

Data File : VU029516.D
Acq On : 15 Feb 2019 23:16
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00559

Quant Time: Feb 16 00:19:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Feb 16 00:13:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	194055	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	196491	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	110365	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	59084	4.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.60%
7) Chloroethane-d5	1.68	69	63595	5.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.40%
11) 1,1-Dichloroethene-d2	2.27	63	140194	4.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.00%
20) 2-Butanone-d5	4.20	46	136947	50.52	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.04%
24) Chloroform-d	4.65	84	99418	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
26) 1,2-Dichloroethane-d4	5.31	65	53901	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.34	84	225045	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.33	67	65032	4.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.20%
41) Toluene-d8	7.56	98	230562	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
43) trans-1,3-Dichloropropene-	7.85	79	29074	4.66	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.20%
46) 2-Hexanone-d5	8.31	63	149622	52.11	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.22%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	61476	5.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	103021	5.06	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	81922	4.820 ug/L	98
3) Chloromethane	1.32	50	76298	4.758 ug/L	98
5) Vinyl chloride	1.40	62	90899	4.864 ug/L	89
6) Bromomethane	1.63	94	41529	3.809 ug/L	99
8) Chloroethane	1.70	64	76297	6.270 ug/L	96
9) Trichlorofluoromethane	1.88	101	150221	5.251 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	89011	5.279 ug/L	98
12) 1,1-Dichloroethene	2.28	96	82773	5.183 ug/L	98
13) Acetone	2.33	43	128635	52.233 ug/L	99
14) Carbon disulfide	2.48	76	257837	4.900 ug/L	99
15) Methyl Acetate	2.62	43	35079	5.560 ug/L	96
16) Methylene chloride	2.70	84	108993	6.073 ug/L	95
17) Methyl tert-butyl Ether	3.00	73	211650	5.293 ug/L	99
18) trans-1,2-Dichloroethene	2.98	96	88673	5.207 ug/L	97
19) 1,1-Dichloroethane	3.44	63	156485	6.100 ug/L	96
21) 2-Butanone	4.29	43	164207	53.960 ug/L	99
22) cis-1,2-Dichloroethene	4.22	96	77547	4.951 ug/L	95

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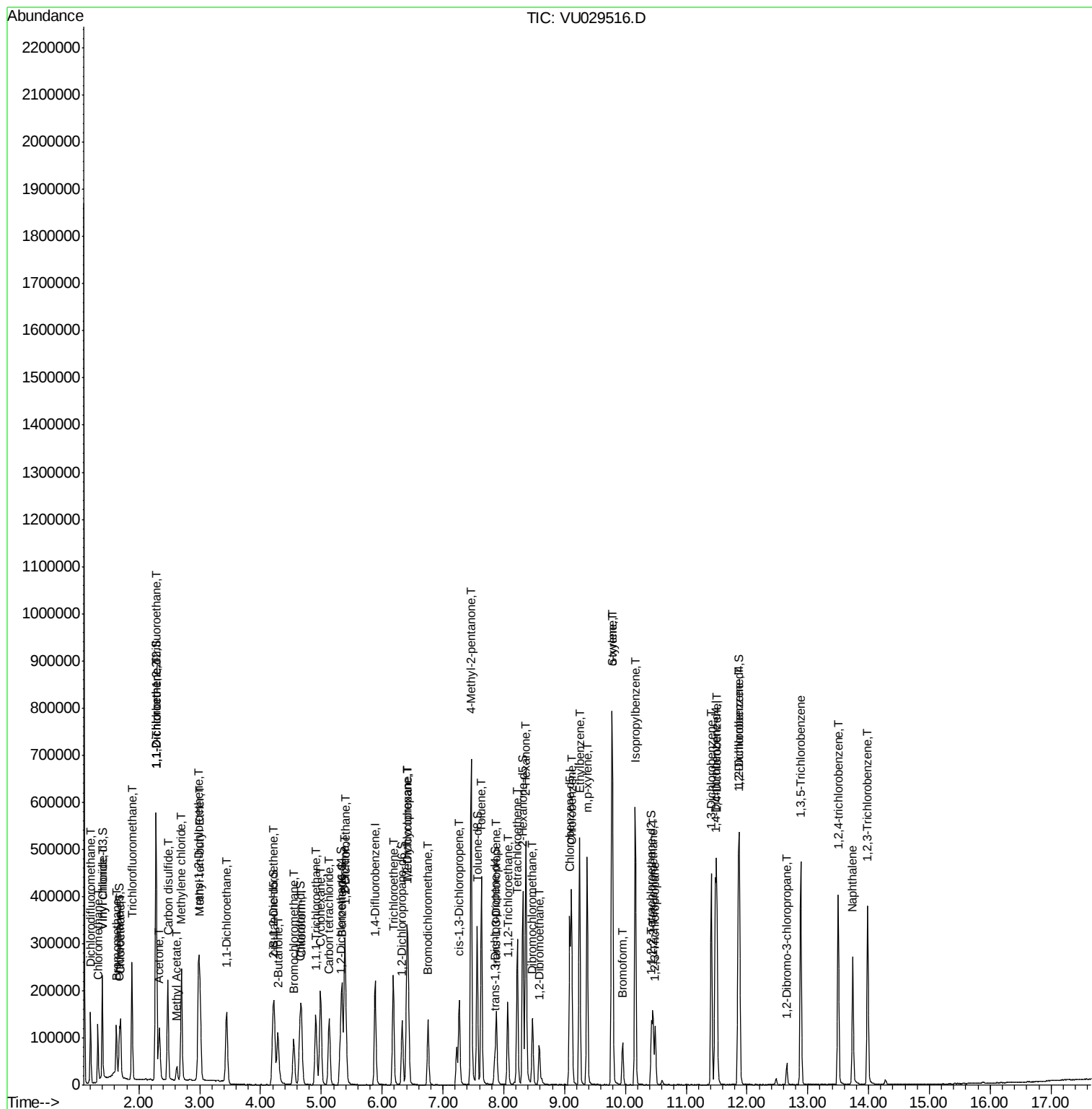
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	36098	5.105	ug/L	94
25) Chloroform	4.67	83	136861	5.332	ug/L	98
27) 1,2-Dichloroethane	5.40	62	82722	5.569	ug/L	98
29) 1,1,1-Trichloroethane	4.91	97	114908	4.728	ug/L	99
30) Cyclohexane	4.99	56	107274	4.606	ug/L	99
31) Carbon tetrachloride	5.13	117	100849	4.593	ug/L	99
33) Benzene	5.39	78	280854	4.856	ug/L	100
34) Trichloroethene	6.18	95	79221	4.872	ug/L	98
35) Methylcyclohexane	6.41	83	129616	4.738	ug/L	99
37) 1,2-Dichloropropane	6.43	63	71676	4.948	ug/L	100
38) Bromodichloromethane	6.76	83	90595	4.733	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	106453	4.669	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	428919	51.365	ug/L	100
42) Toluene	7.63	91	327245	5.041	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	85868	4.586	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	57854	5.214	ug/L	99
47) Tetrachloroethene	8.22	164	73457	4.931	ug/L	98
48) 2-Hexanone	8.36	43	312933	51.418	ug/L	100
49) Dibromochloromethane	8.48	129	70871	4.739	ug/L	99
50) 1,2-Dibromoethane	8.58	107	55484	5.052	ug/L	91
51) Chlorobenzene	9.12	112	221879	4.970	ug/L	98
52) Ethylbenzene	9.25	91	369534	5.027	ug/L	100
53) m,p-xylene	9.37	106	147593	5.035	ug/L	97
54) o-xylene	9.77	106	145414	5.054	ug/L	96
55) Styrene	9.79	104	242136	5.069	ug/L	99
56) Isopropylbenzene	10.16	105	386563	5.094	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	71828	5.304	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	48959	5.269	ug/L	97
61) Bromoform	9.95	173	41517	4.444	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	191982	4.910	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	193104	4.946	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	188800	5.125	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	11654	5.057	ug/L	91
67) 1,3,5-Trichlorobenzene	12.88	180	156696	4.830	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	135920	4.974	ug/L	98
69) Naphthalene	13.74	128	235836	4.998	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	127681	4.887	ug/L	97

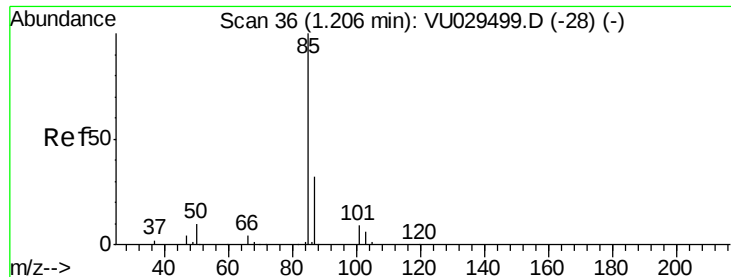
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.820 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

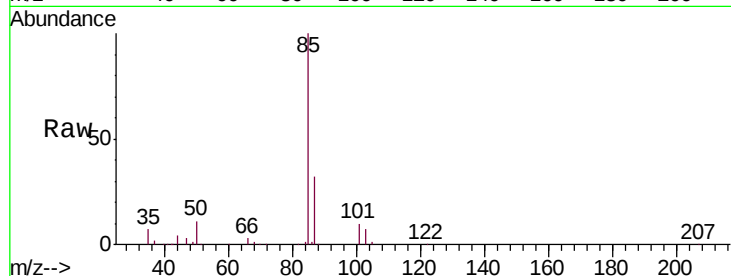
VSTD00559

Tgt Ion: 85 Resp: 81922

Ion Ratio Lower Upper

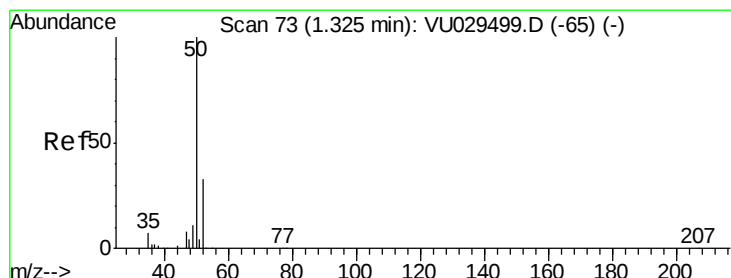
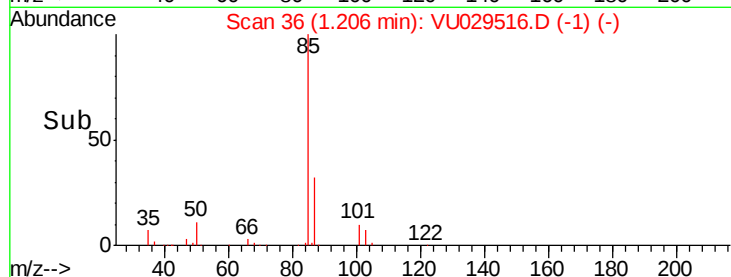
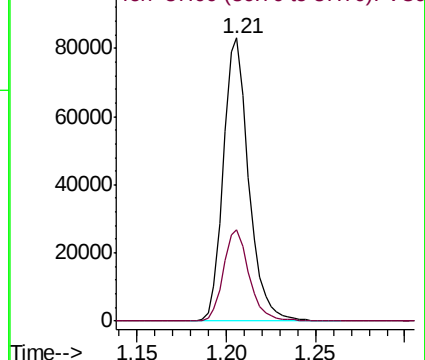
85 100

87 32.6 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.758 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU029516.D

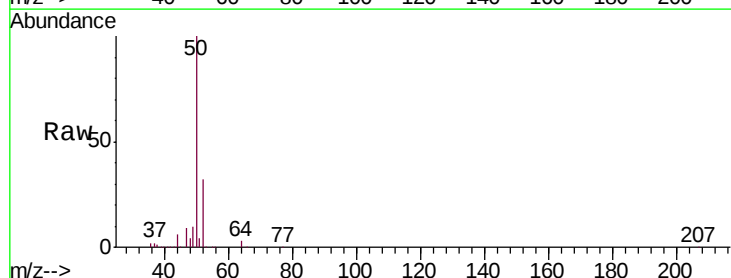
Acq: 15 Feb 2019 23:16

Tgt Ion: 50 Resp: 76298

Ion Ratio Lower Upper

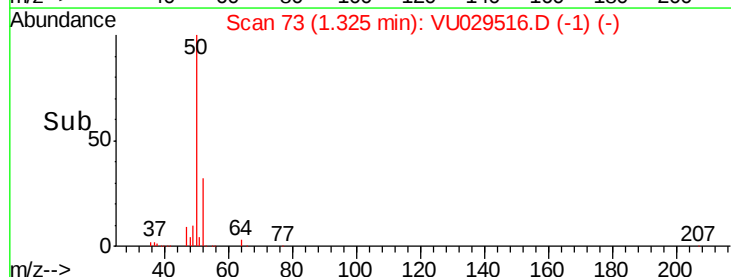
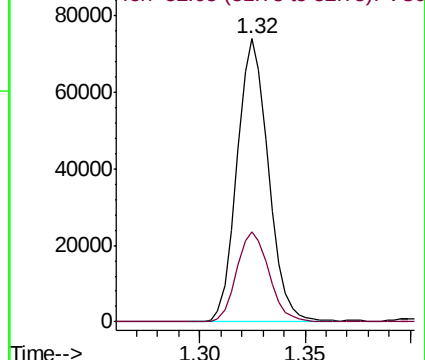
50 100

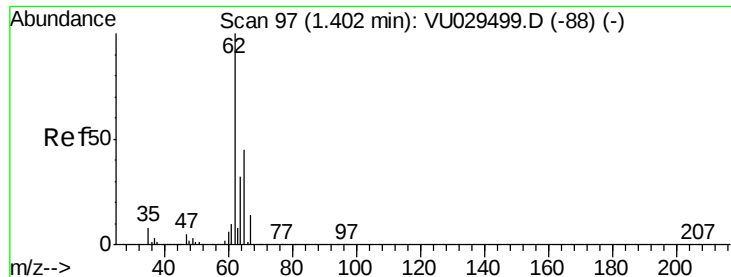
52 32.0 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.864 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

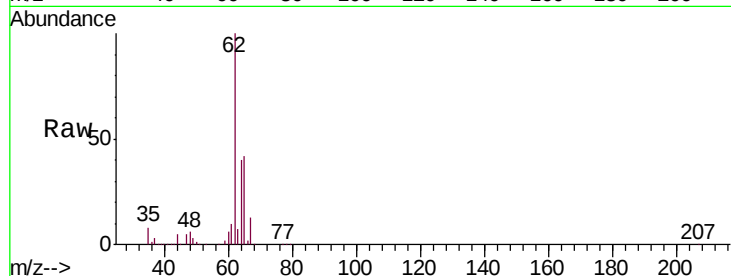
VSTD00559

Tgt Ion: 62 Resp: 90899

Ion Ratio Lower Upper

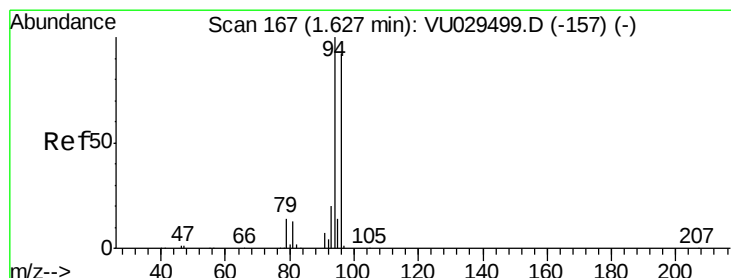
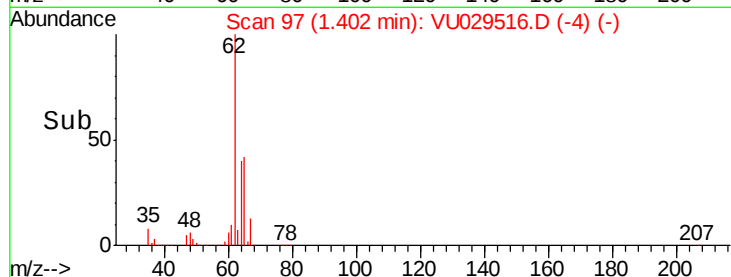
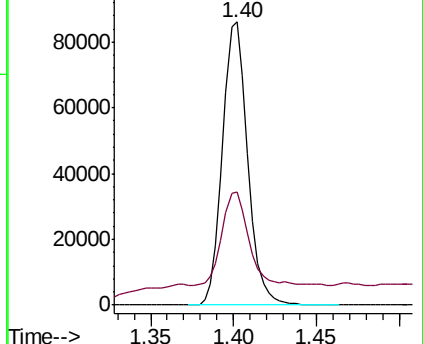
62 100

64 39.8 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU029499.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU029499.D (-88) (-)



#6

Bromomethane

Concen: 3.809 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU029516.D

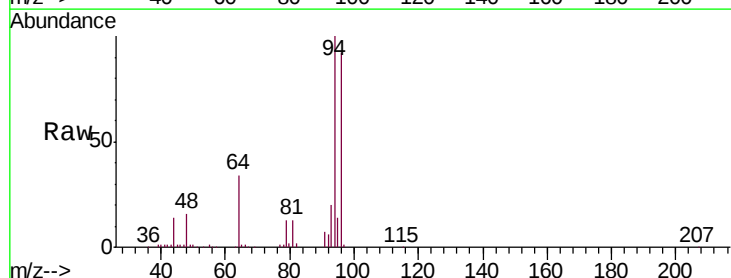
Acq: 15 Feb 2019 23:16

Tgt Ion: 94 Resp: 41529

Ion Ratio Lower Upper

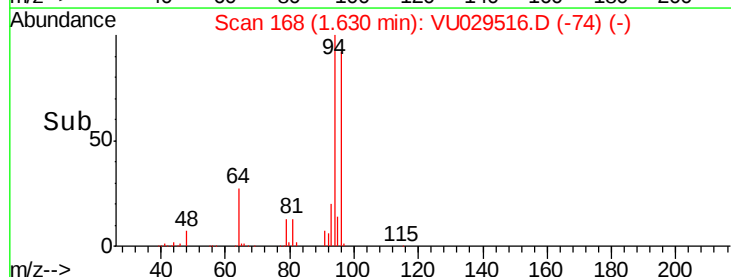
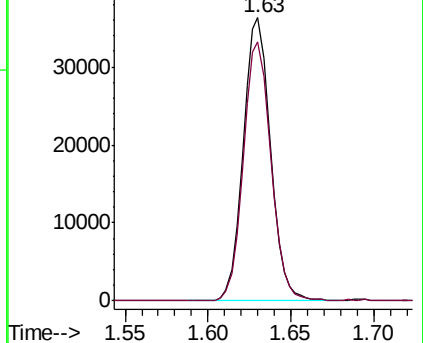
94 100

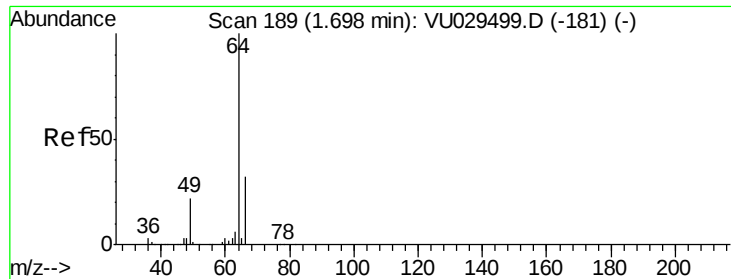
96 91.7 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VU029499.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU029499.D (-157) (-)





#8

Chloroethane

Concen: 6.270 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

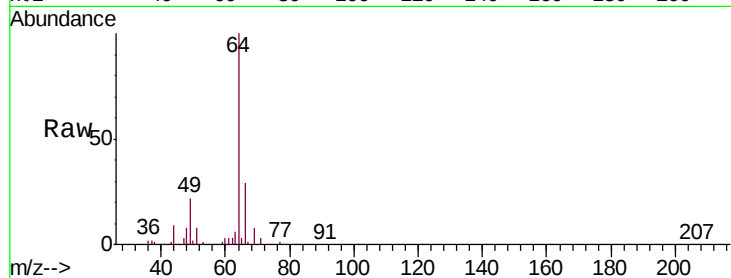
VSTD00559

Tgt Ion: 64 Resp: 76297

Ion Ratio Lower Upper

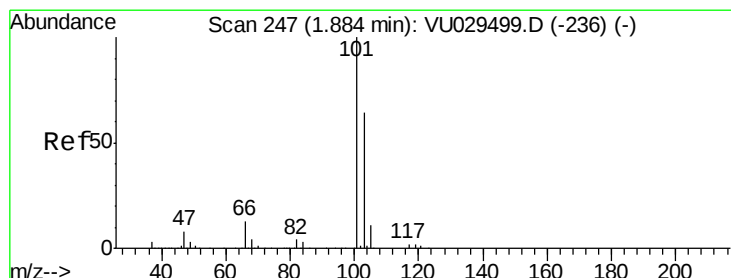
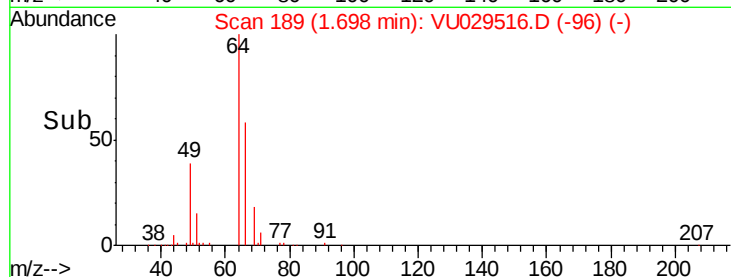
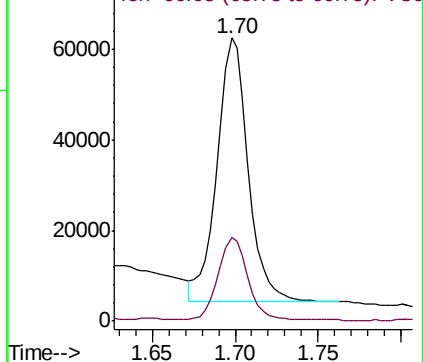
64 100

66 29.4 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 5.251 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU029516.D

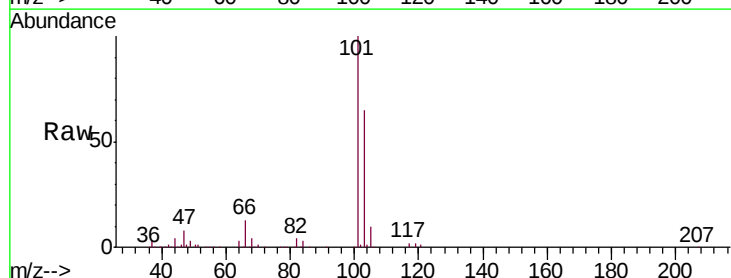
Acq: 15 Feb 2019 23:16

Tgt Ion: 101 Resp: 150221

Ion Ratio Lower Upper

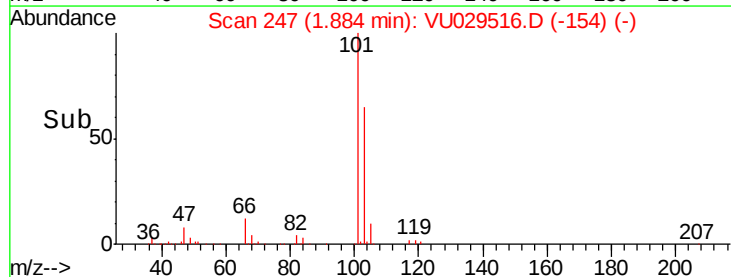
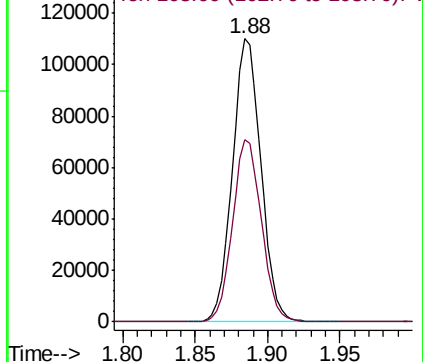
101 100

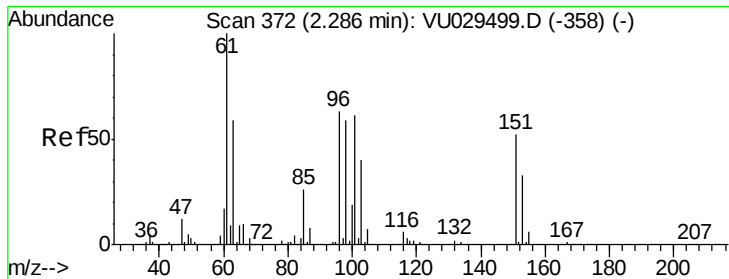
103 64.9 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 5.279 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

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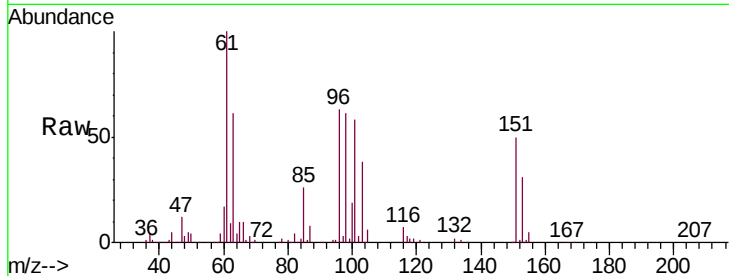
Tgt Ion: 101 Resp: 89011

Ion Ratio Lower Upper

101 100

85 42.5 35.1 52.7

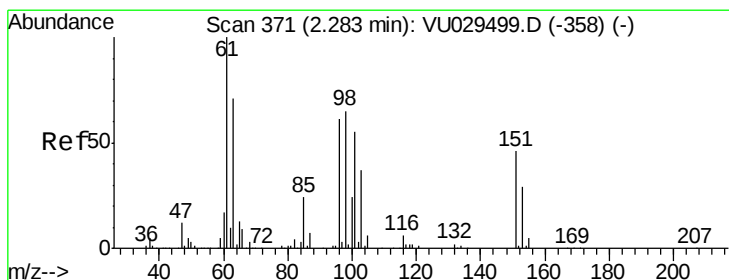
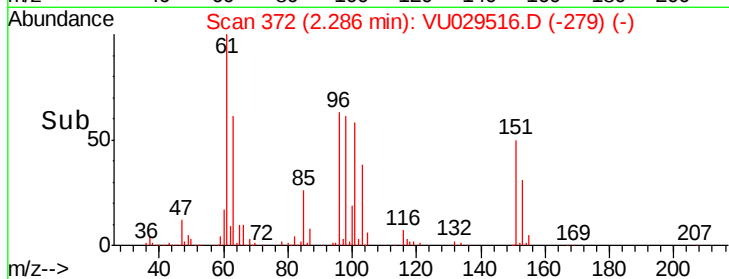
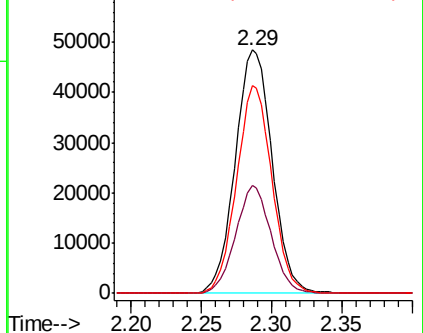
151 81.7 67.0 100.6



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: 5.183 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

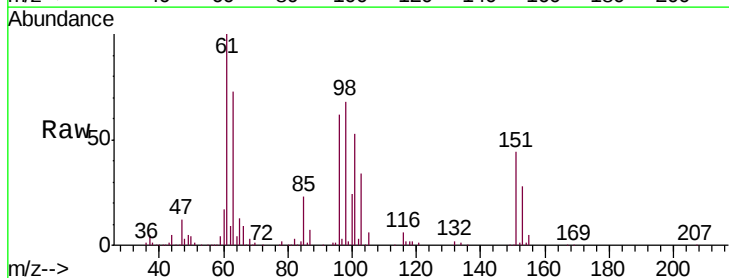
Tgt Ion: 96 Resp: 82773

Ion Ratio Lower Upper

96 100

61 161.4 115.1 213.7

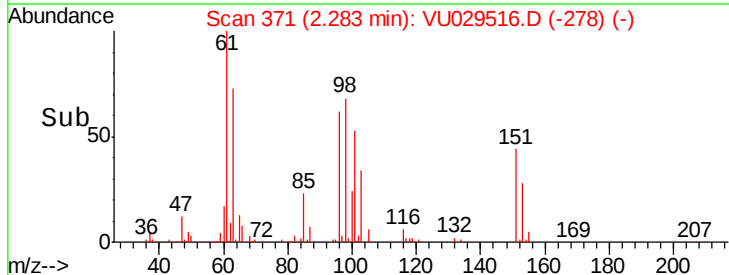
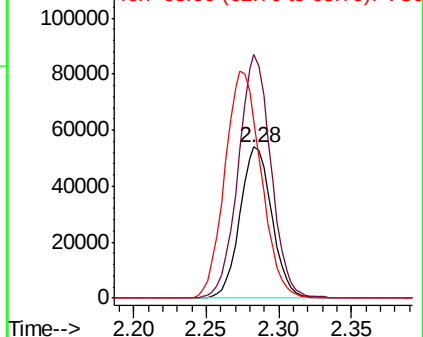
63 117.1 83.5 155.1

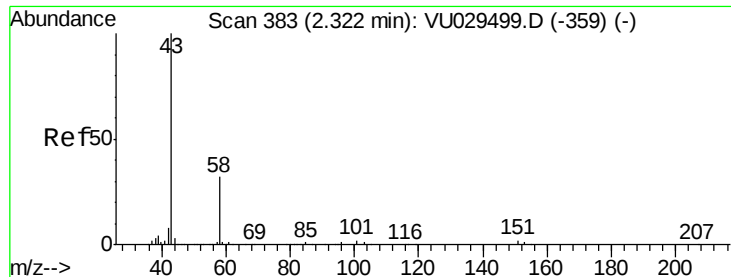


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 52.233 ug/L

RT: 2.33 min Scan# 387

Delta R.T. 0.01 min

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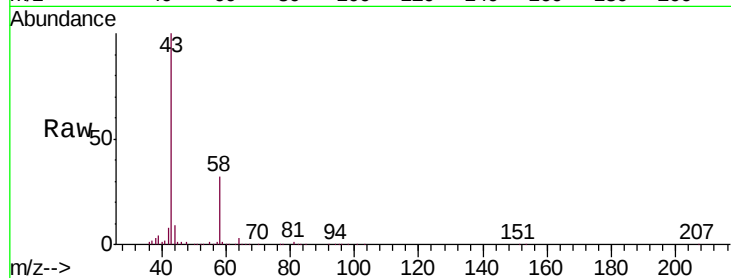
VSTD00559

Tgt Ion: 43 Resp: 128635

Ion Ratio Lower Upper

43 100

58 33.1 0.0 65.0



Abundance Ion 43.05 (42.75 to 43.75): VU029499.D (-359) (-)

Ion 58.05 (57.75 to 58.75): VU029499.D (-359) (-)

2.33

80000

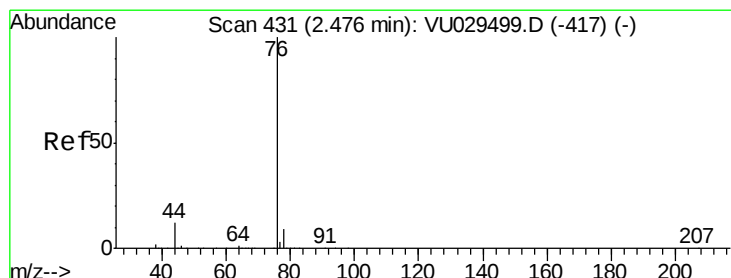
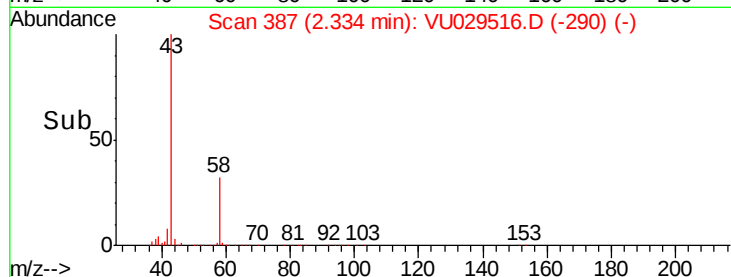
60000

40000

20000

0

Time--> 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 4.900 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU029516.D

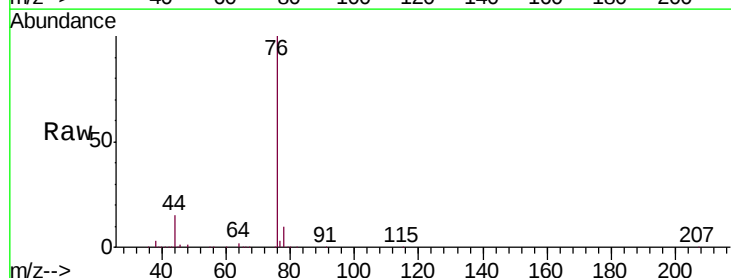
Acq: 15 Feb 2019 23:16

Tgt Ion: 76 Resp: 257837

Ion Ratio Lower Upper

76 100

78 9.6 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU029499.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU029499.D (-417) (-)

2.48

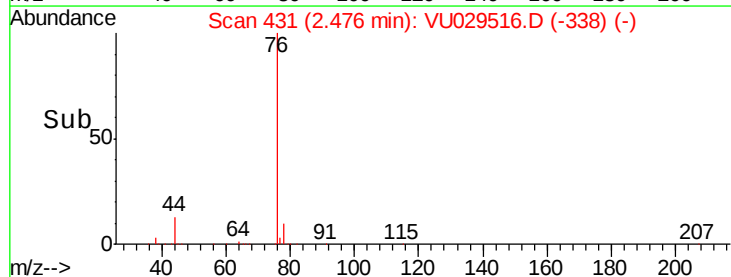
150000

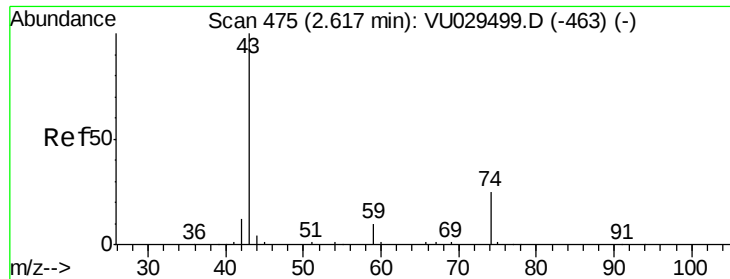
100000

50000

0

Time--> 2.40 2.45 2.50 2.55

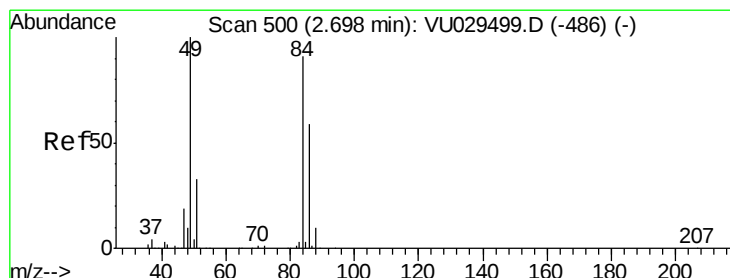
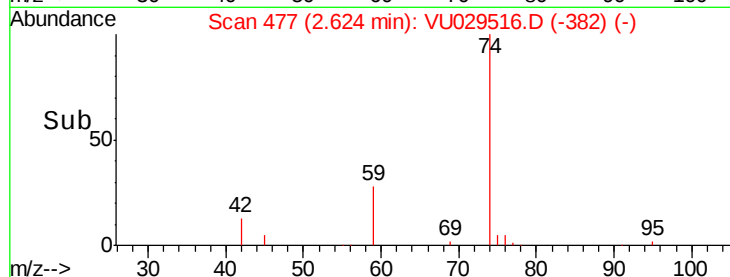
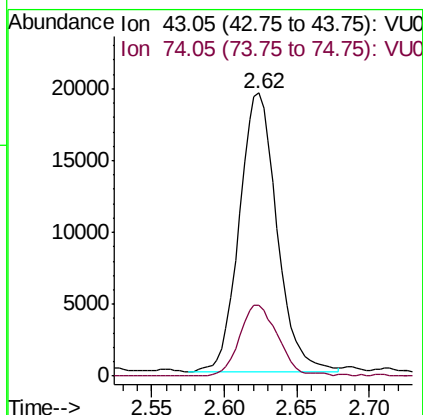
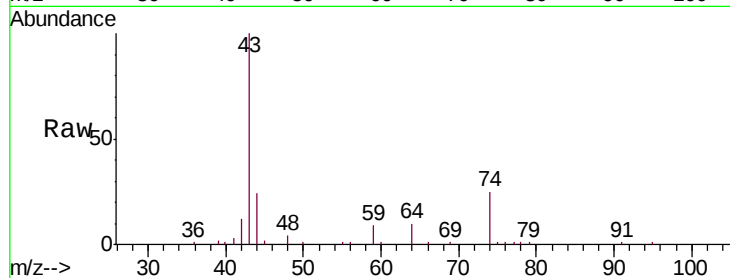




#15
Methyl Acetate
Concen: 5.560 ug/L
RT: 2.62 min Scan# 477
Delta R.T. 0.01 min
Lab File: VU029516.D
Acq: 15 Feb 2019 23:16

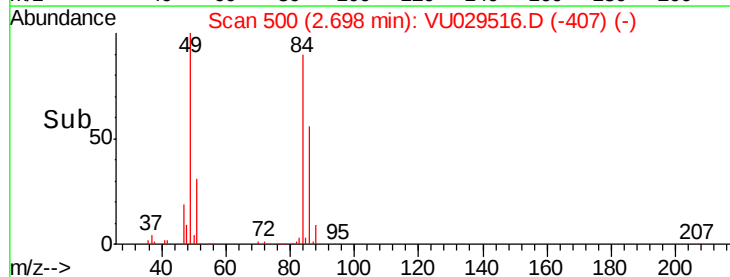
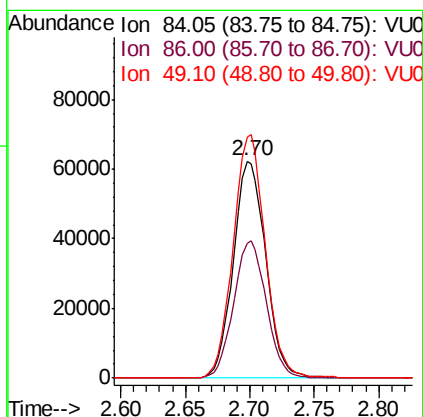
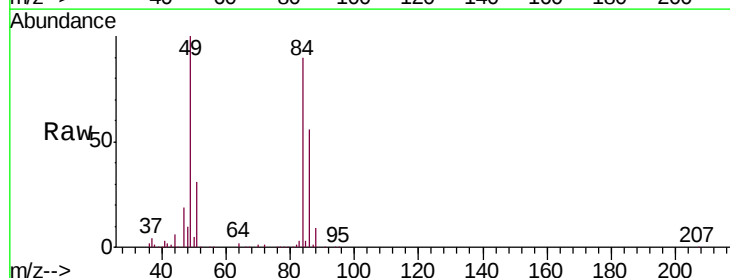
Instrument :
MSVOA_U
ClientSampleId :
VSTD00559

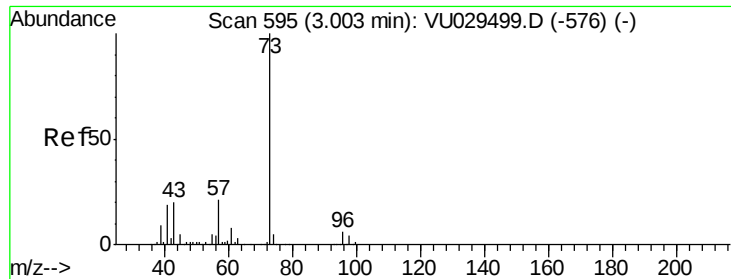
Tgt Ion: 43 Resp: 35079
Ion Ratio Lower Upper
43 100
74 25.6 22.3 33.5



#16
Methylene chloride
Concen: 6.073 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU029516.D
Acq: 15 Feb 2019 23:16

Tgt Ion: 84 Resp: 108993
Ion Ratio Lower Upper
84 100
86 62.3 45.1 83.9
49 110.8 81.8 151.8





#17

Methyl tert-butyl Ether

Concen: 5.293 ug/L

RT: 3.00 min Scan# 595

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD00559

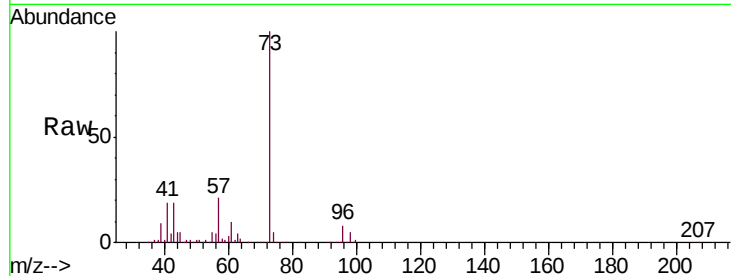
Tgt Ion: 73 Resp: 211650

Ion Ratio Lower Upper

73 100

43 19.2 16.0 24.0

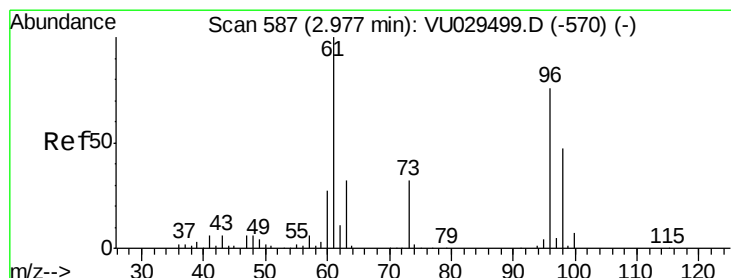
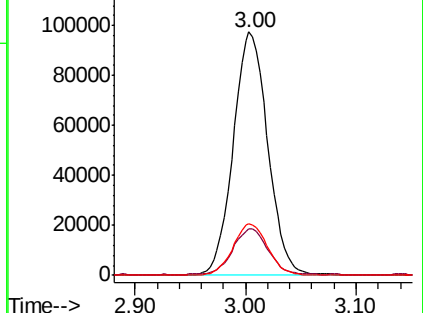
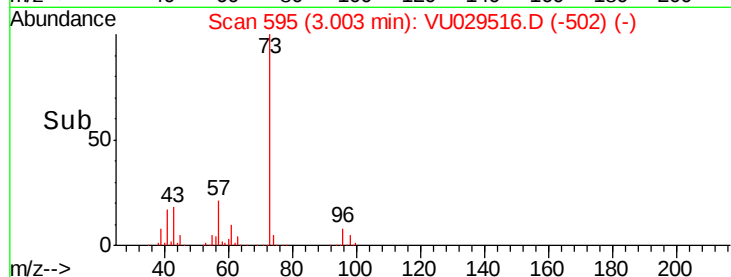
57 21.4 16.9 25.3



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: 5.207 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

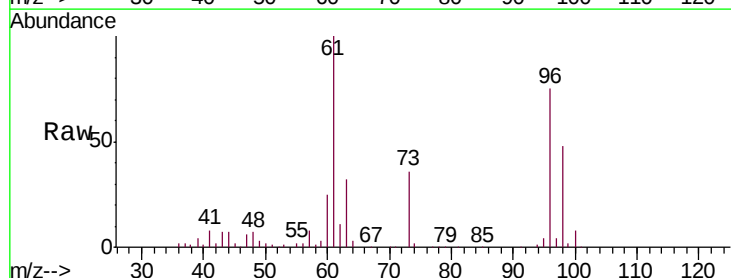
Tgt Ion: 96 Resp: 88673

Ion Ratio Lower Upper

96 100

61 133.2 95.4 177.2

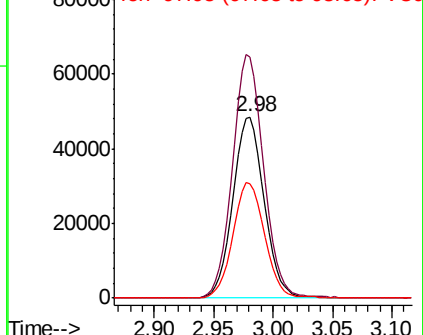
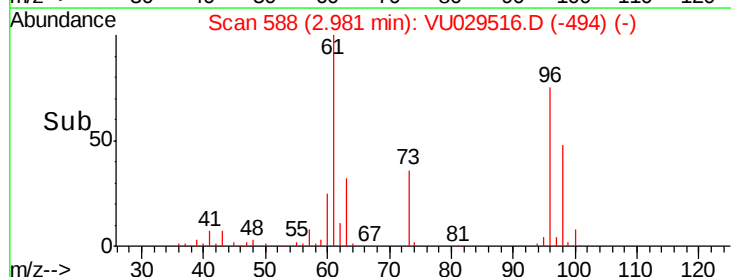
98 63.5 45.8 85.2

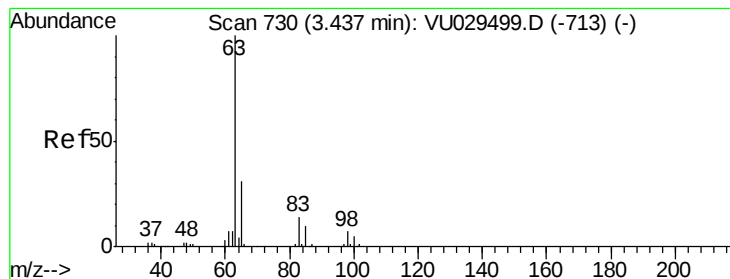


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 6.100 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD00559

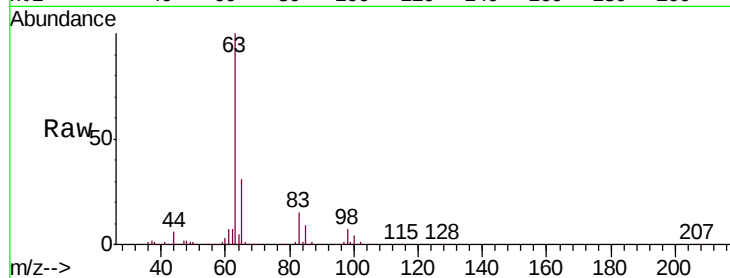
Tgt Ion: 63 Resp: 156485

Ion Ratio Lower Upper

63 100

65 30.8 23.5 43.7

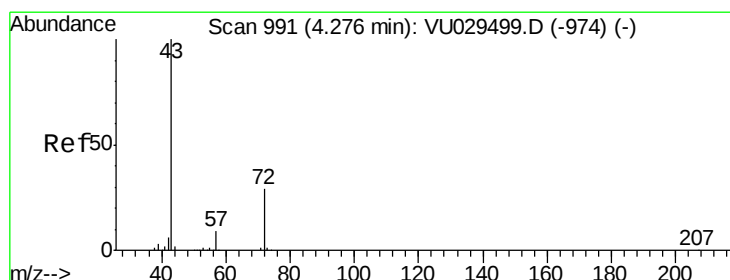
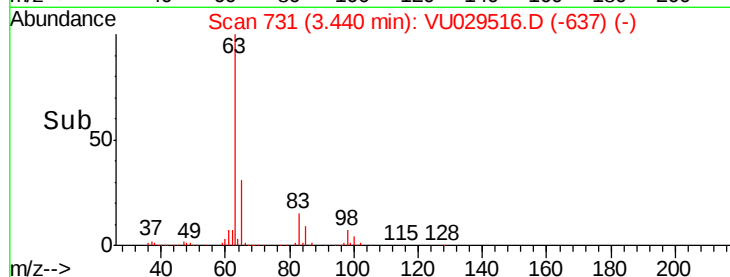
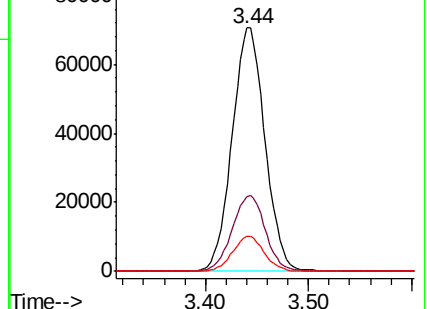
83 14.5 10.3 19.1



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: 53.960 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.01 min

Lab File: VU029516.D

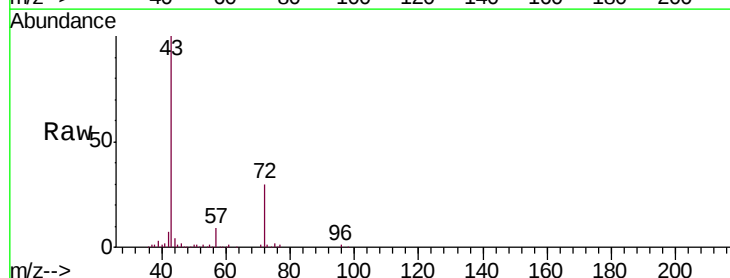
Acq: 15 Feb 2019 23:16

Tgt Ion: 43 Resp: 164207

Ion Ratio Lower Upper

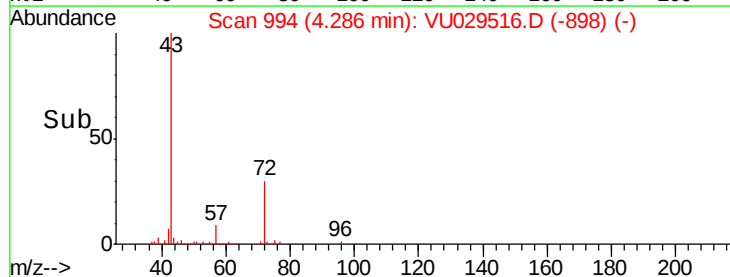
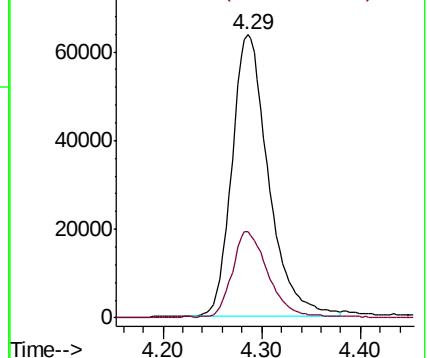
43 100

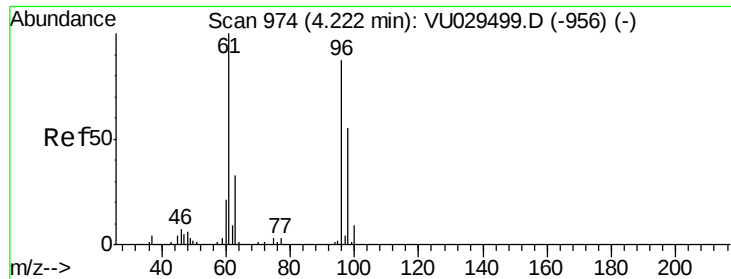
72 29.0 14.7 44.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0



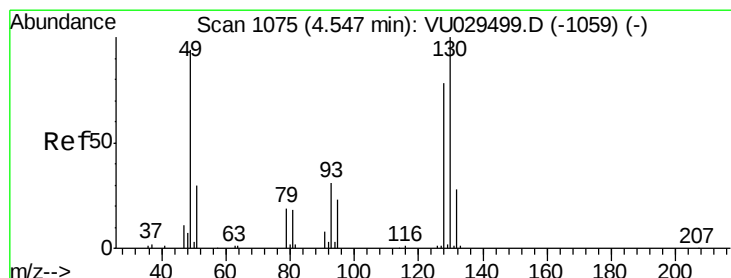
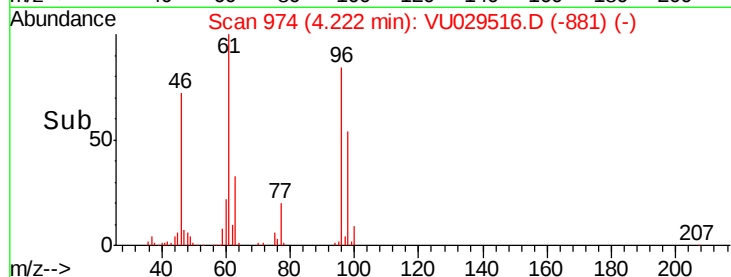
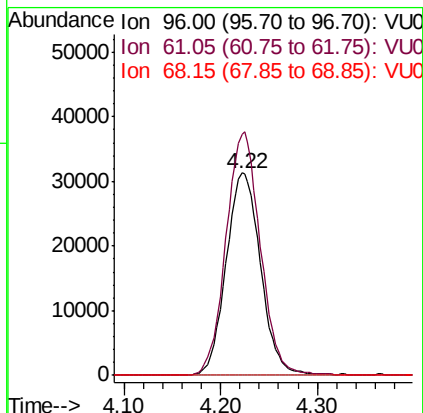
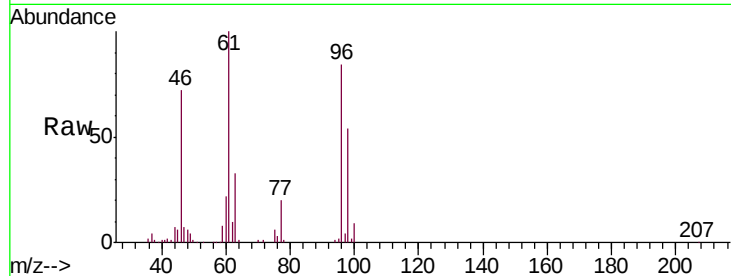


#22

cis-1,2-Dichloroethene
 Concen: 4.951 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00559

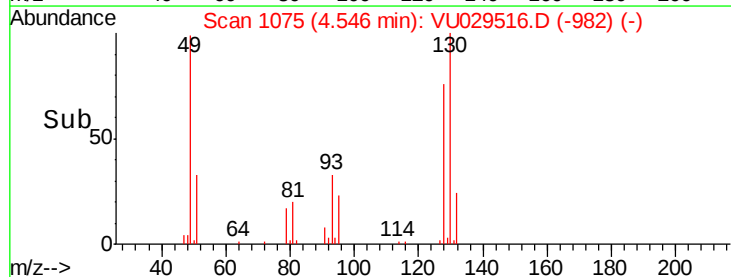
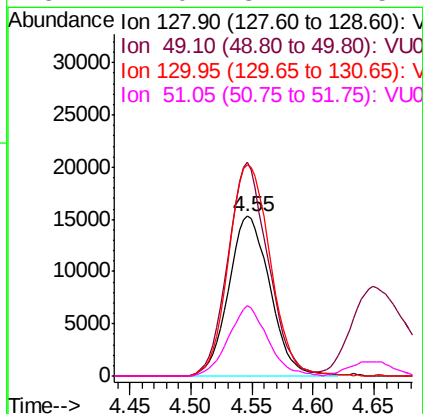
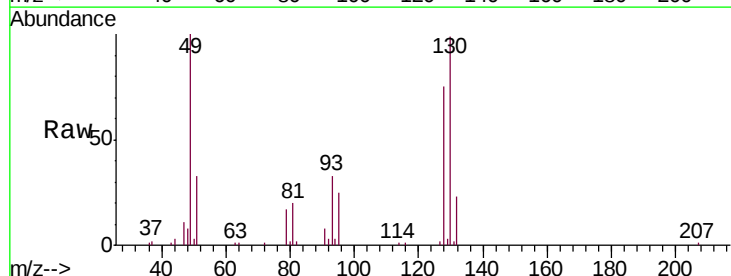
Tgt Ion: 96 Resp: 77547
 Ion Ratio Lower Upper
 96 100
 61 119.3 79.9 148.5
 68 0.0 0.0 0.0

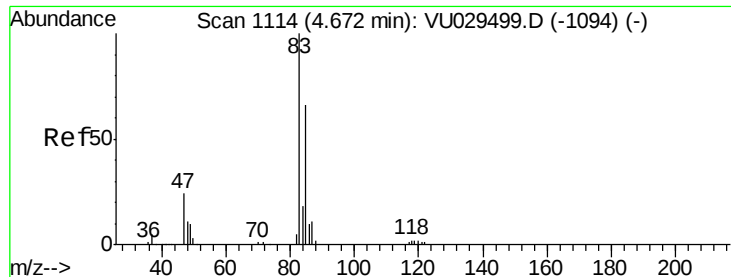


#23

Bromochloromethane
 Concen: 5.105 ug/L
 RT: 4.55 min Scan# 1075
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

Tgt Ion: 128 Resp: 36098
 Ion Ratio Lower Upper
 128 100
 49 133.7 89.0 165.4
 130 132.3 88.0 163.4
 51 44.0 32.1 48.1





#25

Chloroform

Concen: 5.332 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

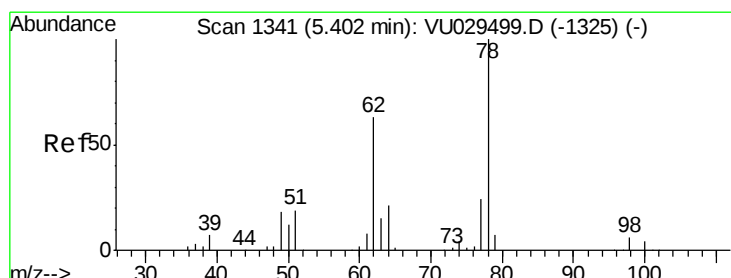
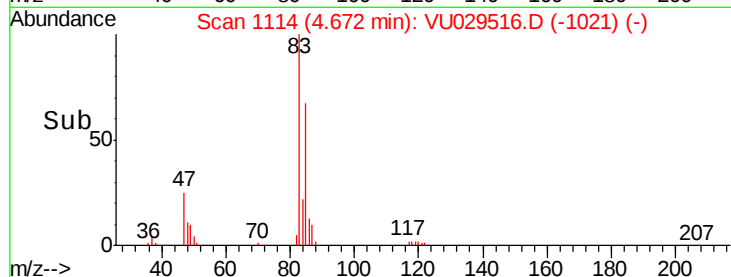
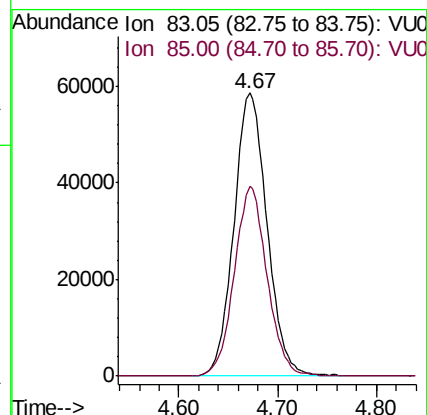
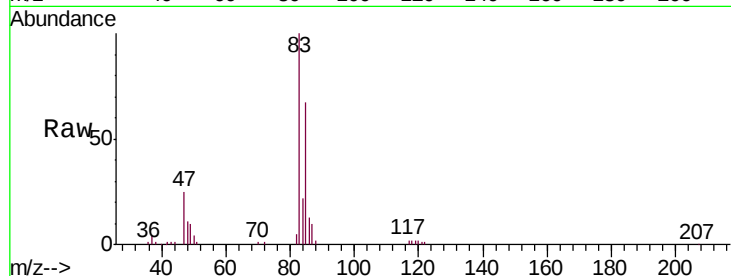
VSTD00559

Tgt Ion: 83 Resp: 136861

Ion Ratio Lower Upper

83 100

85 66.9 47.8 88.8



#27

1,2-Dichloroethane

Concen: 5.569 ug/L

RT: 5.40 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU029516.D

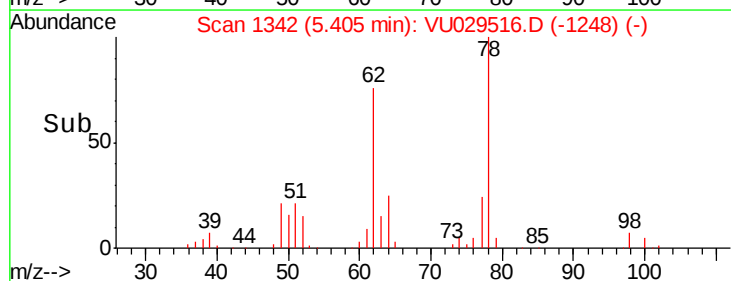
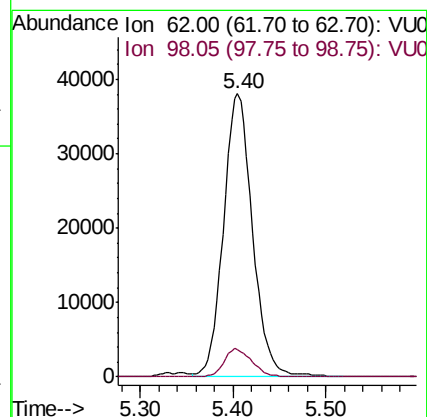
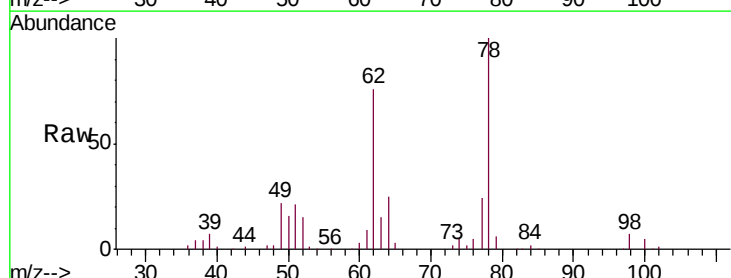
Acq: 15 Feb 2019 23:16

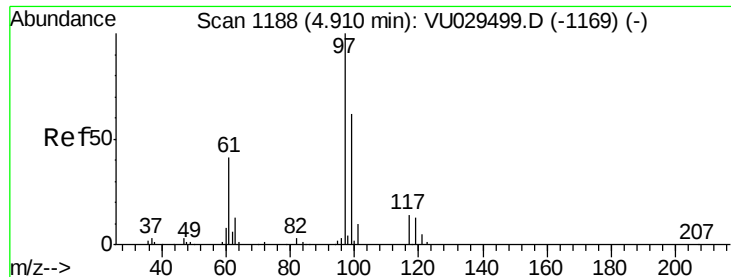
Tgt Ion: 62 Resp: 82722

Ion Ratio Lower Upper

62 100

98 9.8 8.4 12.6

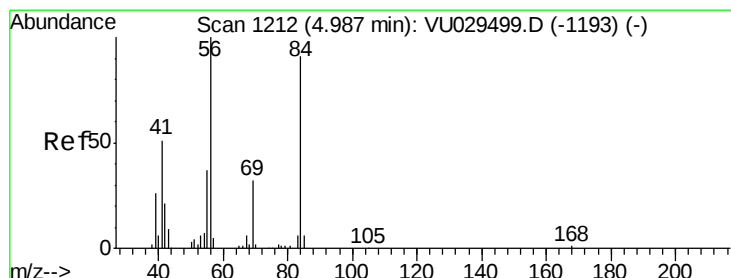
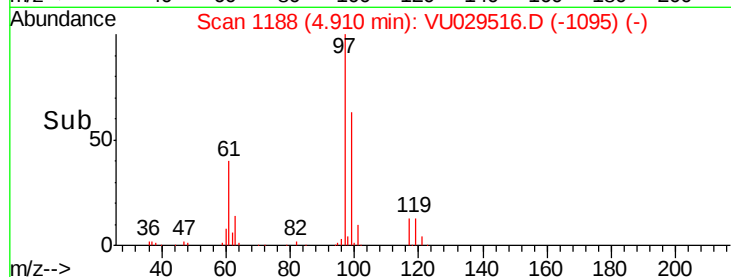
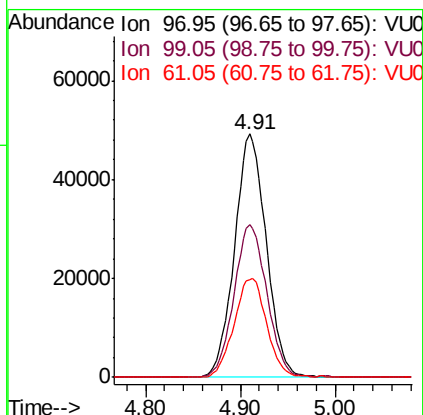
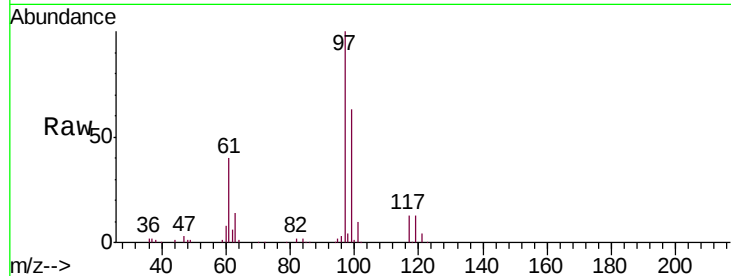




#29
 1,1,1-Trichloroethane
 Concen: 4.728 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

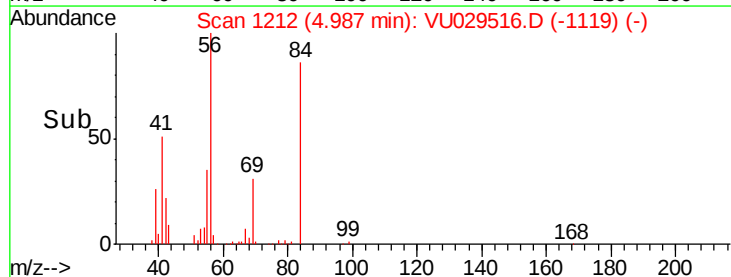
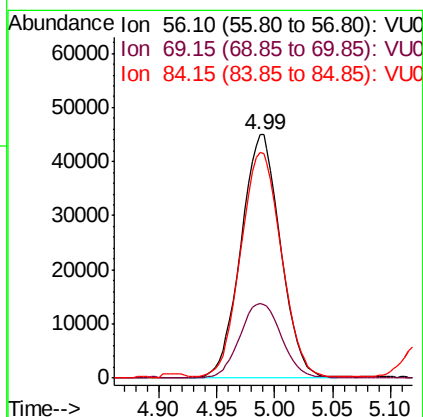
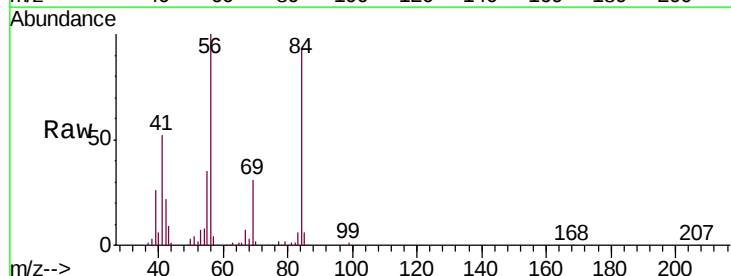
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00559

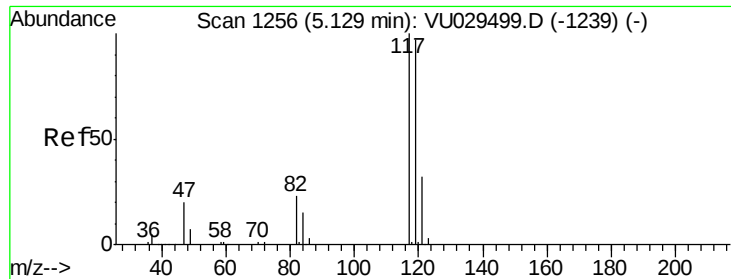
Tgt Ion: 97 Resp: 114908
 Ion Ratio Lower Upper
 97 100
 99 64.7 52.2 78.2
 61 41.6 32.0 48.0



#30
 Cyclohexane
 Concen: 4.606 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

Tgt Ion: 56 Resp: 107274
 Ion Ratio Lower Upper
 56 100
 69 32.3 25.8 38.6
 84 94.5 75.0 112.6

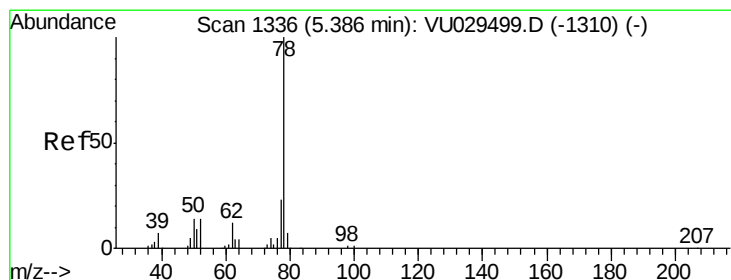
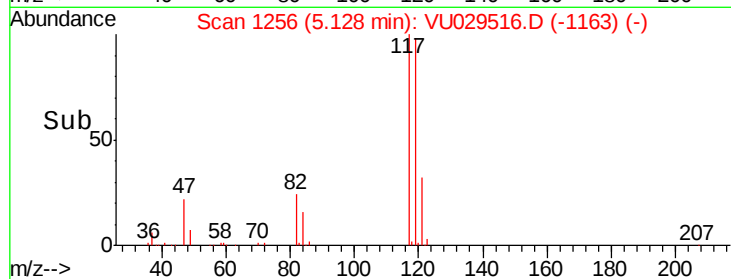
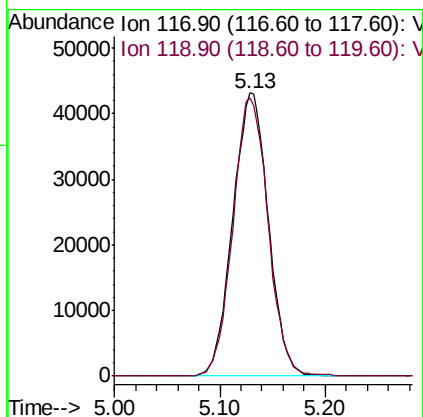
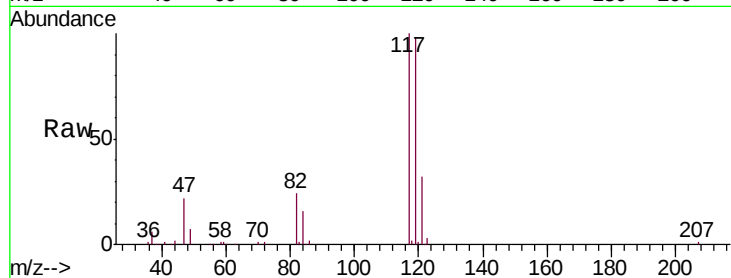




#31
Carbon tetrachloride
Concen: 4.593 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VU029516.D
Acq: 15 Feb 2019 23:16

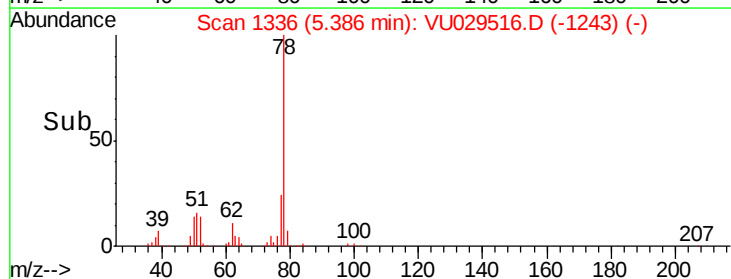
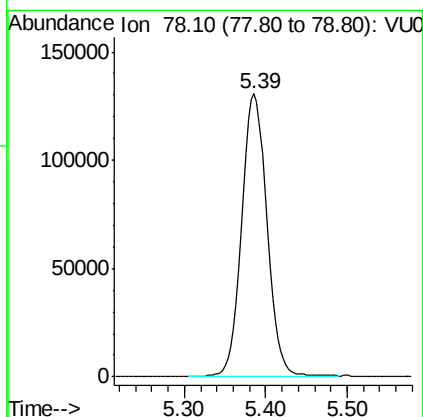
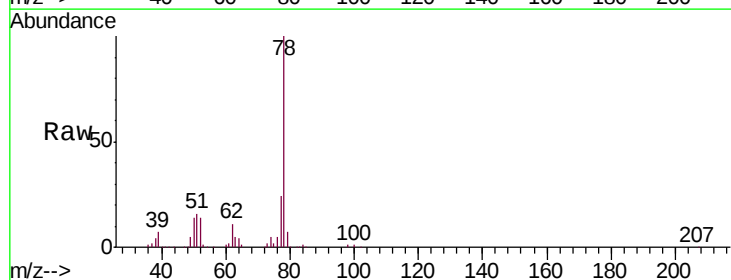
Instrument :
MSVOA_U
ClientSampleId :
VSTD00559

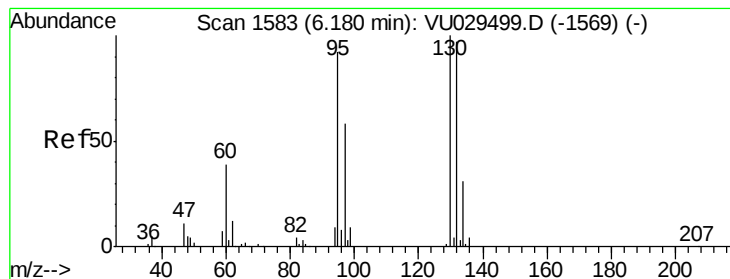
Tgt Ion:117 Resp: 100849
Ion Ratio Lower Upper
117 100
119 97.1 78.1 117.1



#33
Benzene
Concen: 4.856 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU029516.D
Acq: 15 Feb 2019 23:16

Tgt Ion: 78 Resp: 280854





#34

Trichloroethene

Concen: 4.872 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD00559

Tgt Ion: 95 Resp: 79221

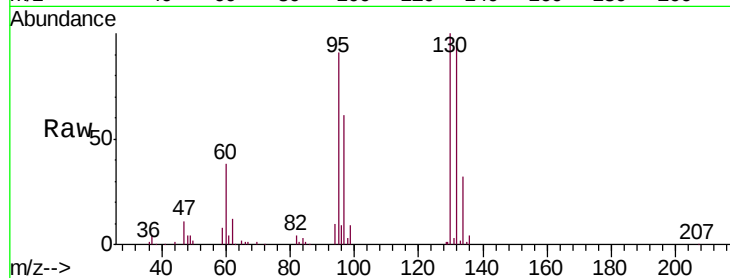
Ion Ratio Lower Upper

95 100

97 66.8 46.3 86.1

132 104.8 72.9 135.3

130 109.4 79.2 147.0

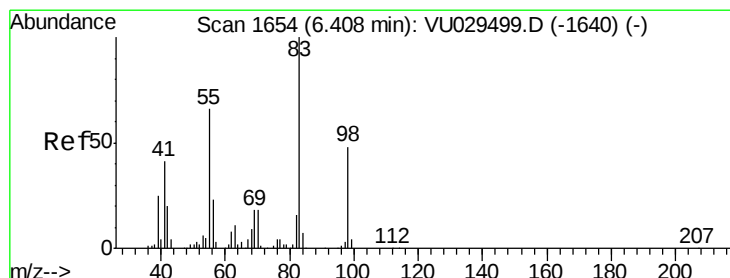
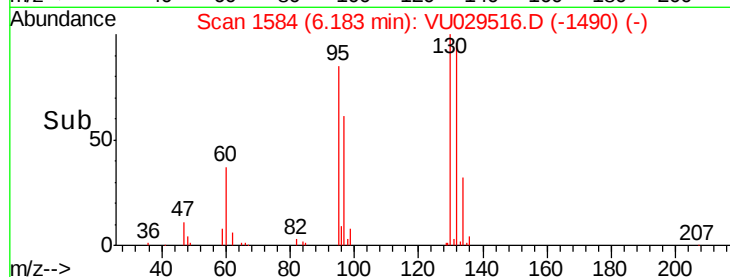
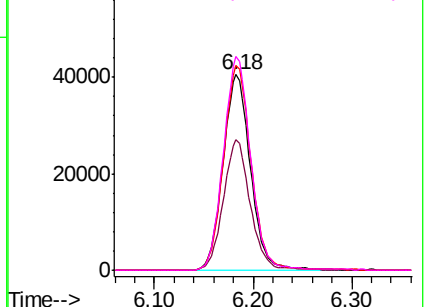


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.738 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

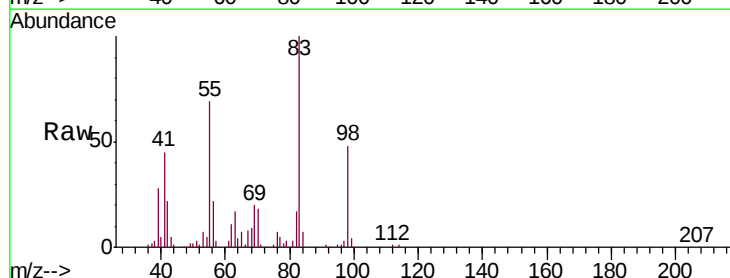
Tgt Ion: 83 Resp: 129616

Ion Ratio Lower Upper

83 100

55 69.1 55.9 83.9

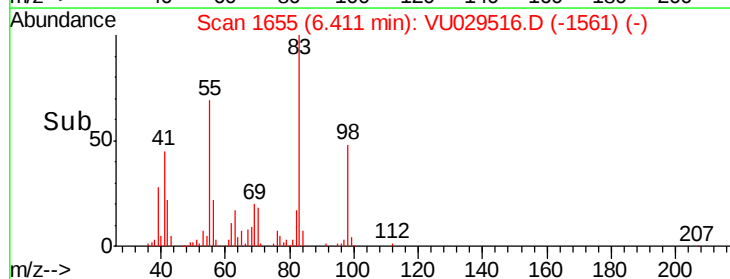
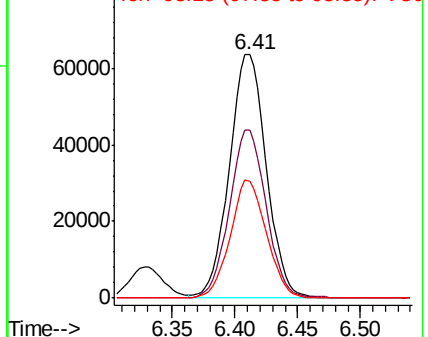
98 47.6 38.6 57.8

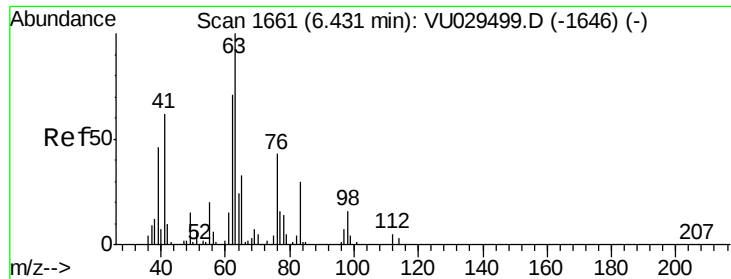


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

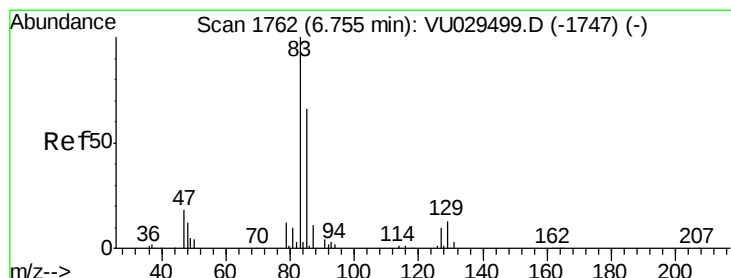
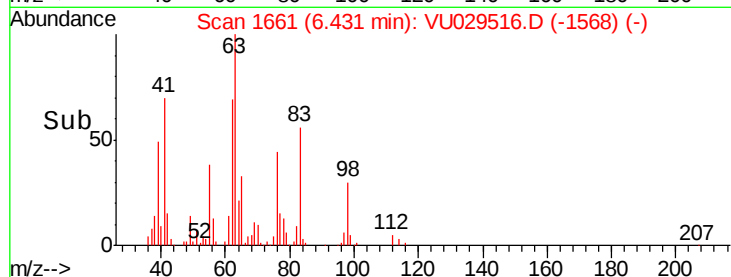
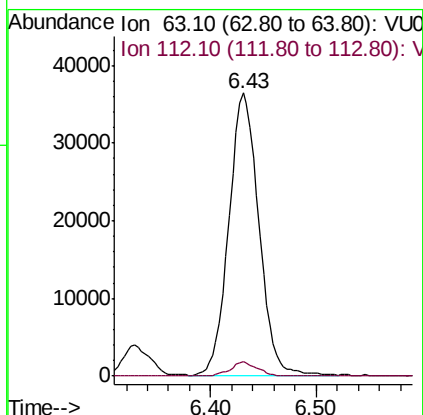
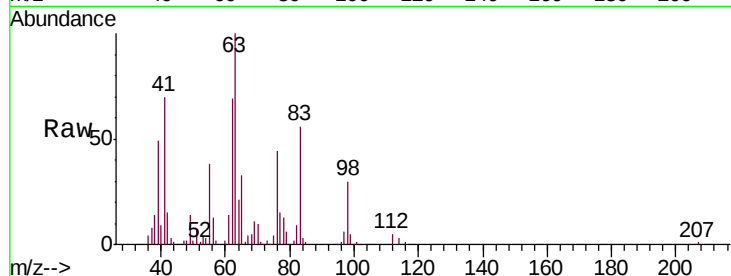




#37
 1,2-Dichloropropane
 Concen: 4.948 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

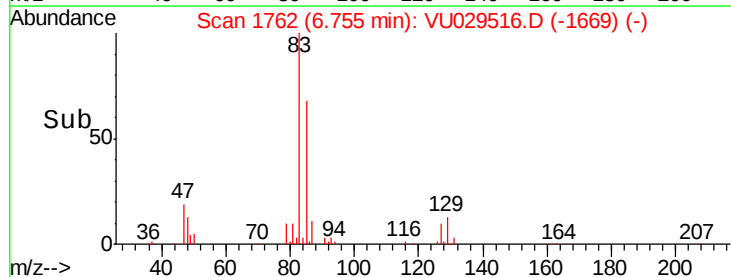
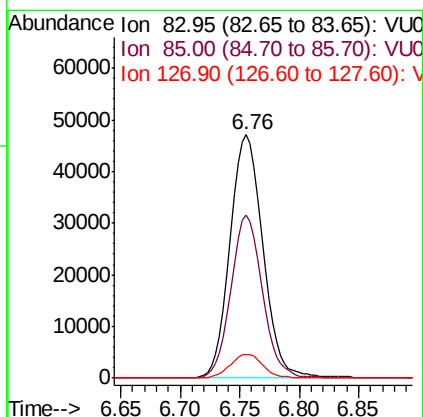
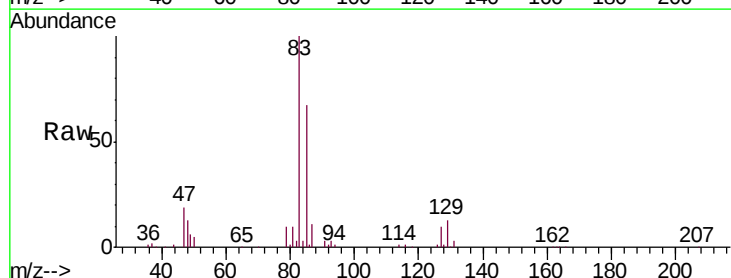
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00559

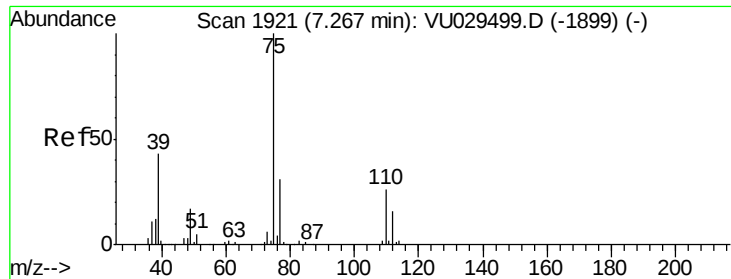
Tgt Ion: 63 Resp: 71676
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.5 5.3



#38
 Bromodichloromethane
 Concen: 4.733 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

Tgt Ion: 83 Resp: 90595
 Ion Ratio Lower Upper
 83 100
 85 67.1 45.1 83.7
 127 9.8 7.8 11.8

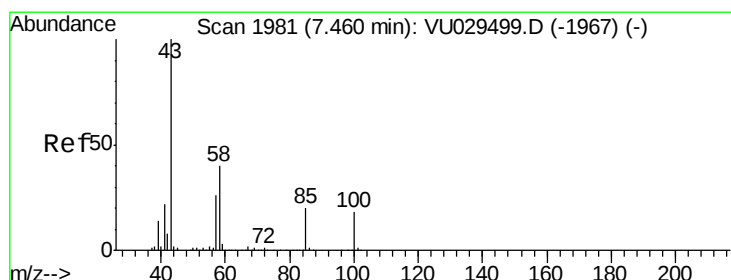
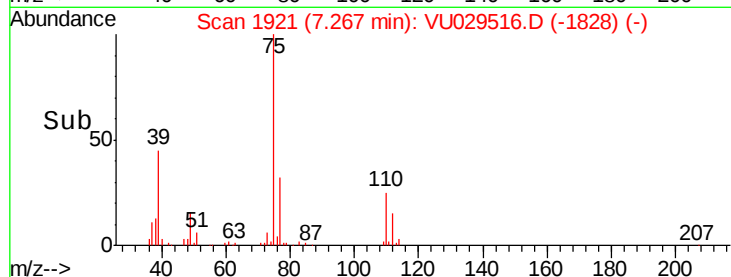
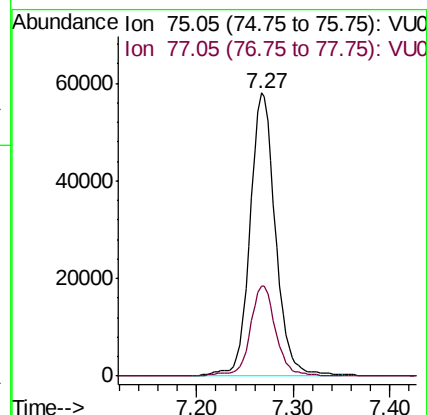
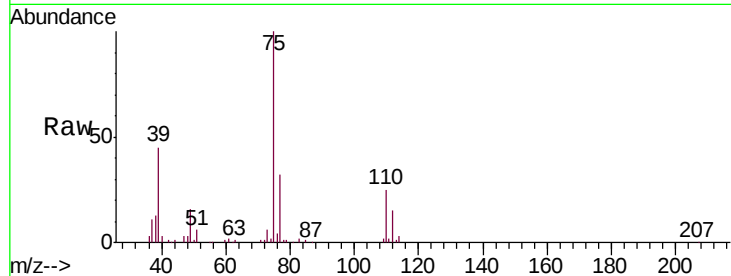




#39
 cis-1,3-Dichloropropene
 Concen: 4.669 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

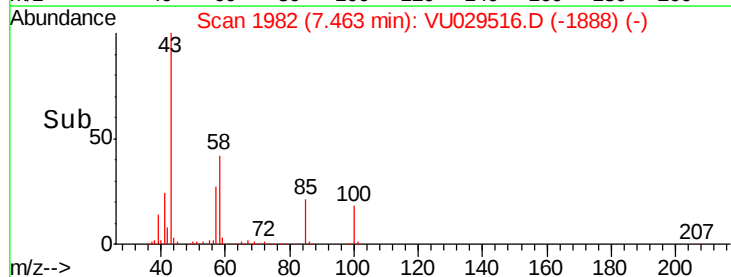
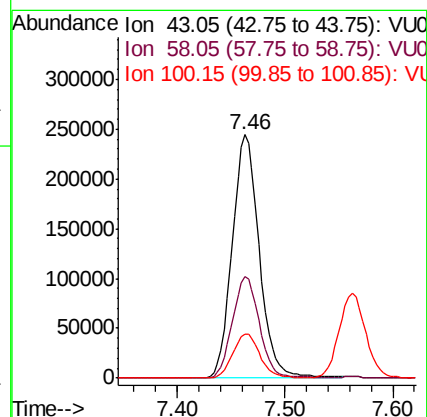
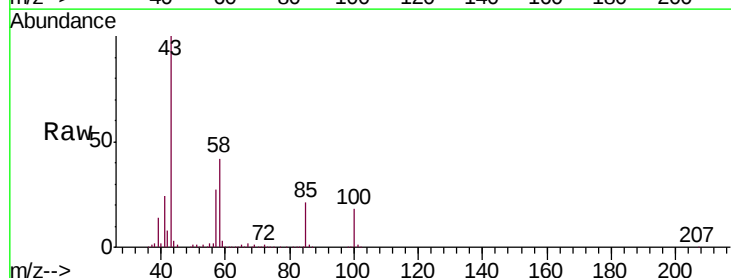
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00559

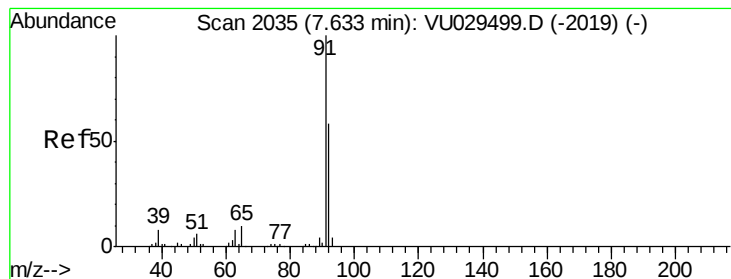
Tgt Ion: 75 Resp: 106453
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 51.365 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

Tgt Ion: 43 Resp: 428919
 Ion Ratio Lower Upper
 43 100
 58 41.8 33.4 50.2
 100 18.2 14.4 21.6





#42

Toluene

Concen: 5.041 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

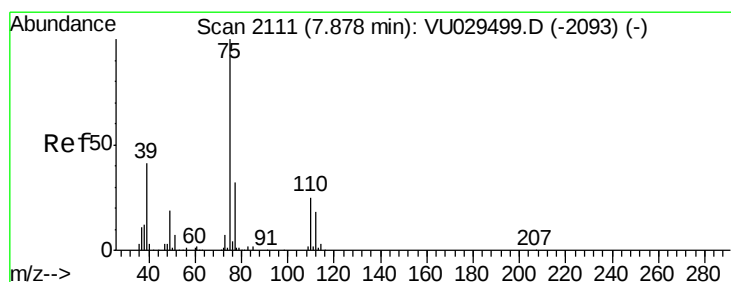
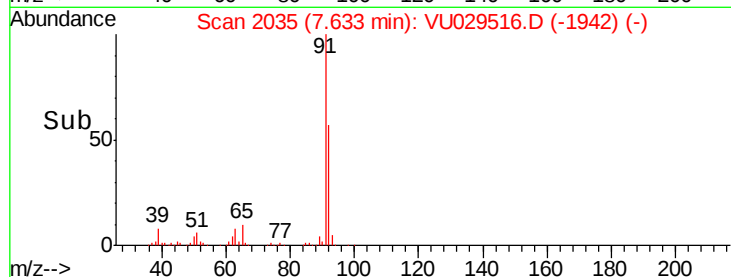
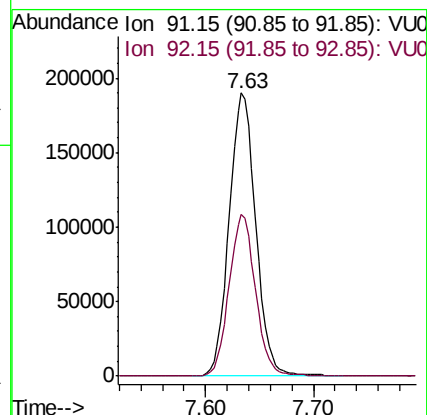
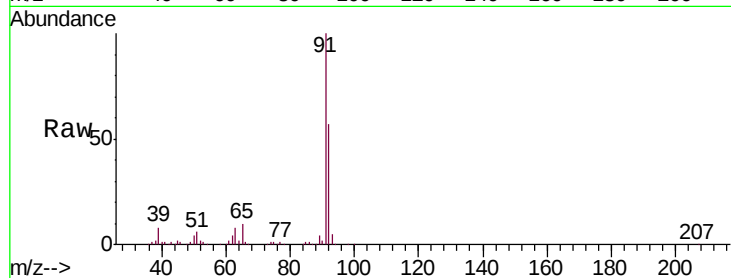
VSTD00559

Tgt Ion: 91 Resp: 327245

Ion Ratio Lower Upper

91 100

92 57.2 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 4.586 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU029516.D

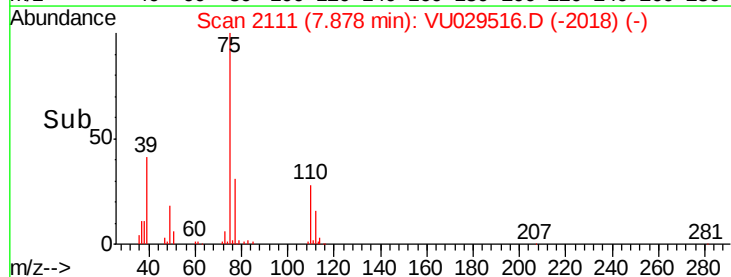
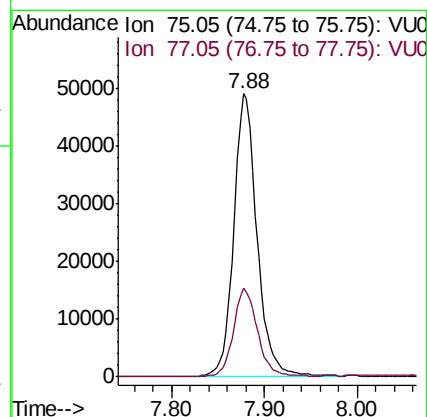
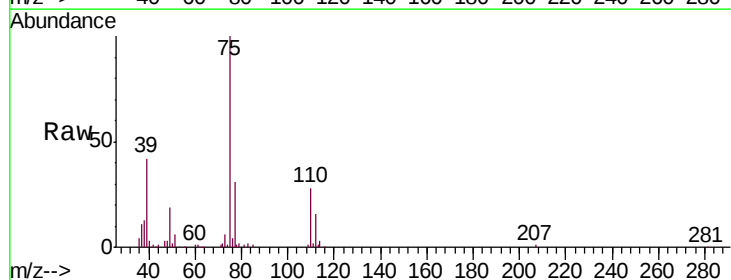
Acq: 15 Feb 2019 23:16

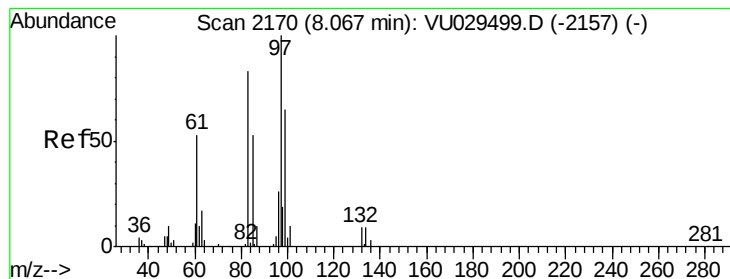
Tgt Ion: 75 Resp: 85868

Ion Ratio Lower Upper

75 100

77 31.2 22.2 41.2





#45

1,1,2-Trichloroethane

Concen: 5.214 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD00559

Tgt Ion: 97 Resp: 57854

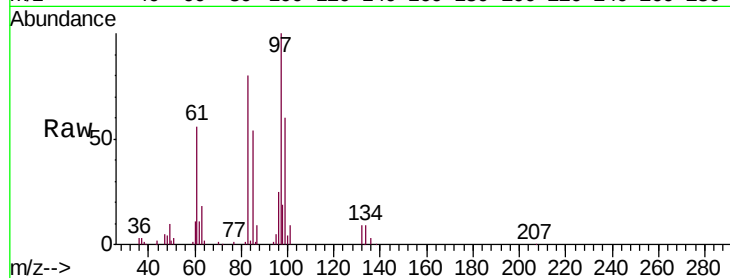
Ion Ratio Lower Upper

97 100

99 60.0 41.6 77.2

83 80.3 55.8 103.6

85 53.7 37.2 69.0

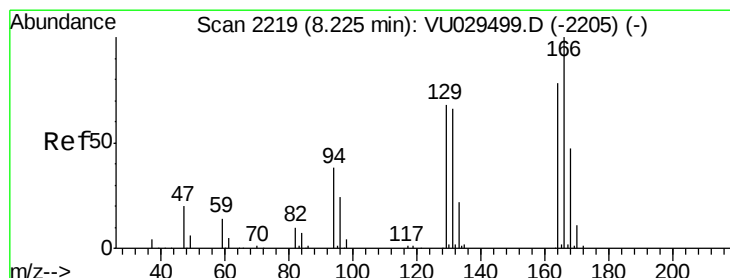
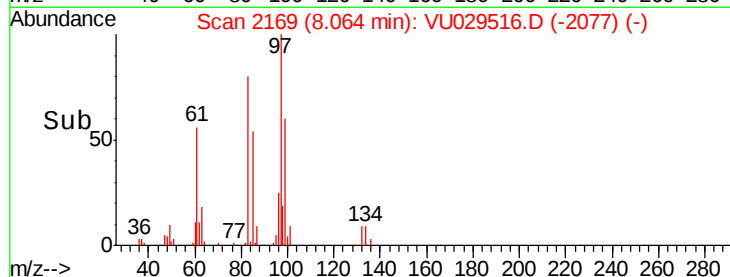
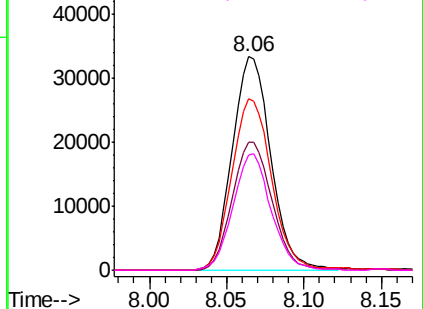


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 4.931 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Tgt Ion: 164 Resp: 73457

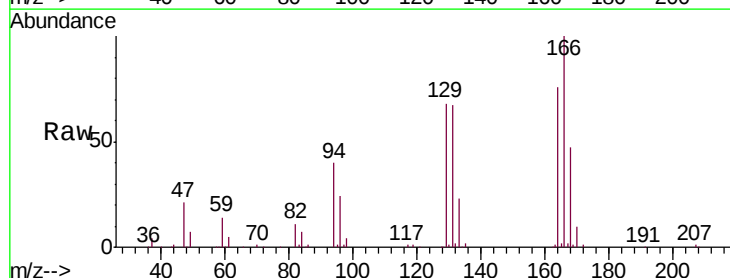
Ion Ratio Lower Upper

164 100

129 89.6 62.9 116.9

131 88.1 62.1 115.3

166 131.8 89.8 166.8

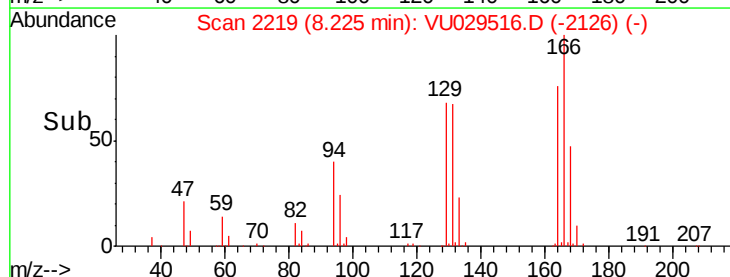
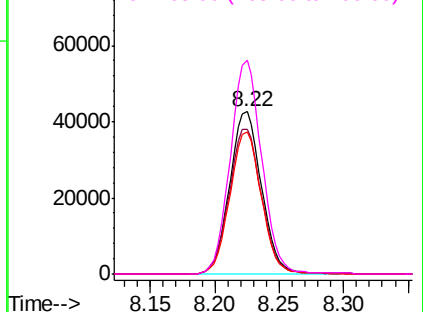


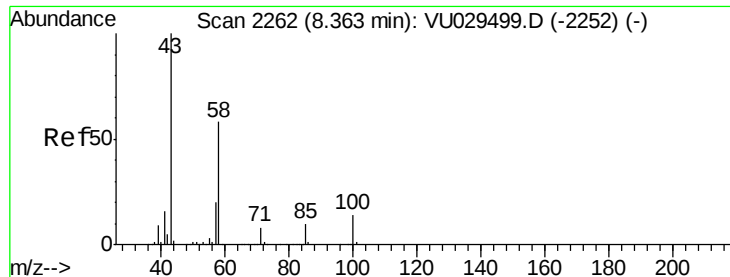
Abundance Ion 163.90 (163.60 to 164.60): V

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

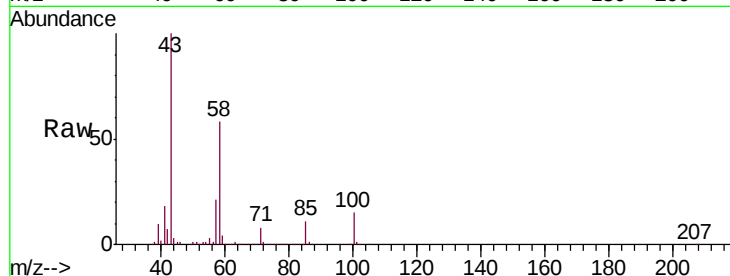




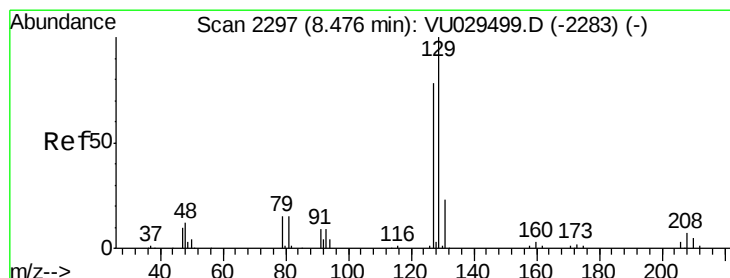
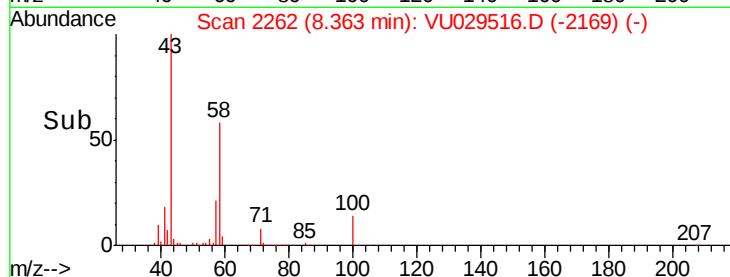
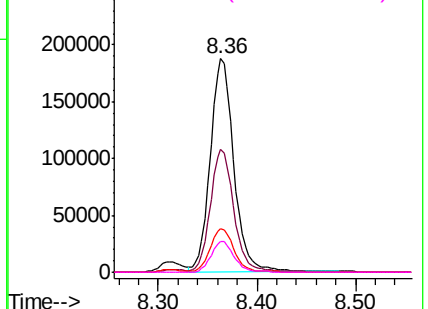
#48
2-Hexanone
Concen: 51.418 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU029516.D
Acq: 15 Feb 2019 23:16

Instrument :
MSVOA_U
ClientSampleId :
VSTD00559

Tgt Ion: 43 Resp: 312933
Ion Ratio Lower Upper
43 100
58 57.1 45.7 68.5
57 20.6 16.4 24.6
100 14.1 11.1 16.7

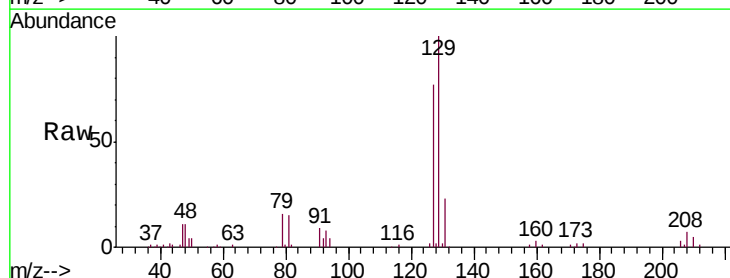


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

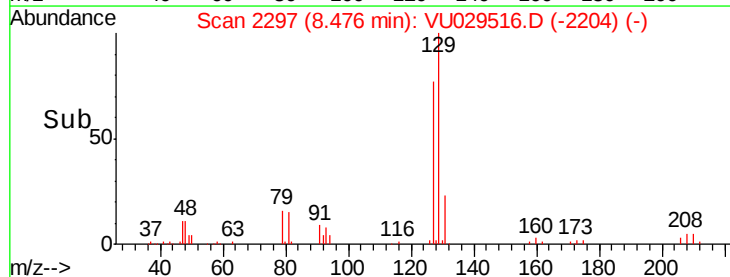
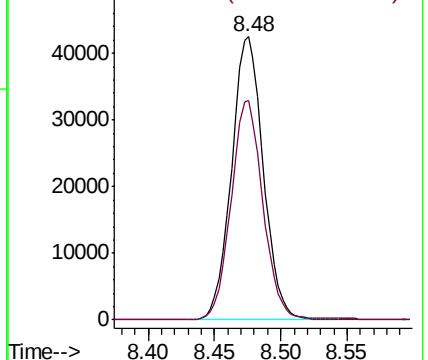


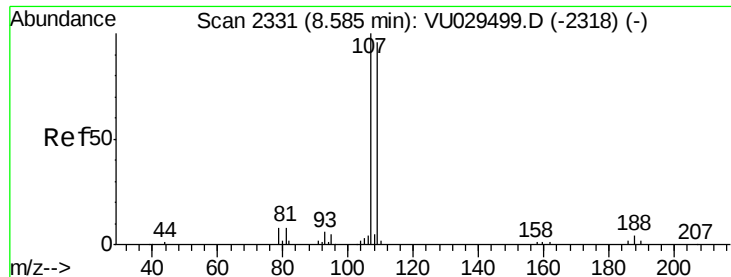
#49
Dibromochloromethane
Concen: 4.739 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU029516.D
Acq: 15 Feb 2019 23:16

Tgt Ion: 129 Resp: 70871
Ion Ratio Lower Upper
129 100
127 77.3 53.3 99.1



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

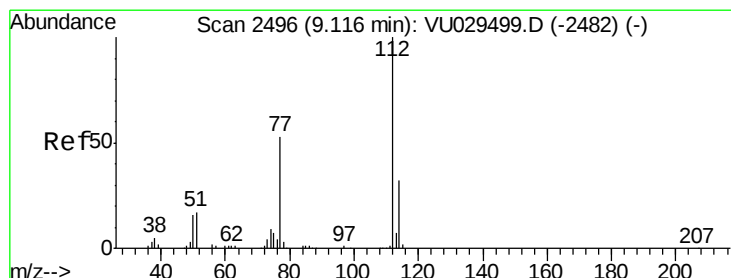
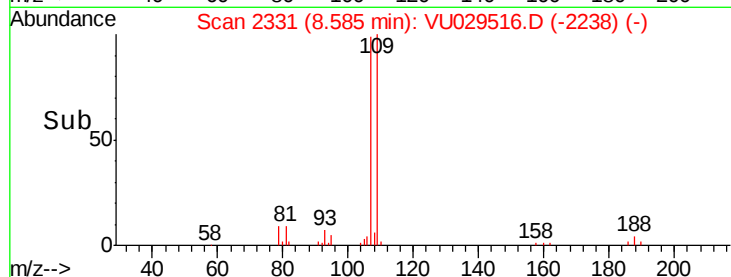
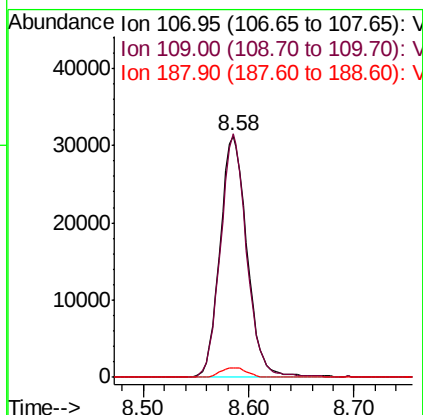
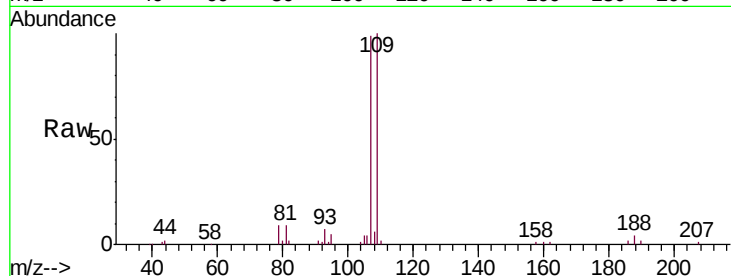




#50
1,2-Dibromoethane
Concen: 5.052 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU029516.D
Acq: 15 Feb 2019 23:16

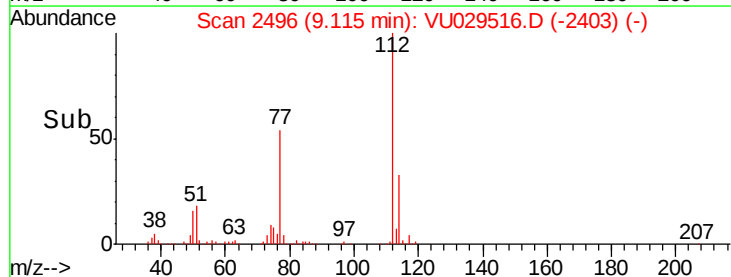
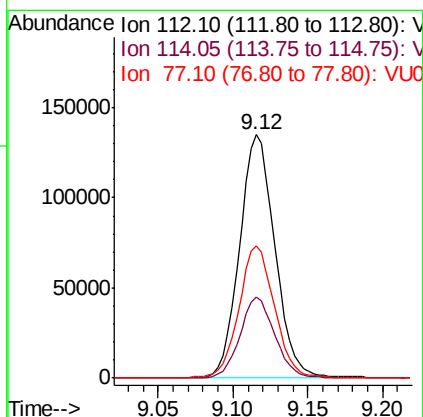
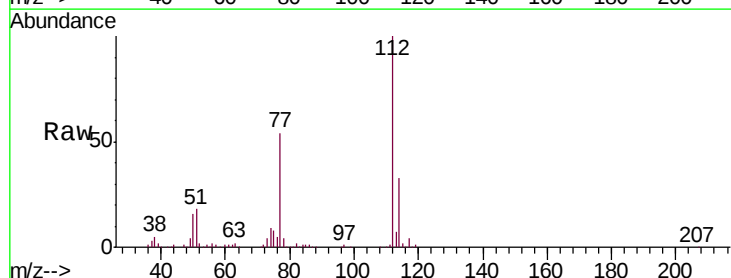
Instrument :
MSVOA_U
ClientSampleId :
VSTD00559

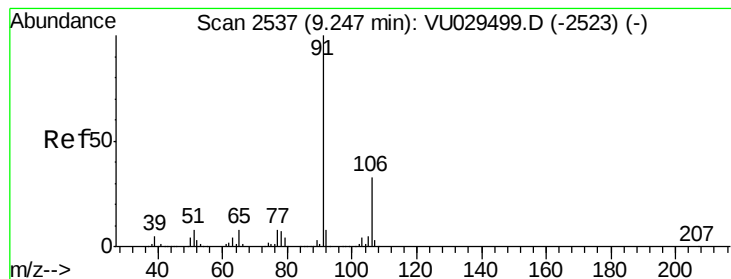
Tgt Ion:107 Resp: 55484
Ion Ratio Lower Upper
107 100
109 100.8 64.1 119.1
188 4.0 3.7 5.5



#51
Chlorobenzene
Concen: 4.970 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU029516.D
Acq: 15 Feb 2019 23:16

Tgt Ion:112 Resp: 221879
Ion Ratio Lower Upper
112 100
114 33.1 22.9 42.5
77 54.5 41.8 62.6





#52

Ethylbenzene

Concen: 5.027 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

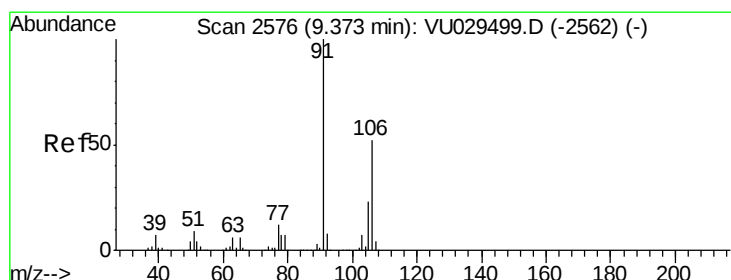
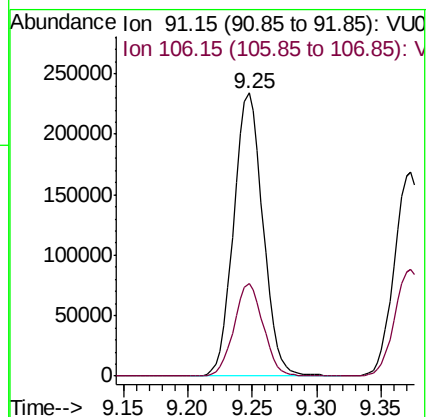
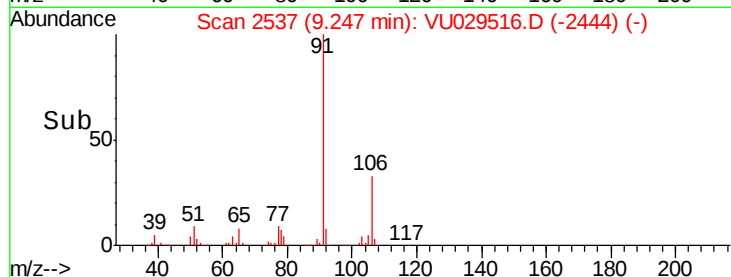
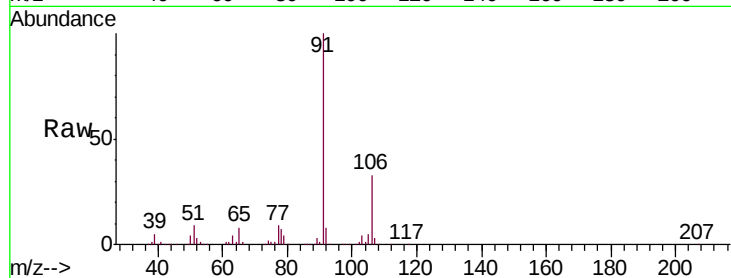
VSTD00559

Tgt Ion: 91 Resp: 369534

Ion Ratio Lower Upper

91 100

106 32.6 22.8 42.4



#53

m,p-xylene

Concen: 5.035 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029516.D

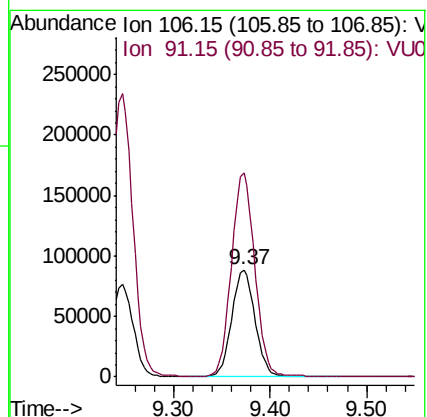
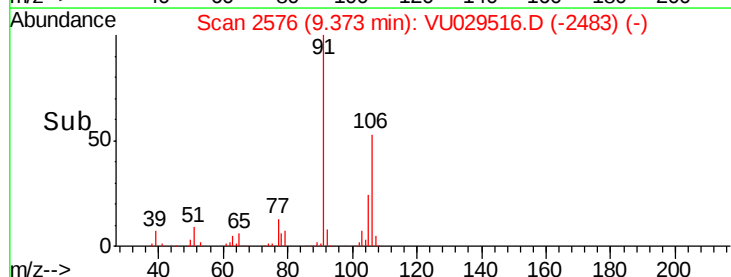
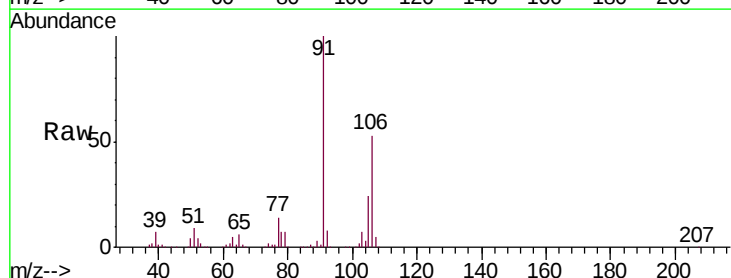
Acq: 15 Feb 2019 23:16

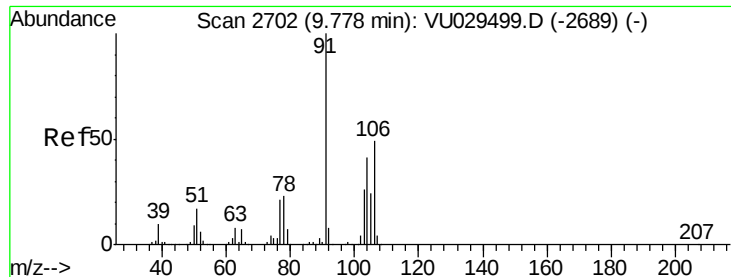
Tgt Ion: 106 Resp: 147593

Ion Ratio Lower Upper

106 100

91 189.9 135.7 251.9





#54

o-xylene

Concen: 5.054 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

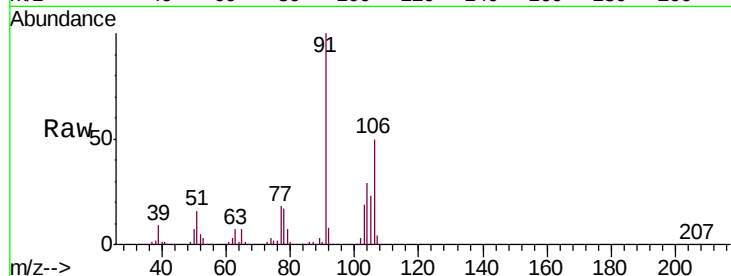
VSTD00559

Tgt Ion:106 Resp: 145414

Ion Ratio Lower Upper

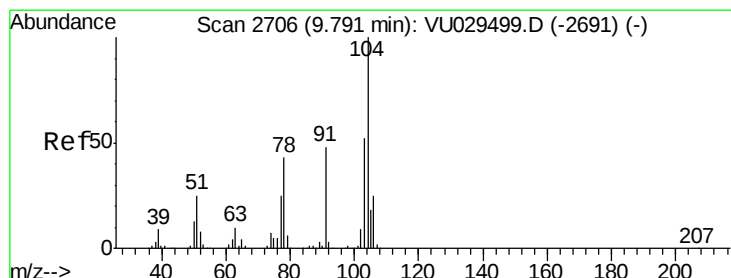
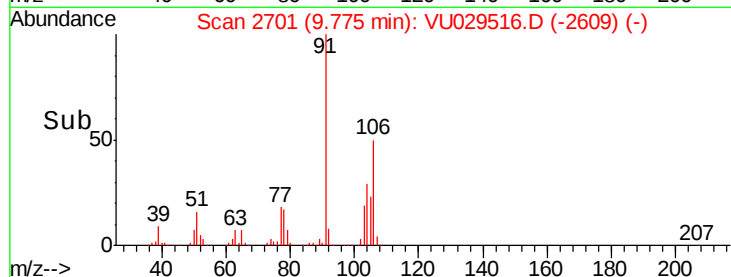
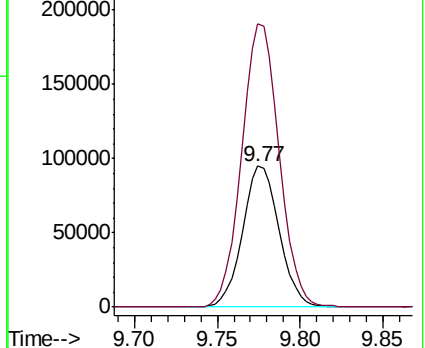
106 100

91 200.9 145.1 269.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.069 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. -0.00 min

Lab File: VU029516.D

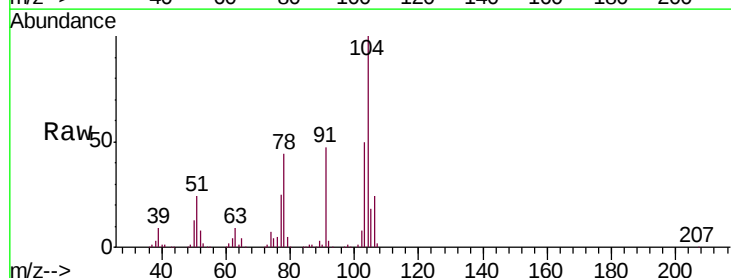
Acq: 15 Feb 2019 23:16

Tgt Ion:104 Resp: 242136

Ion Ratio Lower Upper

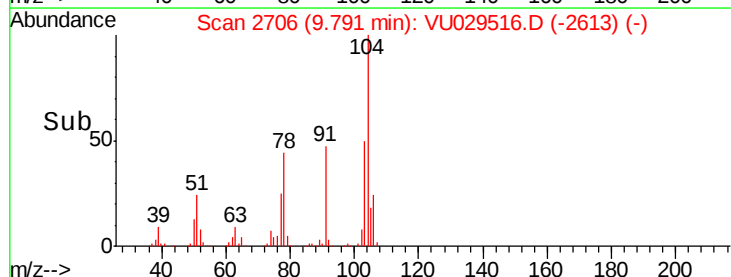
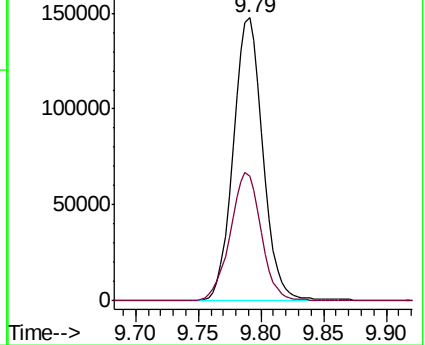
104 100

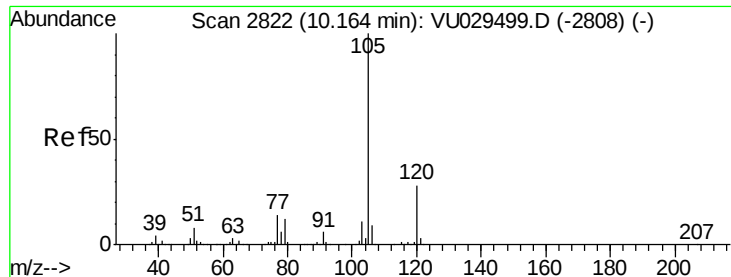
78 44.0 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.094 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD00559

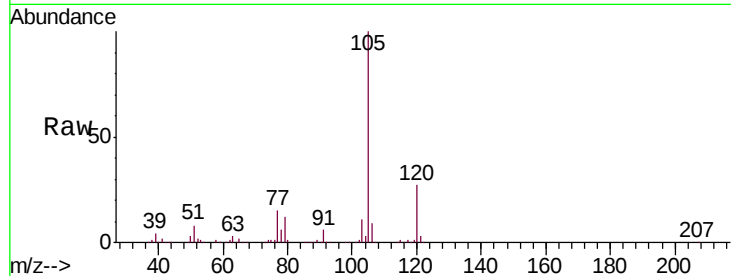
Tgt Ion: 105 Resp: 386563

Ion Ratio Lower Upper

105 100

120 27.8 22.2 33.4

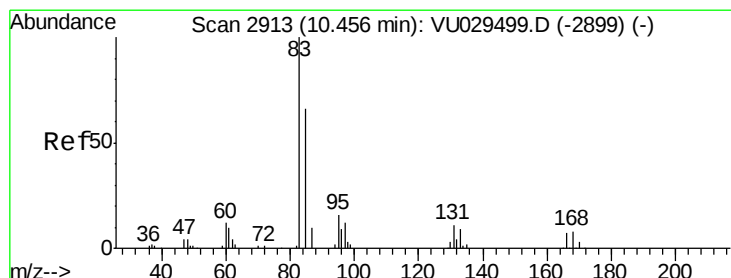
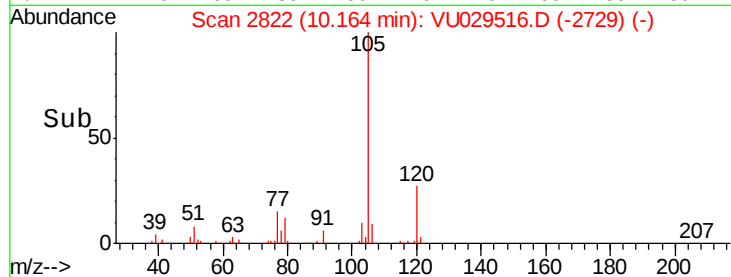
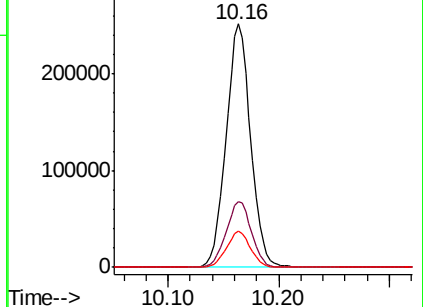
77 14.7 11.5 17.3



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: 5.304 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

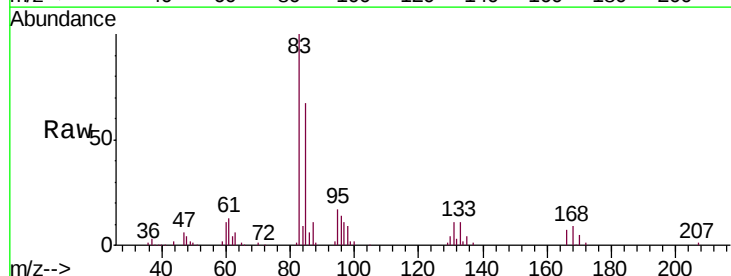
Tgt Ion: 83 Resp: 71828

Ion Ratio Lower Upper

83 100

85 66.7 46.5 86.3

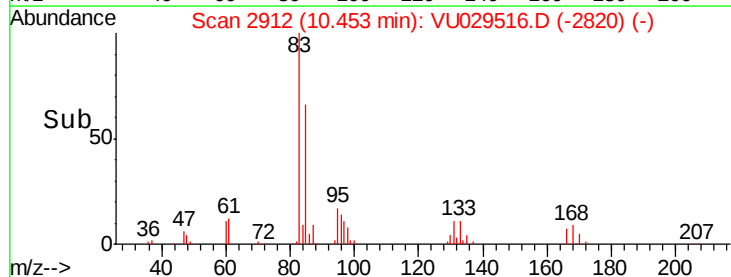
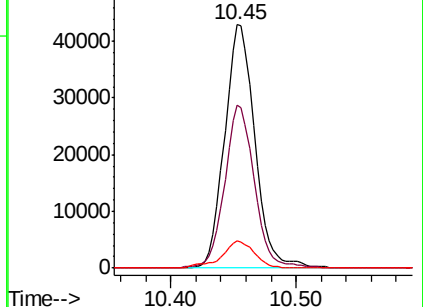
131 11.0 8.3 12.5

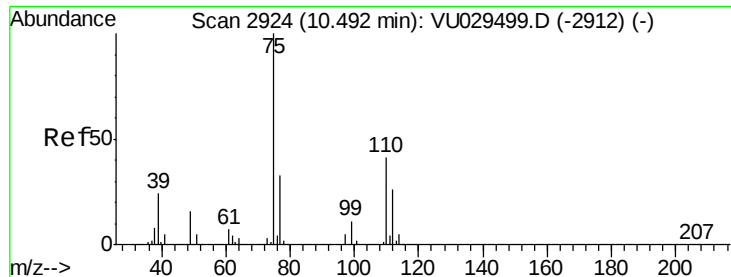


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

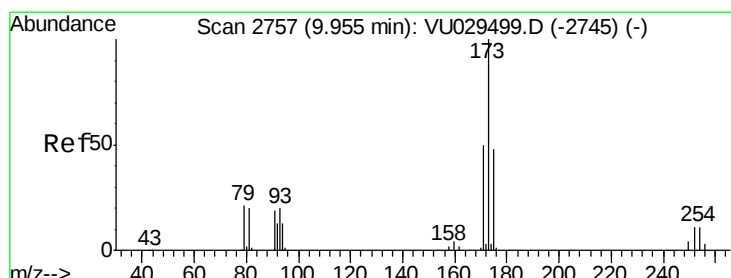
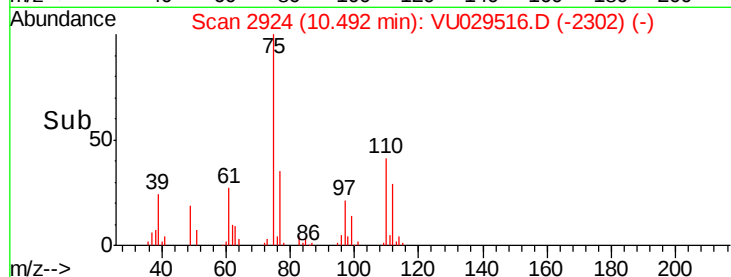
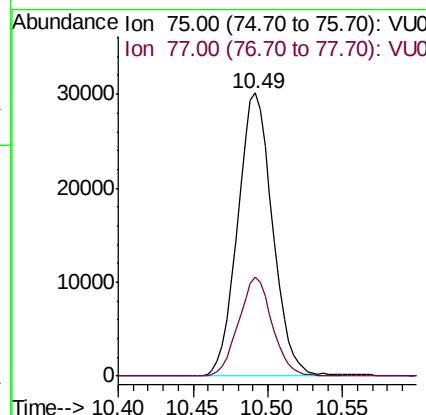
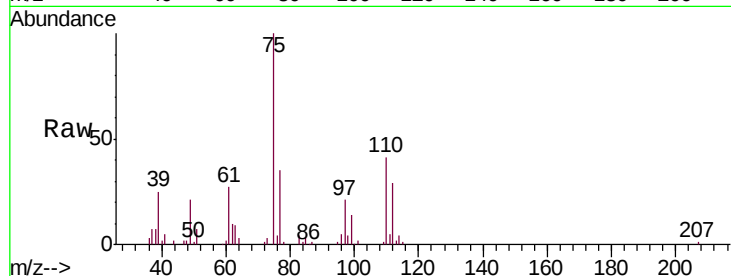




#59
 1,2,3-Trichloropropane
 Concen: 5.269 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

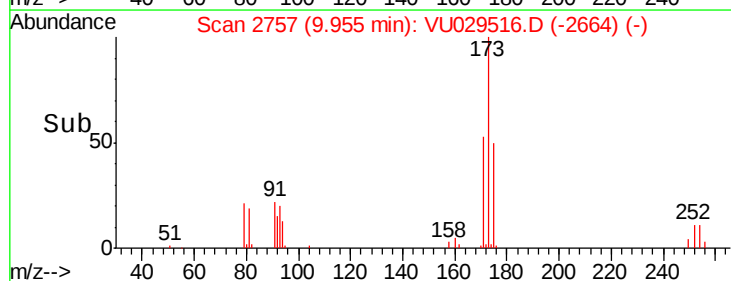
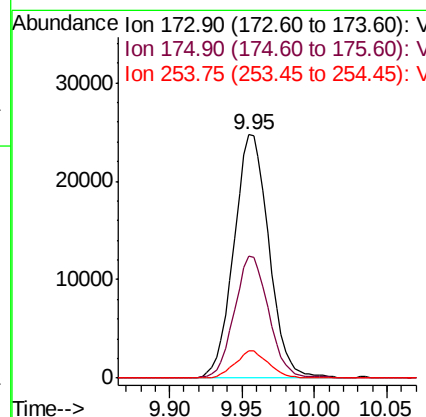
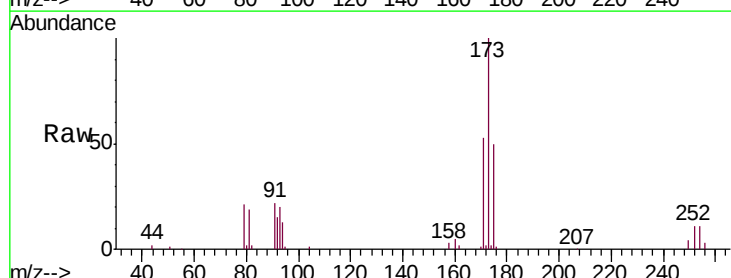
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00559

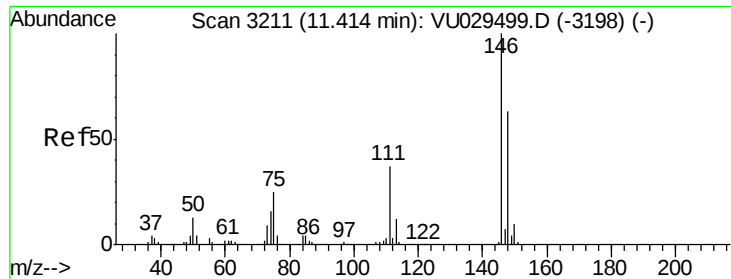
Tgt Ion: 75 Resp: 48959
 Ion Ratio Lower Upper
 75 100
 77 33.6 28.2 42.2



#61
 Bromoform
 Concen: 4.444 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

Tgt Ion: 173 Resp: 41517
 Ion Ratio Lower Upper
 173 100
 175 48.7 39.2 58.8
 254 10.7 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 4.910 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD00559

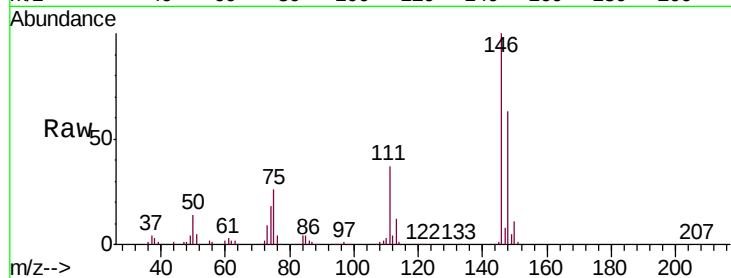
Tgt Ion:146 Resp: 191982

Ion Ratio Lower Upper

146 100

111 37.2 26.1 48.5

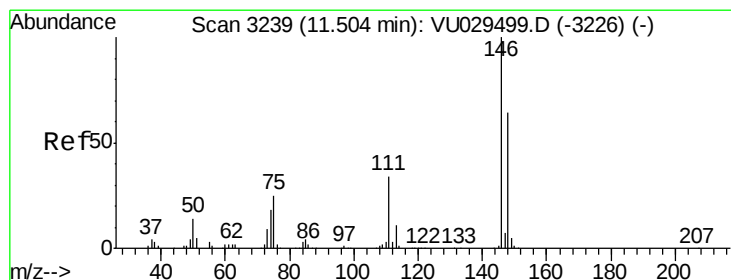
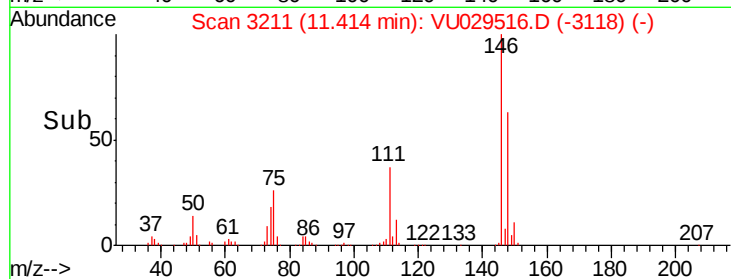
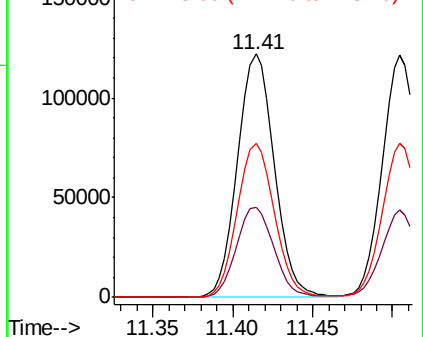
148 63.0 44.7 82.9



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: 4.946 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

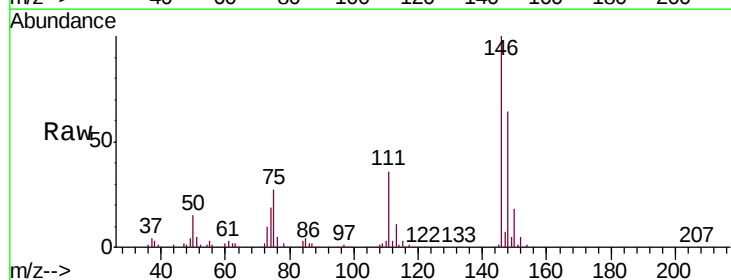
Tgt Ion:146 Resp: 193104

Ion Ratio Lower Upper

146 100

111 36.0 25.6 47.6

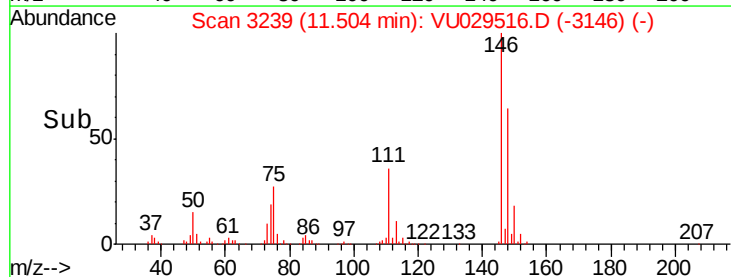
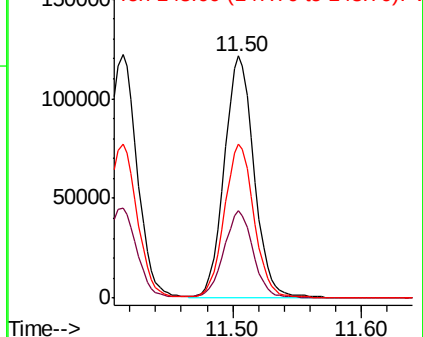
148 63.9 44.2 82.0

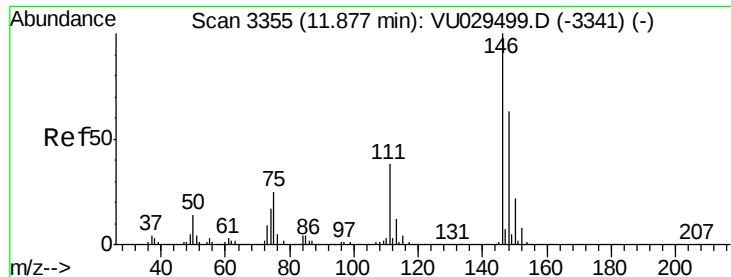


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.125 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD00559

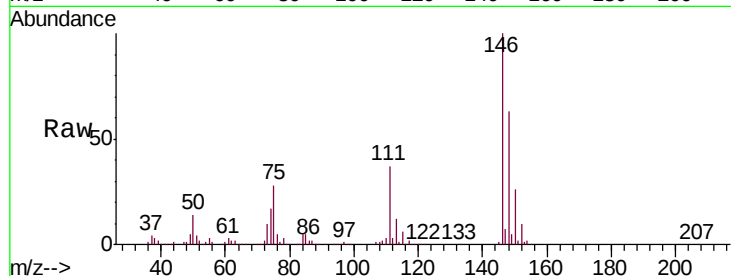
Tgt Ion:146 Resp: 188800

Ion Ratio Lower Upper

146 100

111 37.4 30.9 46.3

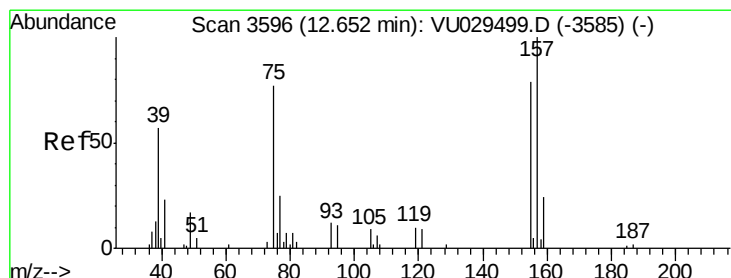
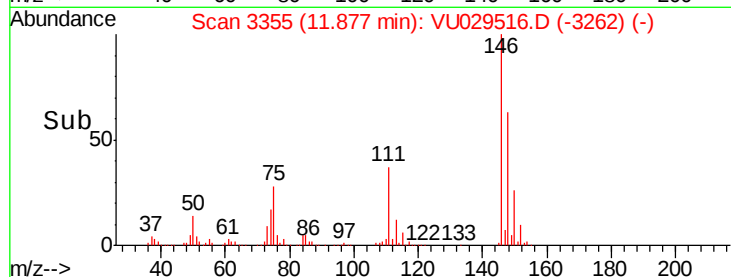
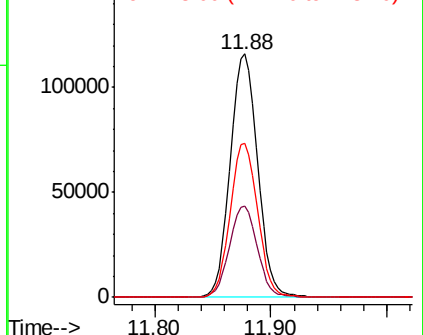
148 63.1 51.0 76.4



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: 5.057 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

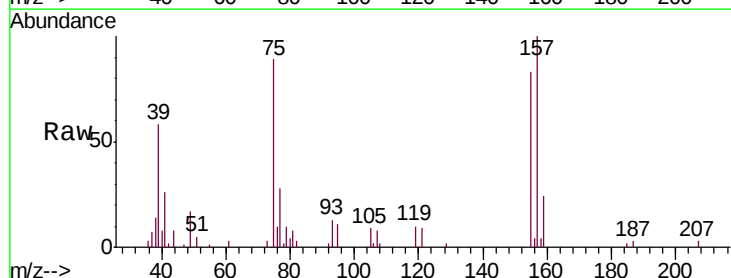
Tgt Ion: 75 Resp: 11654

Ion Ratio Lower Upper

75 100

155 92.9 75.3 112.9

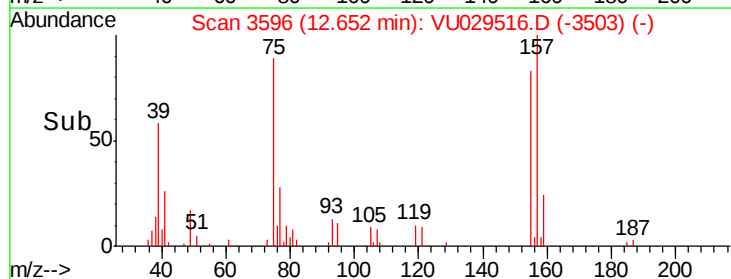
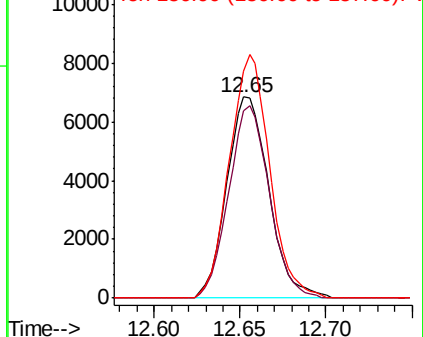
157 112.5 103.0 154.4

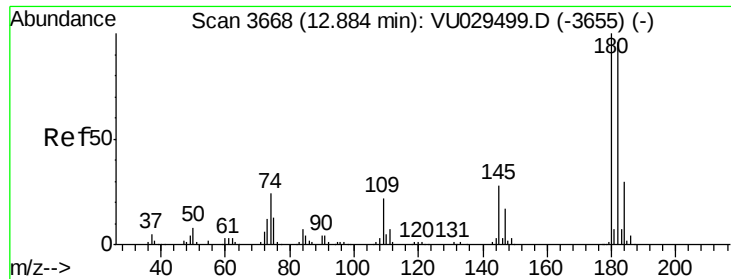


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

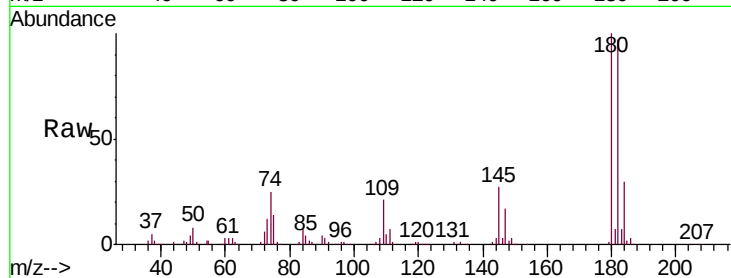




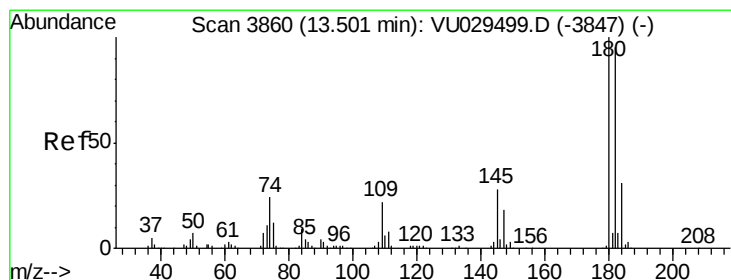
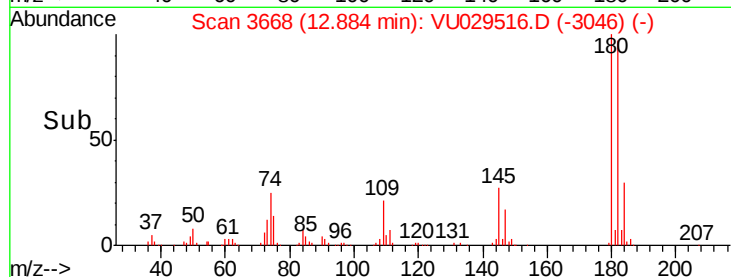
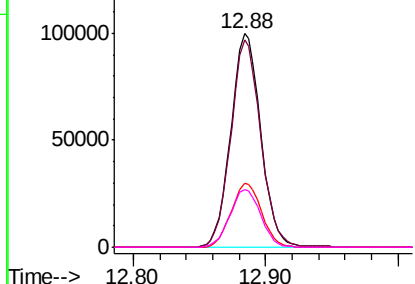
#67
 1,3,5-Trichlorobenzene
 Concen: 4.830 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00559

Tgt Ion:180 Resp: 156696
 Ion Ratio Lower Upper
 180 100
 182 97.0 76.0 114.0
 184 30.6 24.1 36.1
 145 27.7 22.6 34.0

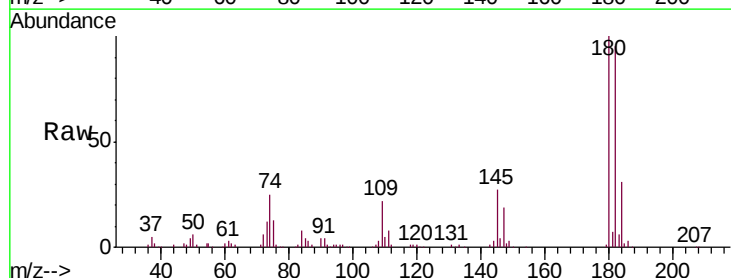


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

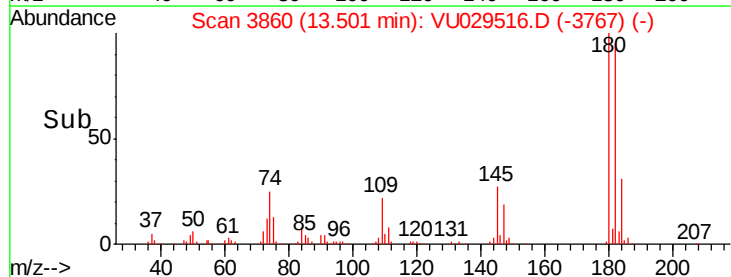
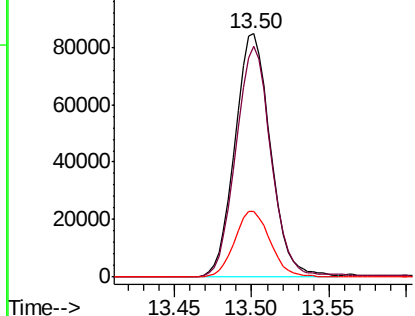


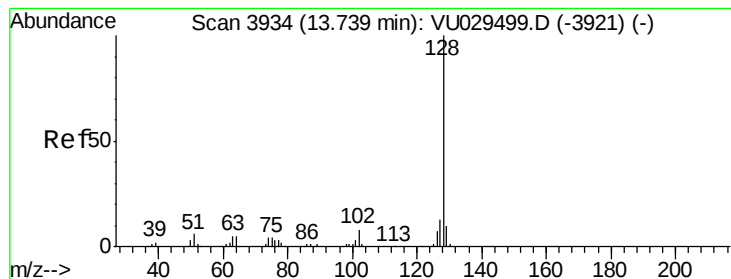
#68
 1,2,4-trichlorobenzene
 Concen: 4.974 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU029516.D
 Acq: 15 Feb 2019 23:16

Tgt Ion:180 Resp: 135920
 Ion Ratio Lower Upper
 180 100
 182 94.1 77.1 115.7
 145 27.3 23.1 34.7



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





#69

Naphthalene

Concen: 4.998 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD00559

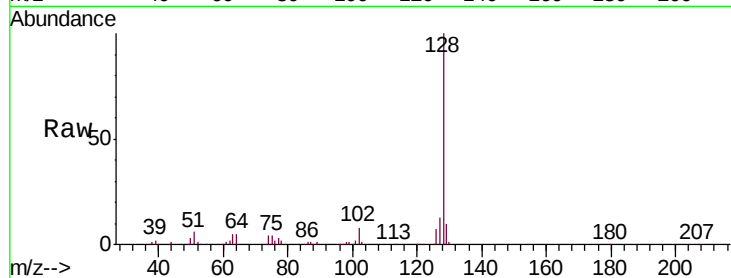
Tgt Ion:128 Resp: 235836

Ion Ratio Lower Upper

128 100

129 10.2 8.7 13.1

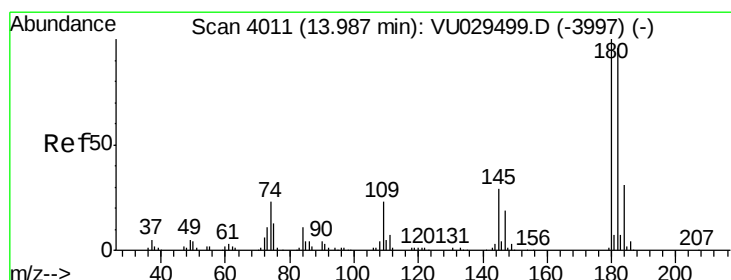
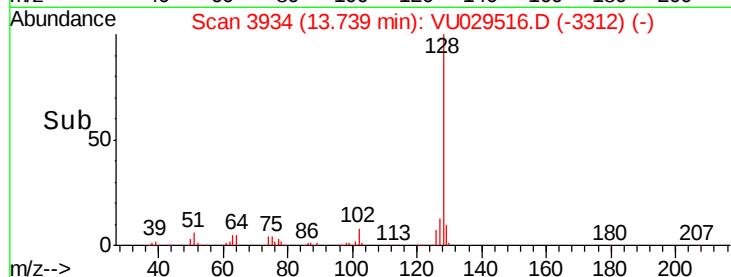
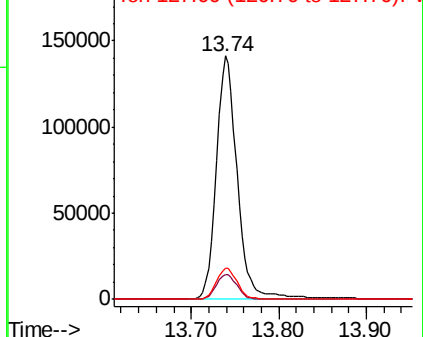
127 12.8 10.3 15.5



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: 4.887 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029516.D

Acq: 15 Feb 2019 23:16

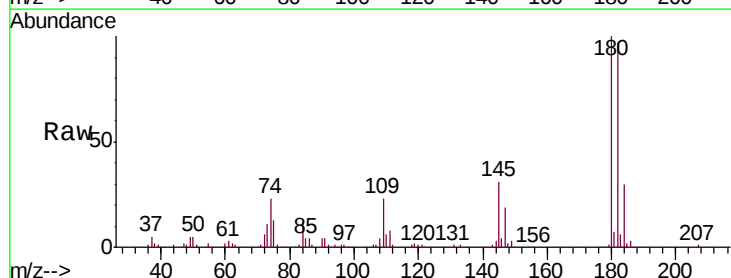
Tgt Ion:180 Resp: 127681

Ion Ratio Lower Upper

180 100

182 97.9 75.9 113.9

145 30.7 23.8 35.6



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

