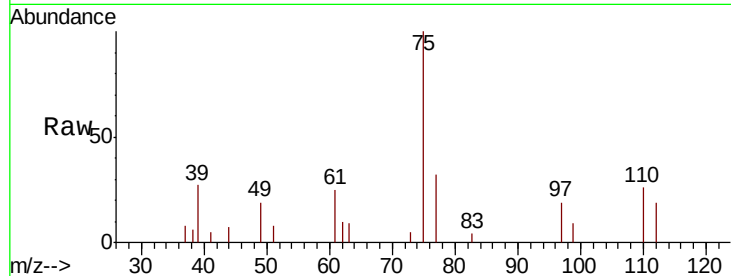




#59
 1,2,3-Trichloropropane
 Concen: 1.057 ug/L
 RT: 10.49 min Scan# 2925
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

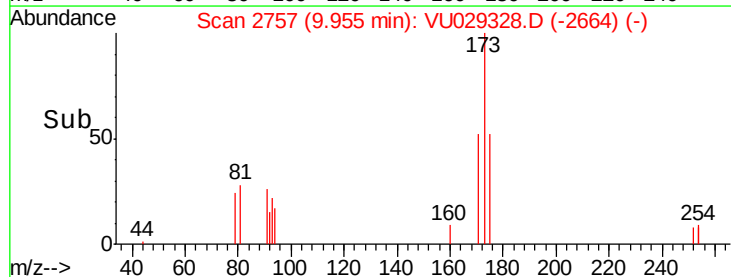
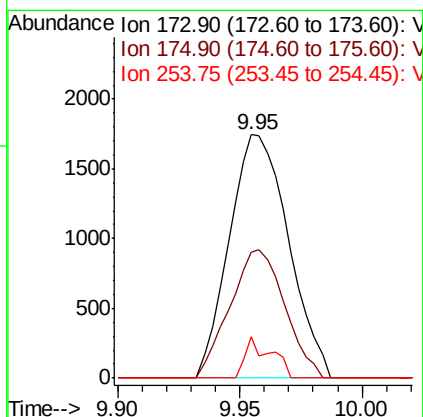
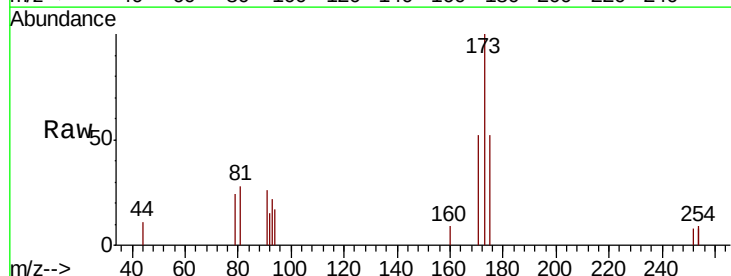
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

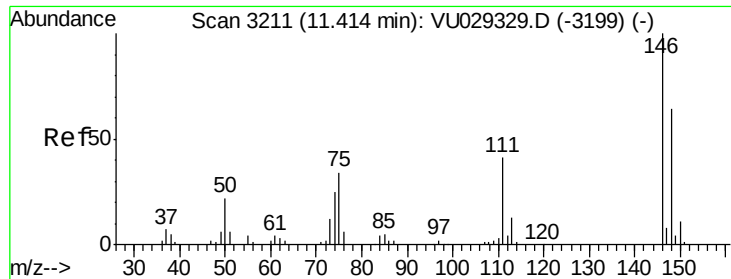
Tgt Ion: 75 Resp: 4027
 Ion Ratio Lower Upper
 75 100
 77 32.1 24.7 37.1



#61
 Bromoform
 Concen: 1.030 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion: 173 Resp: 2935
 Ion Ratio Lower Upper
 173 100
 175 48.9 37.3 55.9
 254 7.3 6.9 10.3

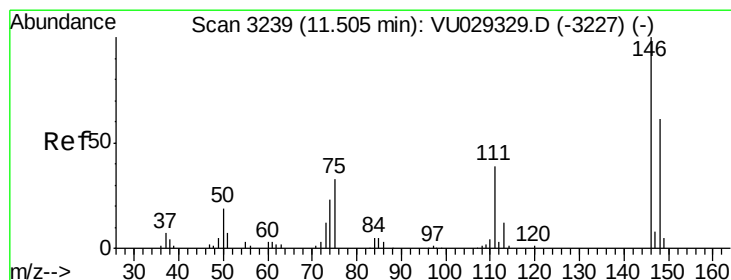
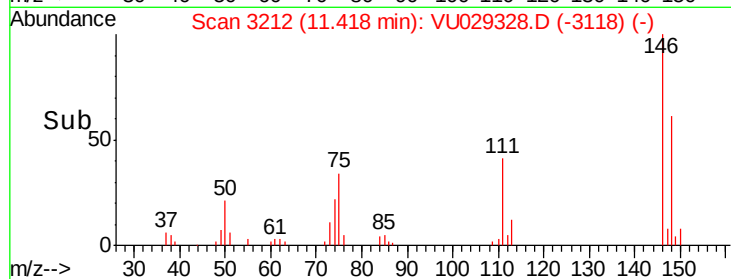
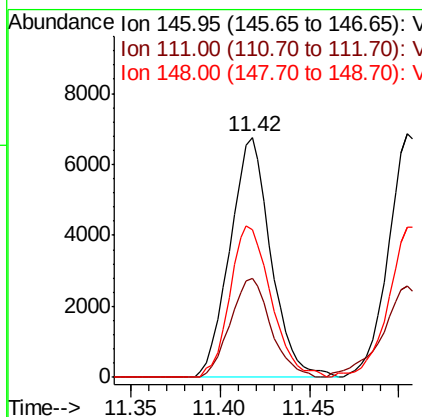
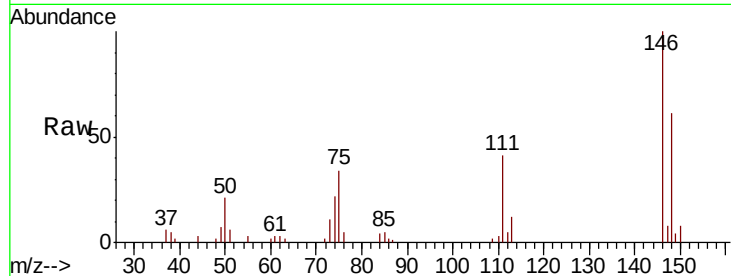




#62
 1,3-Dichlorobenzene
 Concen: 1.018 ug/L
 RT: 11.42 min Scan# 3212
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

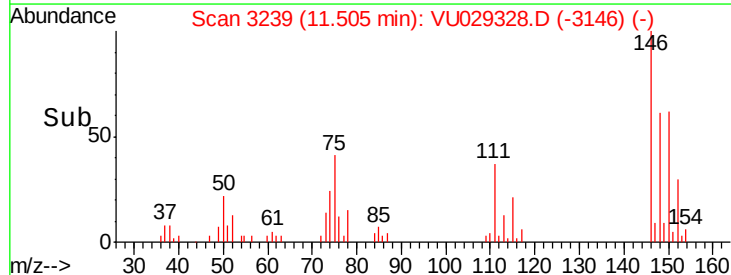
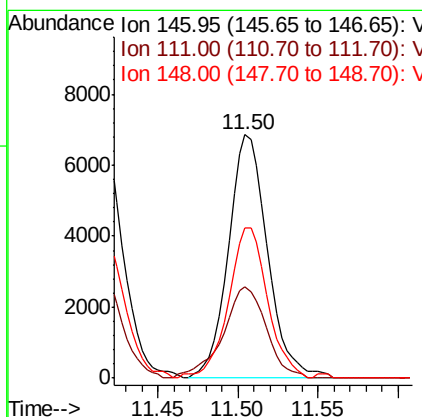
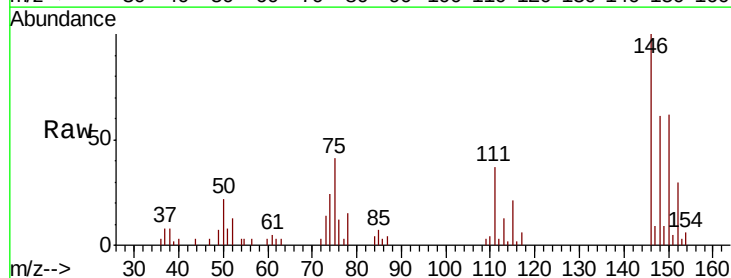
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

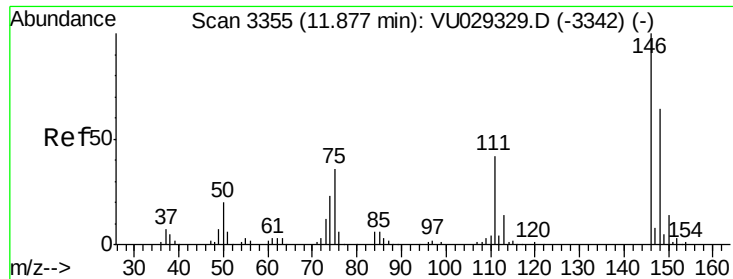
Tgt Ion:146 Resp: 10799
 Ion Ratio Lower Upper
 146 100
 111 41.0 28.8 53.6
 148 61.4 44.7 83.1



#63
 1,4-Dichlorobenzene
 Concen: 1.028 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion:146 Resp: 11385
 Ion Ratio Lower Upper
 146 100
 111 37.3 27.2 50.6
 148 61.5 43.0 79.8

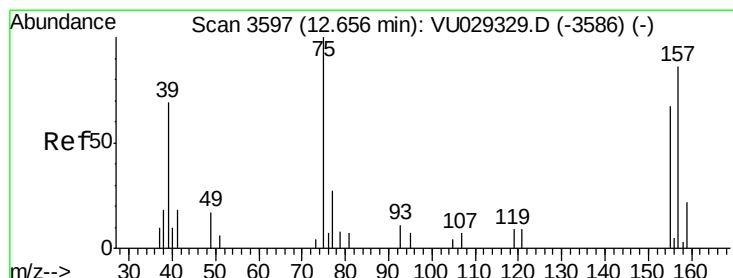
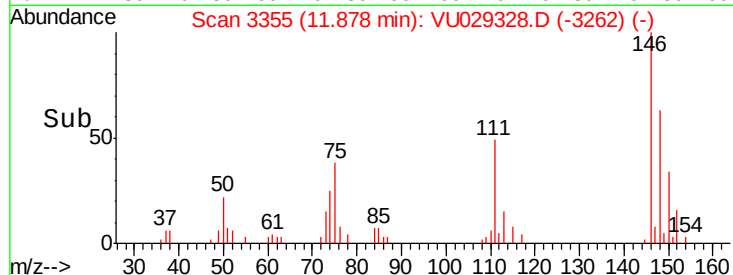
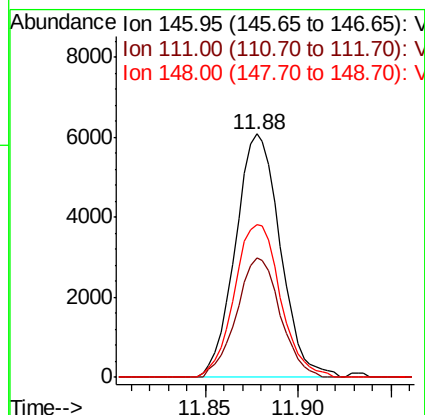
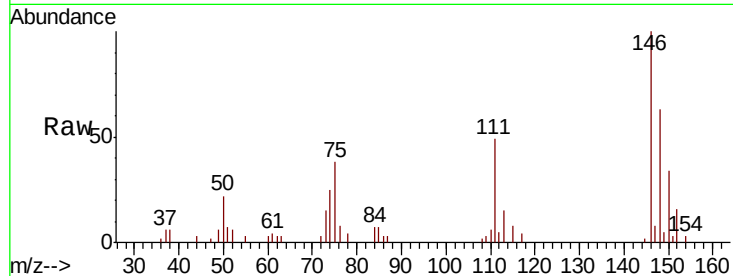




#65
 1,2-Dichlorobenzene
 Concen: 0.983 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

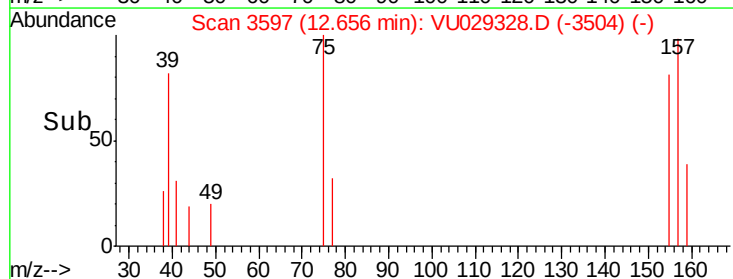
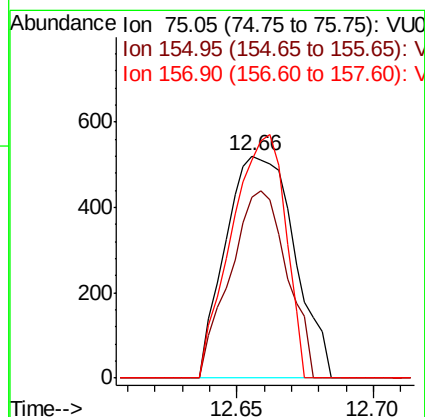
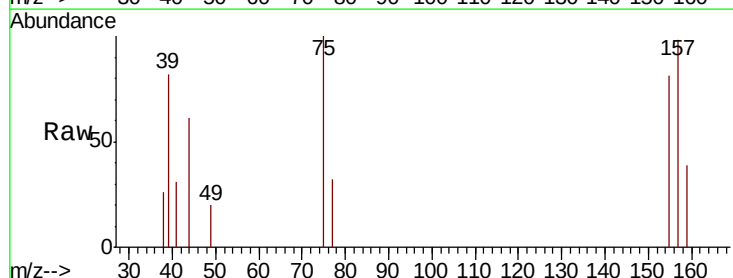
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

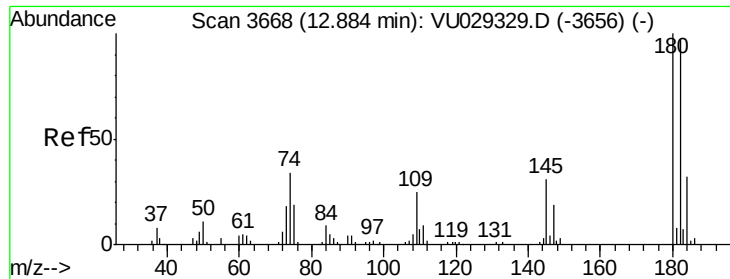
Tgt Ion: 146 Resp: 10197
 Ion Ratio Lower Upper
 146 100
 111 48.9 33.6 50.4
 148 62.5 51.4 77.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.010 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion: 75 Resp: 912
 Ion Ratio Lower Upper
 75 100
 155 81.4 53.7 80.5#
 157 97.9 68.8 103.2

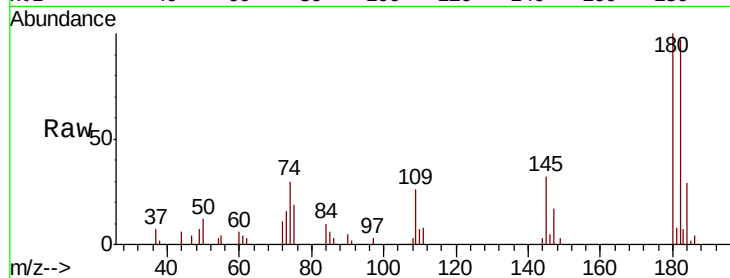




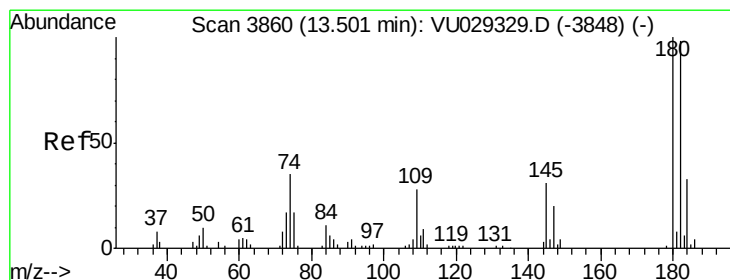
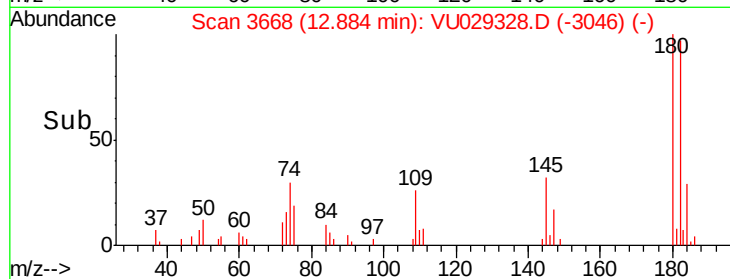
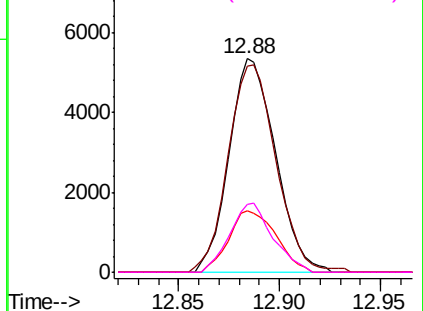
#67
 1,3,5-Trichlorobenzene
 Concen: 0.967 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00144

Tgt Ion:180 Resp: 8632
 Ion Ratio Lower Upper
 180 100
 182 100.1 76.4 114.6
 184 29.1 24.6 36.8
 145 29.9 23.7 35.5

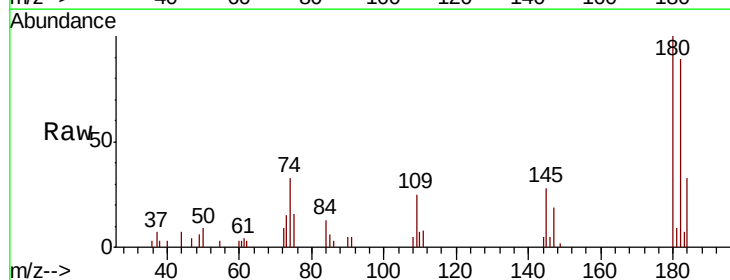


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

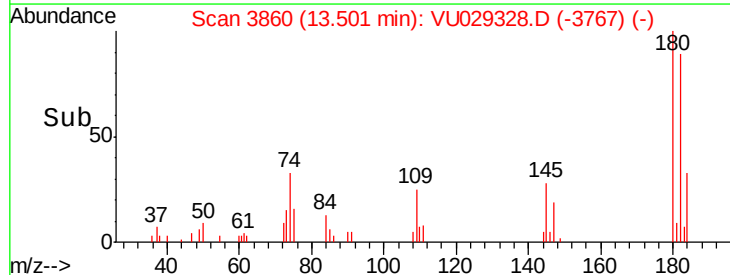
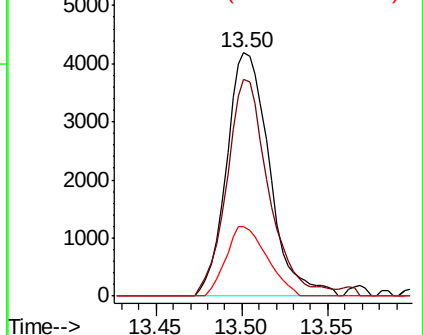


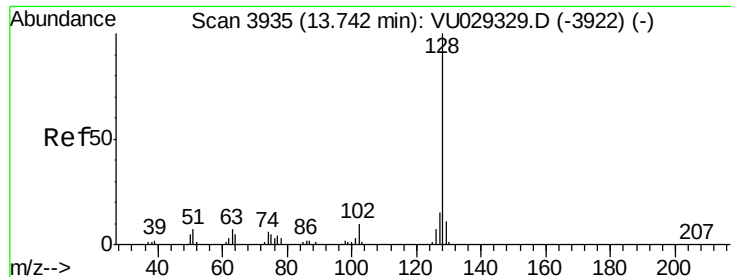
#68
 1,2,4-trichlorobenzene
 Concen: 0.955 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU029328.D
 Acq: 01 Feb 2019 11:44

Tgt Ion:180 Resp: 7284
 Ion Ratio Lower Upper
 180 100
 182 87.3 77.6 116.4
 145 27.3 24.2 36.2



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: 0.834 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD00144

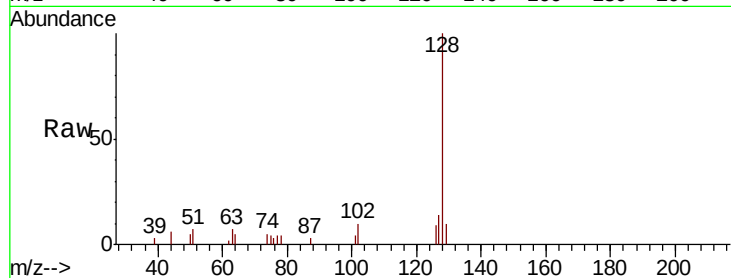
Tgt Ion:128 Resp: 10254

Ion Ratio Lower Upper

128 100

129 6.1 8.9 13.3#

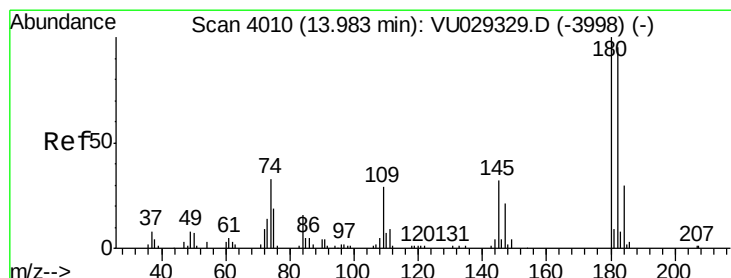
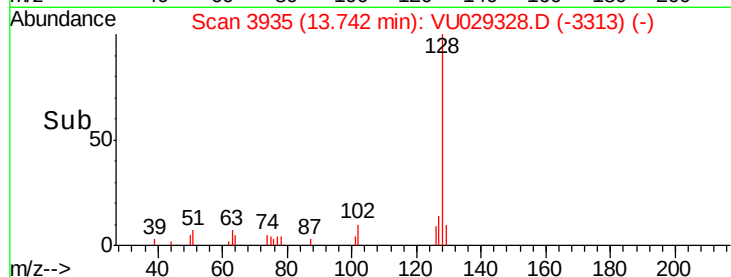
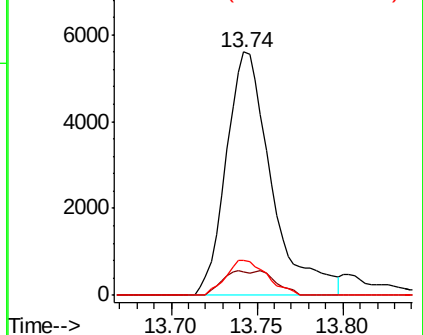
127 13.0 11.5 17.3



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: 0.970 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU029328.D

Acq: 01 Feb 2019 11:44

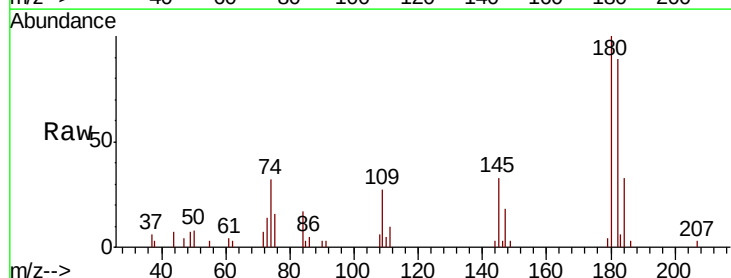
Tgt Ion:180 Resp: 7246

Ion Ratio Lower Upper

180 100

182 84.8 76.1 114.1

145 28.7 25.1 37.7



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

