

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081018\
 Data File : VU026035.D
 Acq On : 10 Aug 2018 10:08
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Quant Time: Aug 11 00:55:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 10 07:39:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	299164	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	285944	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	145913	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	79743	36.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.94%
7) Chloroethane-d5	1.68	69	72870	42.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.06%
11) 1,1-Dichloroethene-d2	2.27	63	170196	40.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.92%
21) 2-Butanone-d5	4.17	46	162952	89.41	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.41%
24) Chloroform-d	4.65	84	212808	45.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.78%
26) 1,2-Dichloroethane-d4	5.31	65	141150	45.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.12%
32) Benzene-d6	5.34	84	396309	44.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.26%
36) 1,2-Dichloropropane-d6	6.33	67	131298	45.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.40%
41) Toluene-d8	7.57	98	373738	44.00	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.00%
43) trans-1,3-Dichloropropene-	7.85	79	66623	46.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.06%
47) 2-Hexanone-d5	8.31	63	118416	90.74	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.74%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	194450	46.28	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.56%
64) 1,2-Dichlorobenzene-d4	11.86	152	161632	44.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.88%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	139859	53.661	ug/L 100
3) Chloromethane	1.33	50	120236	51.413	ug/L 97
5) Vinyl chloride	1.40	62	118943	52.708	ug/L 96
6) Bromomethane	1.62	94	73049	60.537	ug/L 98
8) Chloroethane	1.70	64	70794	52.208	ug/L 96
9) Trichlorofluoromethane	1.89	101	170707	52.873	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	96554	51.410	ug/L 97
12) 1,1-Dichloroethene	2.28	96	84141	48.715	ug/L 88
13) Acetone	2.32	43	139569	123.272	ug/L 98
14) Carbon disulfide	2.48	76	294875	51.893	ug/L 99
15) Methyl Acetate	2.61	43	114285	48.190	ug/L 99
16) Methylene chloride	2.70	84	111574	50.600	ug/L 99
17) trans-1,2-Dichloroethene	2.98	96	102576	53.300	ug/L 94
18) Methyl tert-butyl Ether	3.00	73	324739	51.346	ug/L 99
19) 1,1-Dichloroethane	3.45	63	193833	51.930	ug/L 98
20) cis-1,2-Dichloroethene	4.23	96	115452	52.138	ug/L 98
22) 2-Butanone	4.26	43	177570	108.392	ug/L 100

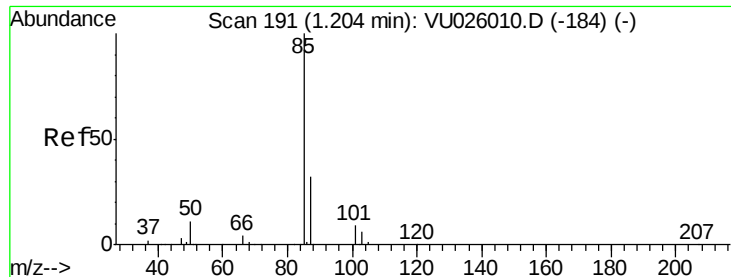
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081018\
 Data File : VU026035.D
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 Quant Title : VOC Analysis
 QLast Update : Fri Aug 10 07:39:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	63088	53.492	ug/L	97
25) Chloroform	4.68	83	204308	52.564	ug/L	99
27) 1,2-Dichloroethane	5.41	62	161965	50.452	ug/L	100
29) Cyclohexane	5.00	56	164393	51.439	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	182304	50.530	ug/L	99
31) Carbon tetrachloride	5.14	117	168669	51.197	ug/L	100
33) Benzene	5.39	78	422634	51.893	ug/L	100
34) Trichloroethene	6.19	95	108883	51.175	ug/L	98
35) Methylcyclohexane	6.42	83	178827	55.045	ug/L	99
37) 1,2-Dichloropropane	6.44	63	115953	52.033	ug/L	100
38) Bromodichloromethane	6.76	83	153428	51.679	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	182080	53.912	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	291585	95.231	ug/L	98
42) Toluene	7.64	91	461233	53.355	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	173767	54.054	ug/L	96
45) 1,1,2-Trichloroethane	8.07	97	109173	51.386	ug/L	98
46) Tetrachloroethene	8.23	164	97884	54.059	ug/L	98
48) 2-Hexanone	8.36	43	249148	104.446	ug/L	99
49) Dibromochloromethane	8.48	129	134007	52.307	ug/L	100
50) 1,2-Dibromoethane	8.59	107	119092	51.468	ug/L	99
51) Chlorobenzene	9.12	112	303739	52.111	ug/L	99
52) Ethylbenzene	9.25	91	502445	53.117	ug/L	99
53) m,p-Xylene	9.38	106	196982	54.498	ug/L	97
54) o-xylene	9.78	106	194090	54.104	ug/L	96
55) Styrene	9.80	104	329226	55.124	ug/L	99
56) Isopropylbenzene	10.17	105	510565	55.246	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	182427	50.522	ug/L	98
59) 1,2,3-Trichloropropane	10.50	75	141420	49.206	ug/L	98
61) Bromoform	9.96	173	98932	50.077	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	237498	52.283	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	247189	51.909	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	255888	52.922	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	38700	45.602	ug/L	92
67) 1,3,5-Trichlorobenzene	12.89	180	187051	55.095	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	151443	52.749	ug/L	99
69) Naphthalene	13.74	128	452617	48.868	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	162261	52.584	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 53.661 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

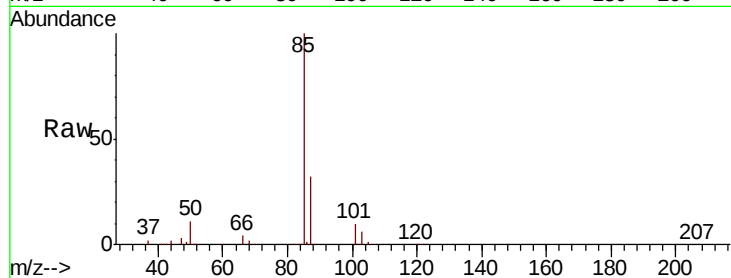
VSTD05051

Tot Ion: 85 Resp: 139859

Ion Ratio Lower Upper

85 100

87 32.4 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU026010.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU026010.D (-184) (-)

1.20

150000

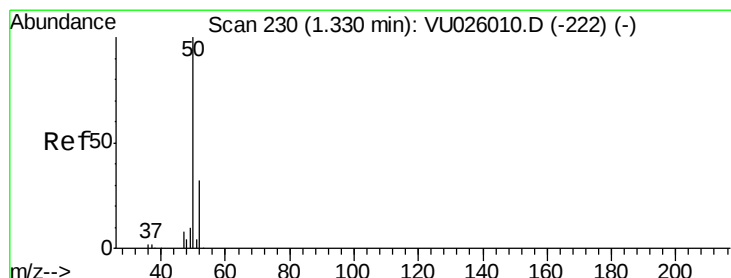
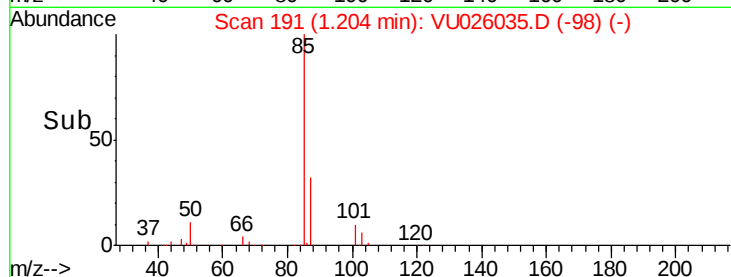
100000

50000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 51.413 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026035.D

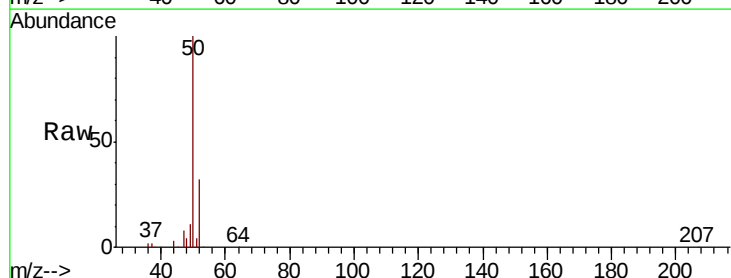
Acq: 10 Aug 2018 10:08

Tgt Ion: 50 Resp: 120236

Ion Ratio Lower Upper

50 100

52 31.9 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU026010.D (-222) (-)

Ion 52.00 (51.70 to 52.70): VU026010.D (-222) (-)

1.33

120000

100000

80000

60000

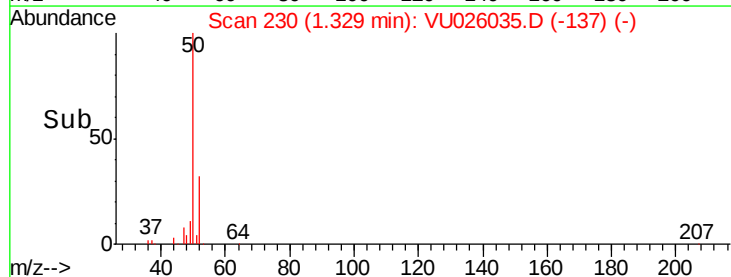
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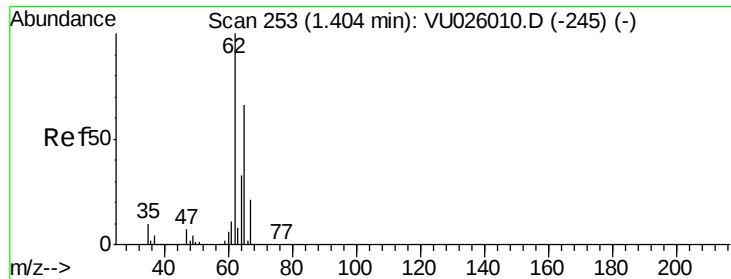
20000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 52.708 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

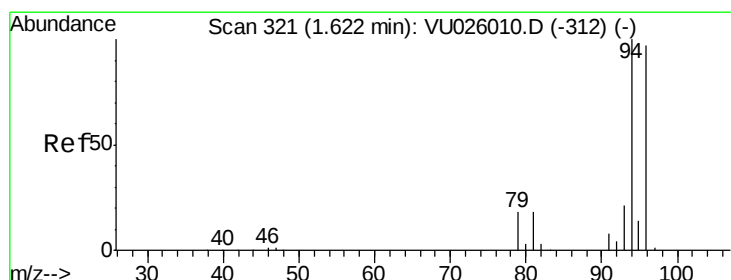
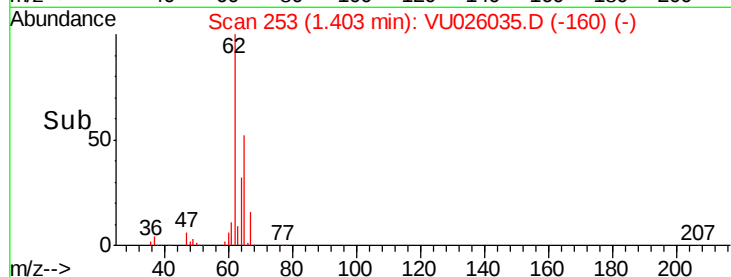
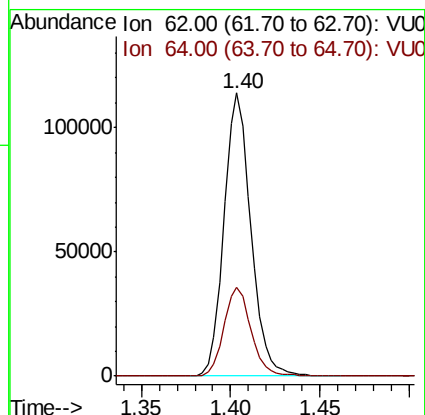
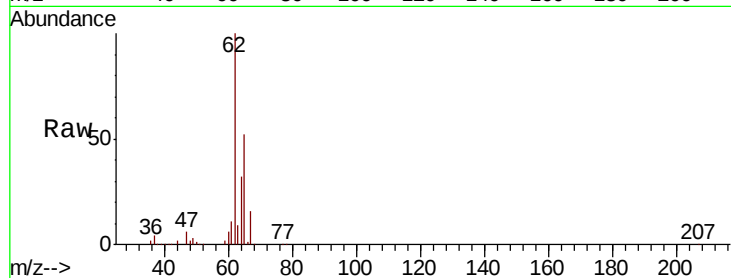
VSTD05051

Tot Ion: 62 Resp: 118943

Ion Ratio Lower Upper

62 100

64 31.6 23.7 43.9



#6

Bromomethane

Concen: 60.537 ug/L

RT: 1.62 min Scan# 321

Delta R.T. -0.00 min

Lab File: VU026035.D

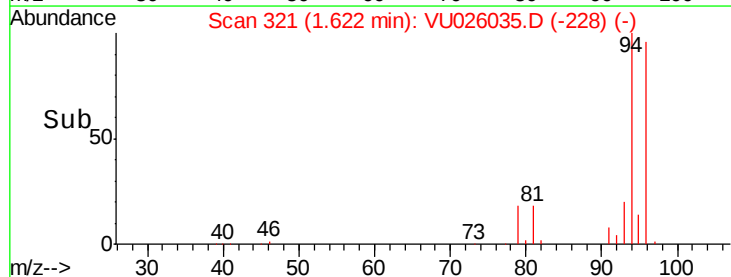
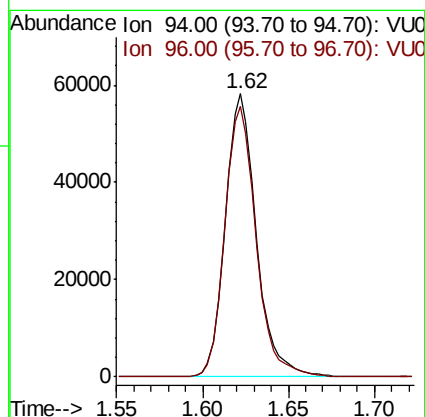
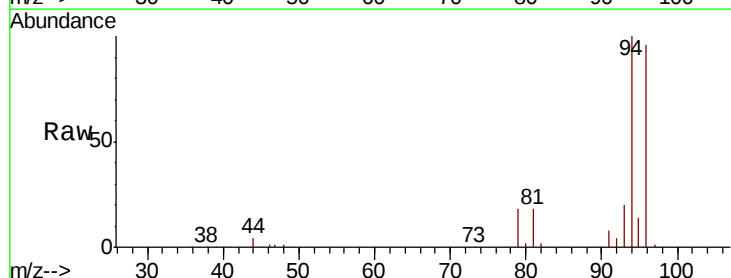
Acq: 10 Aug 2018 10:08

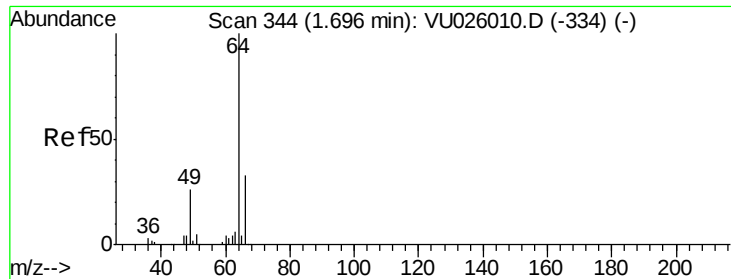
Tgt Ion: 94 Resp: 73049

Ion Ratio Lower Upper

94 100

96 95.5 65.6 121.8





#8

Chloroethane

Concen: 52.208 ug/L

RT: 1.70 min Scan# 344

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

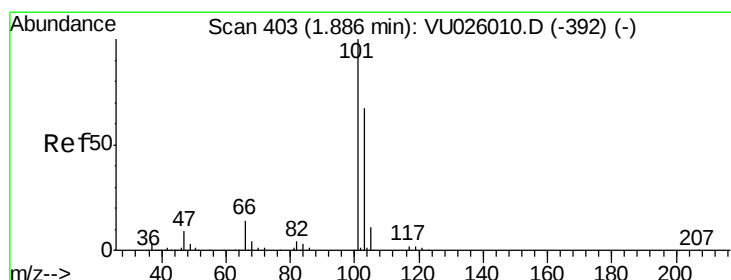
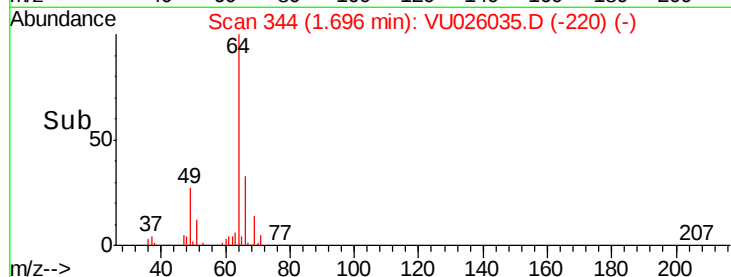
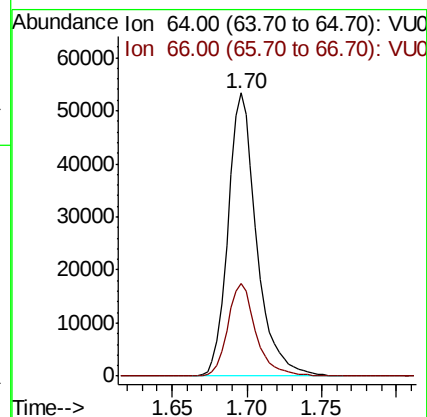
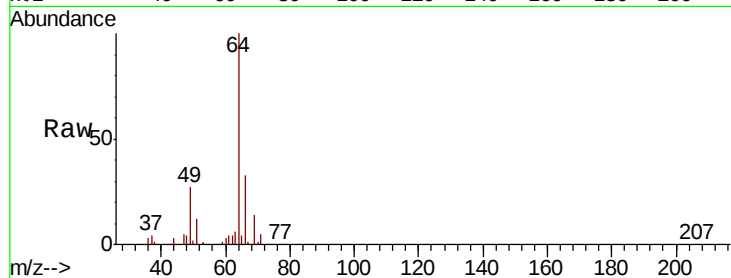
VSTD05051

Tot Ion: 64 Resp: 70794

Ion Ratio Lower Upper

64 100

66 32.5 21.2 39.4



#9

Trichlorofluoromethane

Concen: 52.873 ug/L

RT: 1.89 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU026035.D

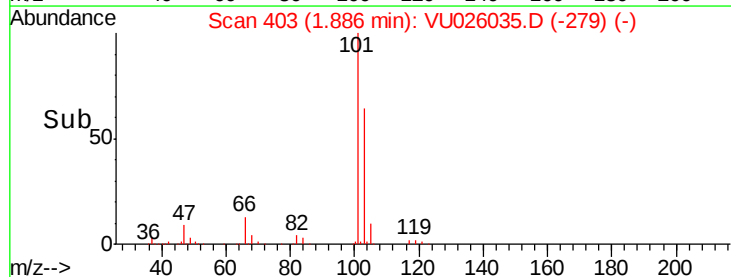
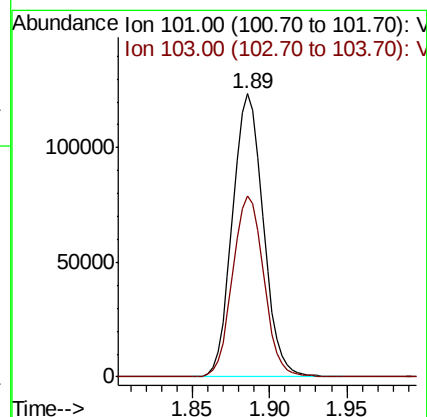
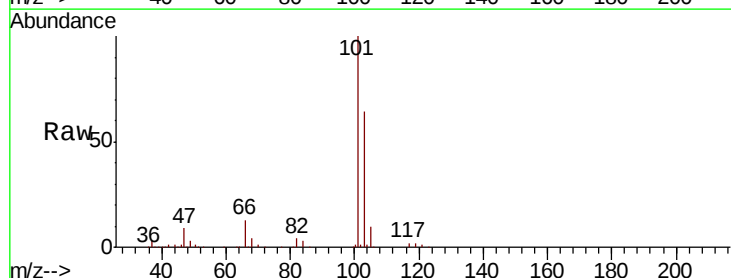
Acq: 10 Aug 2018 10:08

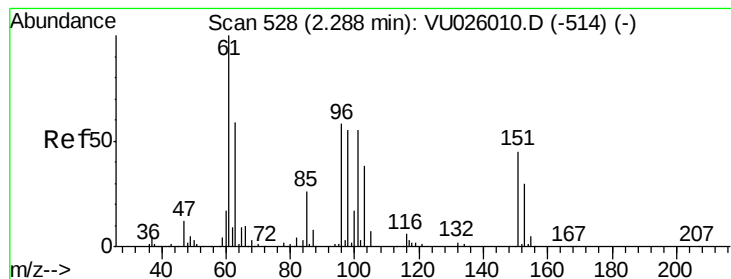
Tgt Ion:101 Resp: 170707

Ion Ratio Lower Upper

101 100

103 64.7 52.7 79.1





#10

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

Concen: 51.410 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

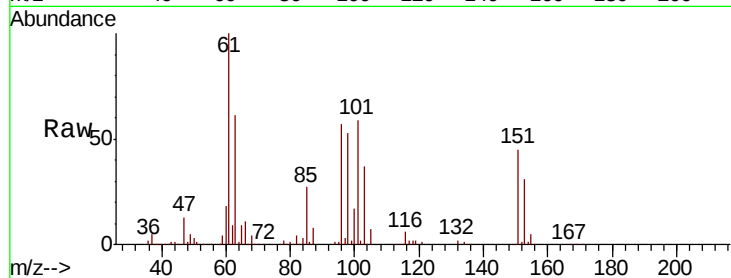
Tot Ion:101 Resp: 96554

Ion Ratio Lower Upper

101 100

85 44.2 36.0 54.0

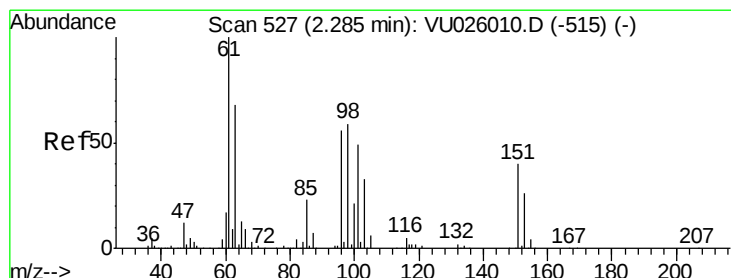
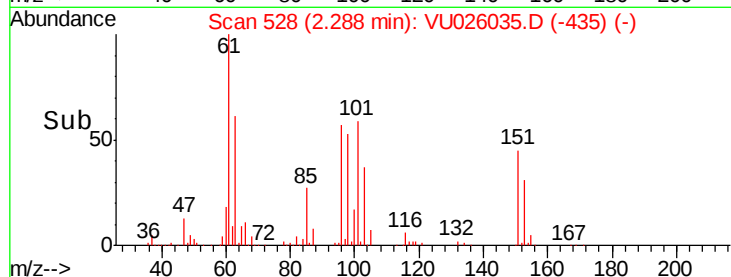
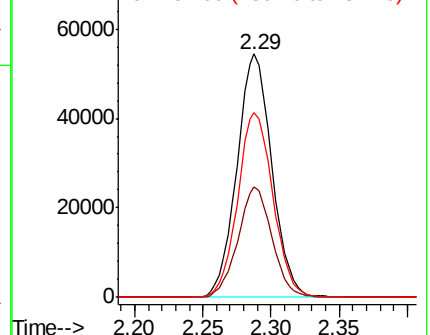
151 76.7 64.2 96.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.715 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

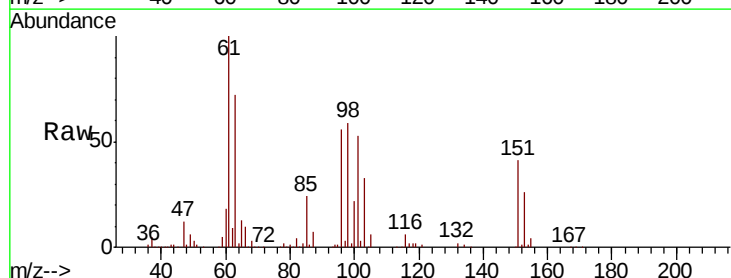
Tgt Ion: 96 Resp: 84141

Ion Ratio Lower Upper

96 100

61 179.2 121.2 225.2

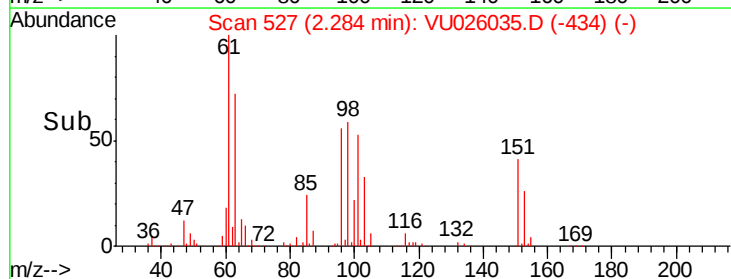
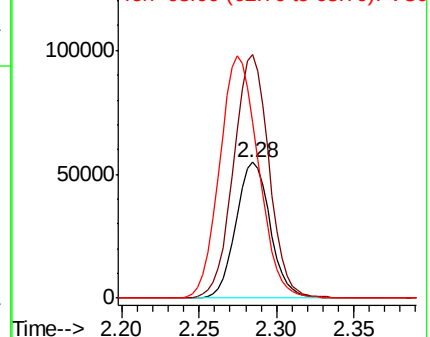
63 129.7 108.7 201.9

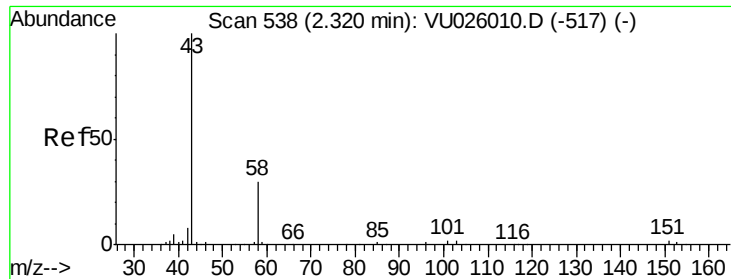


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 123.272 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

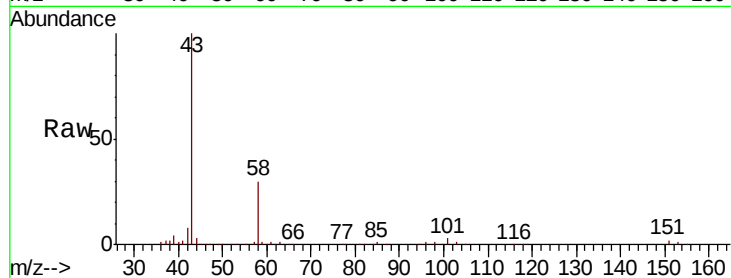
VSTD05051

Tot Ion: 43 Resp: 139569

Ion Ratio Lower Upper

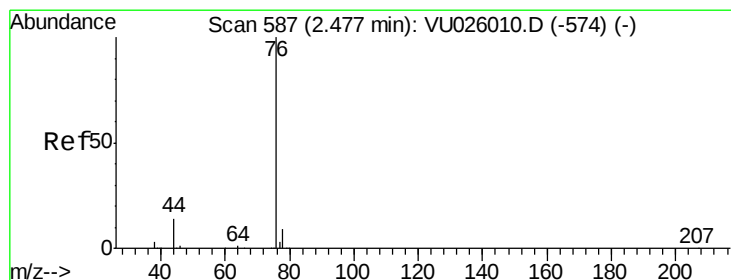
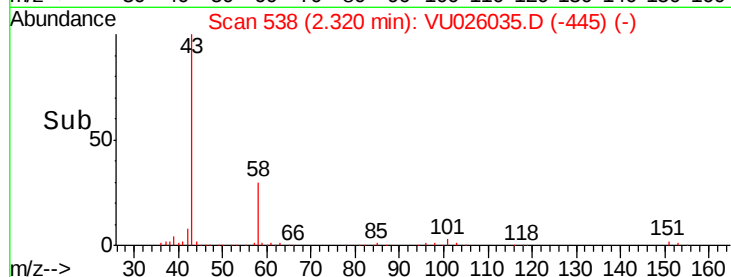
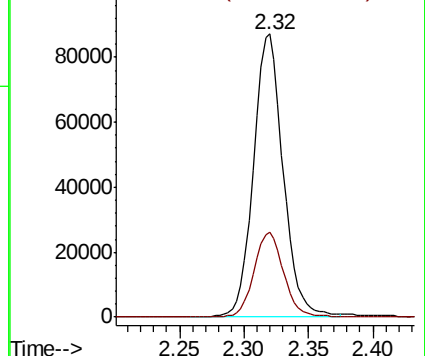
43 100

58 29.6 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VU026010.D (-517) (-)

Ion 58.00 (57.70 to 58.70): VU026010.D (-517) (-)



#14

Carbon disulfide

Concen: 51.893 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026035.D

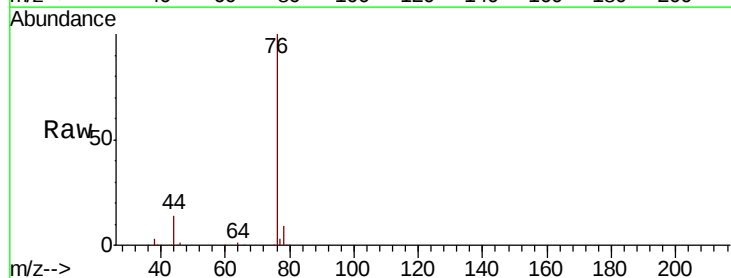
Acq: 10 Aug 2018 10:08

Tgt Ion: 76 Resp: 294875

Ion Ratio Lower Upper

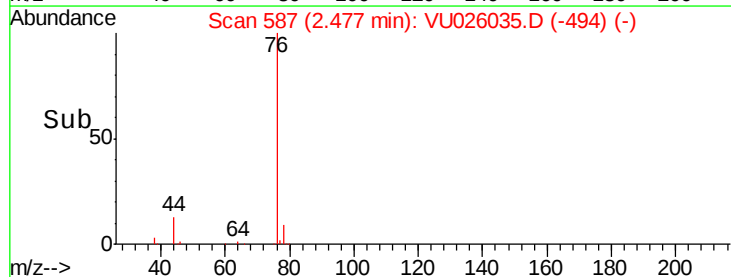
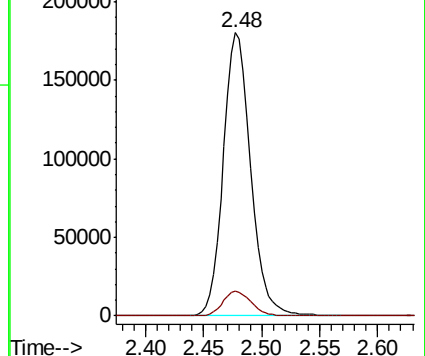
76 100

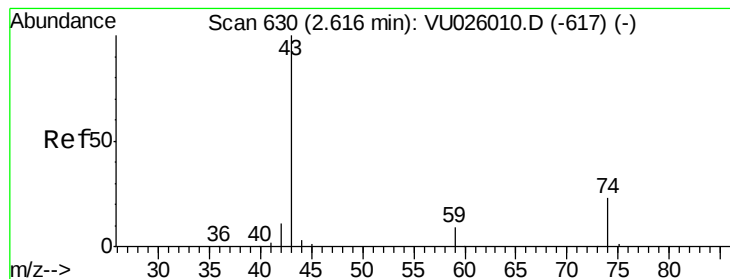
78 8.8 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU026010.D (-574) (-)

Ion 78.00 (77.70 to 78.70): VU026010.D (-574) (-)





#15

Methvl Acetate

Concen: 48.190 ug/L

RT: 2.61 min Scan# 629

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

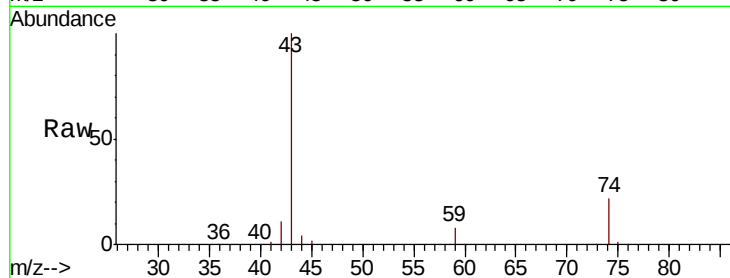
VSTD05051

Tot Ion: 43 Resp: 114285

Ion Ratio Lower Upper

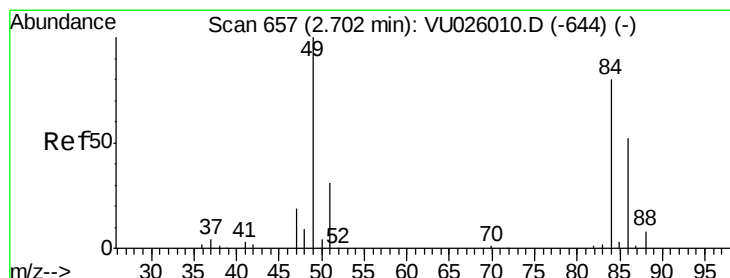
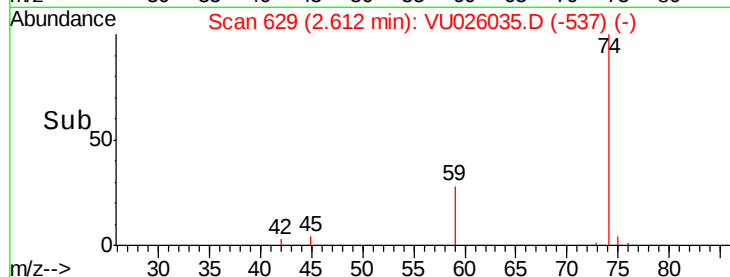
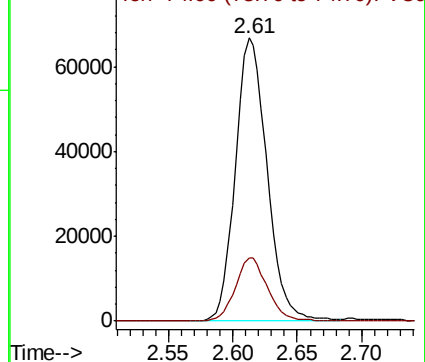
43 100

74 22.7 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 50.600 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

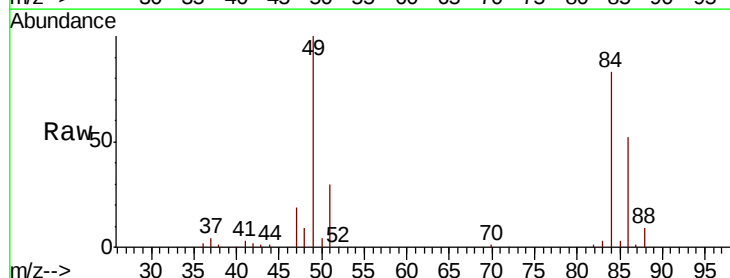
Tgt Ion: 84 Resp: 111574

Ion Ratio Lower Upper

84 100

86 63.1 45.8 85.0

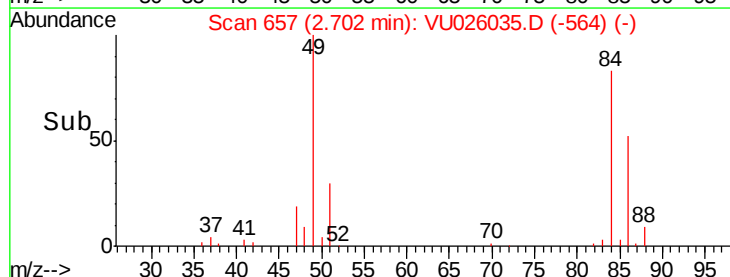
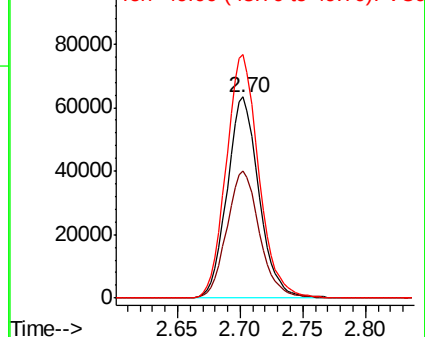
49 121.0 85.0 157.8

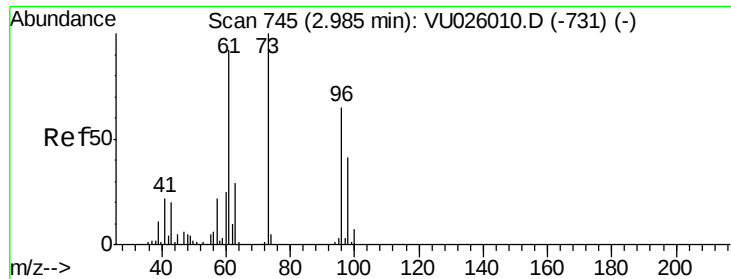


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 53.300 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

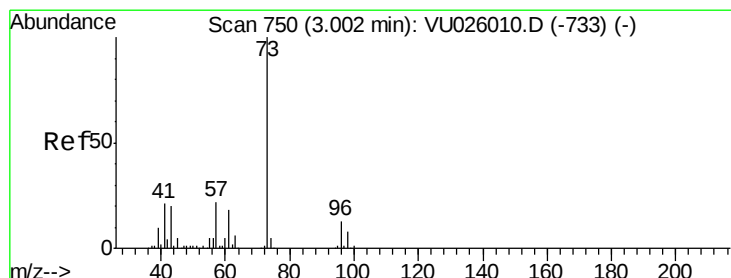
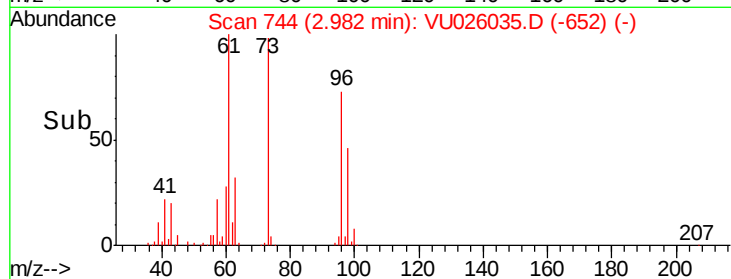
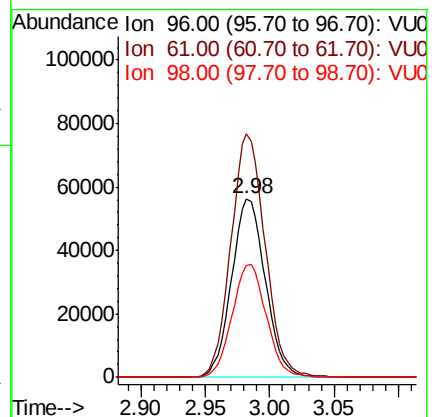
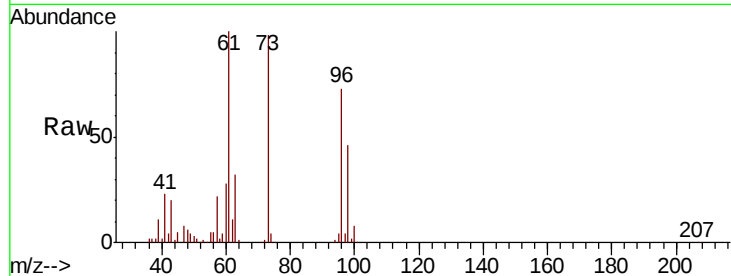
Tot Ion: 96 Resp: 102576

Ion Ratio Lower Upper

96 100

61 136.4 102.8 190.8

98 62.6 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 51.346 ug/L

RT: 3.00 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

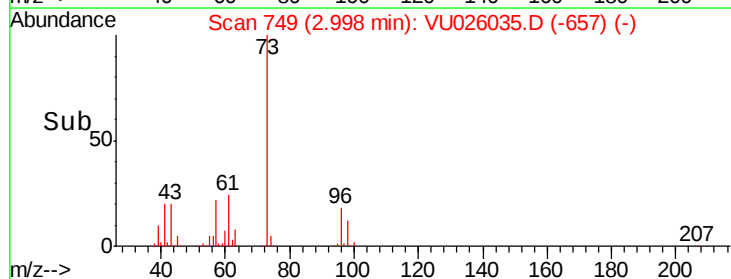
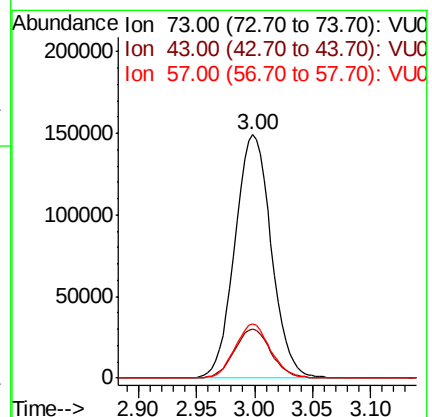
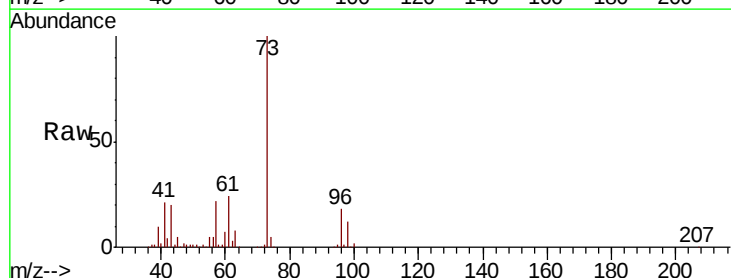
Tgt Ion: 73 Resp: 324739

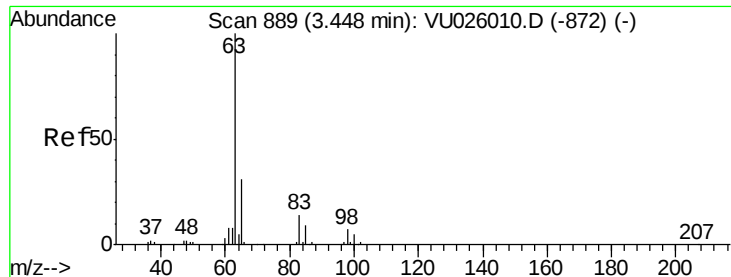
Ion Ratio Lower Upper

73 100

43 20.1 16.3 24.5

57 21.7 17.1 25.7

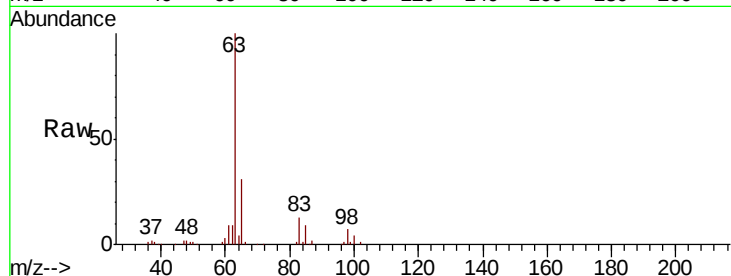




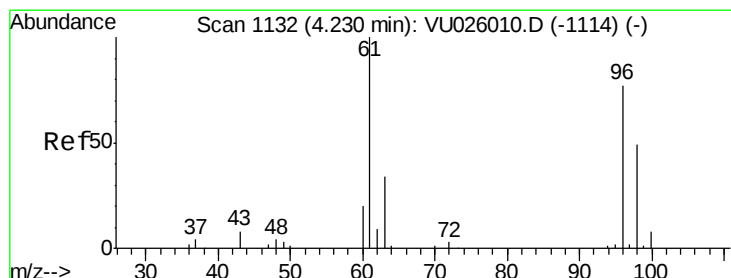
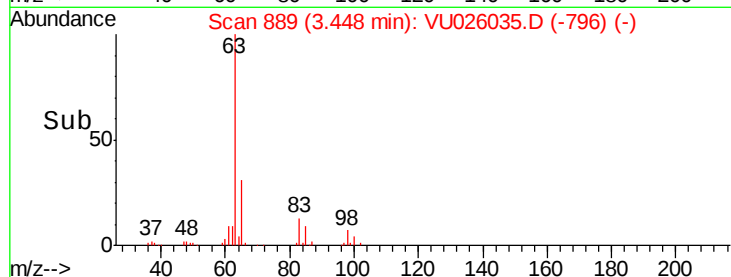
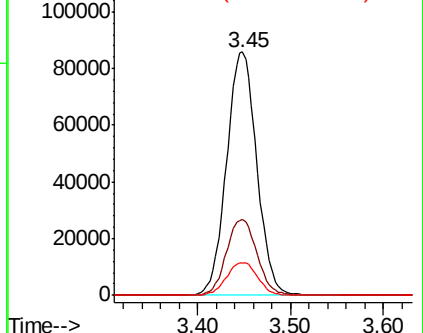
#19
 1,1-Dichloroethane
 Concen: 51.930 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. -0.00 min
 Lab File: VU026035.D
 Acq: 10 Aug 2018 10:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.0	22.4	41.6
83	13.2	10.1	18.9

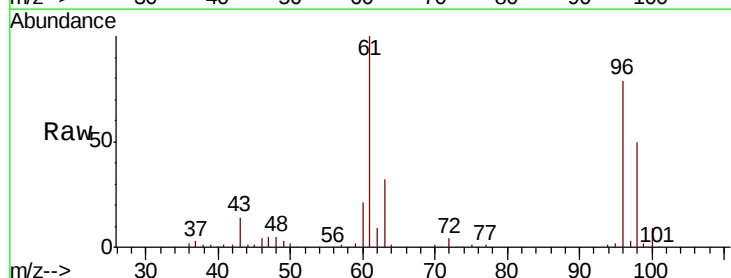


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

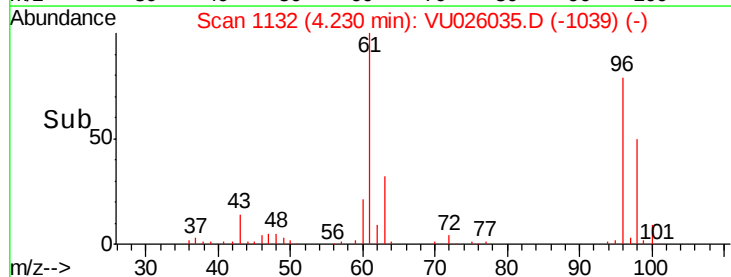
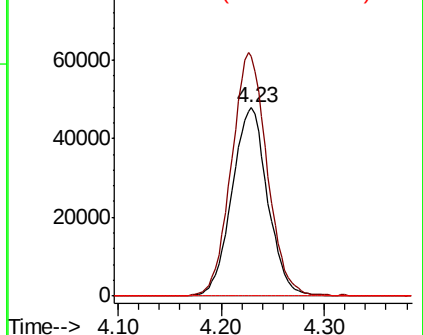


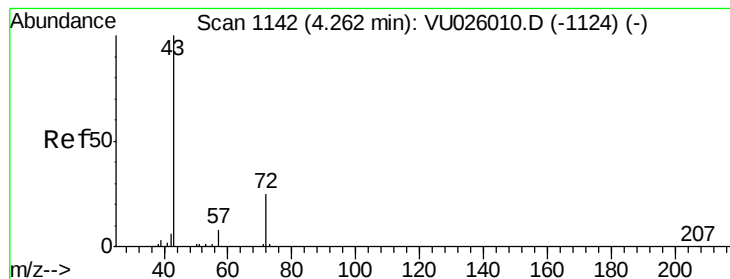
#20
 cis-1,2-Dichloroethene
 Concen: 52.138 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU026035.D
 Acq: 10 Aug 2018 10:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	127.0	90.7	168.5
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 108.392 ug/L

RT: 4.26 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

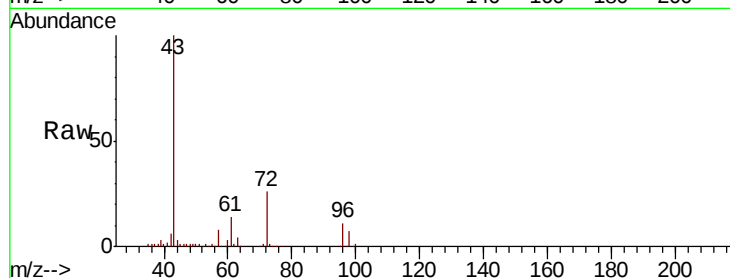
VSTD05051

Tot Ion: 43 Resp: 177570

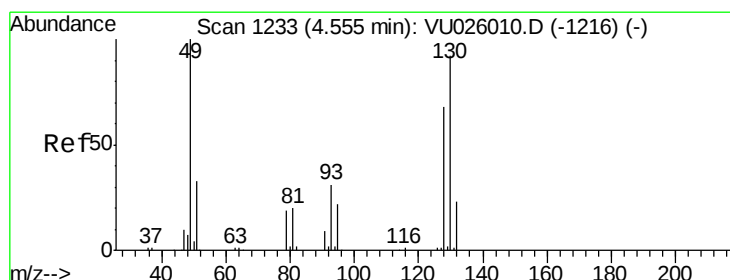
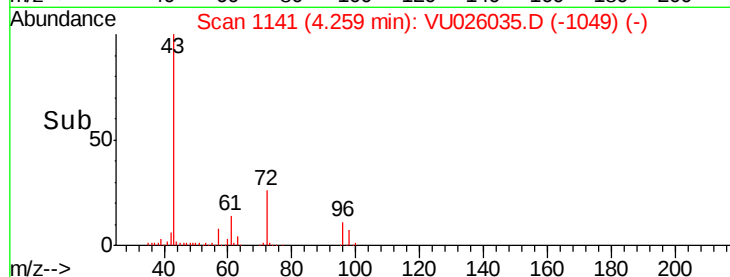
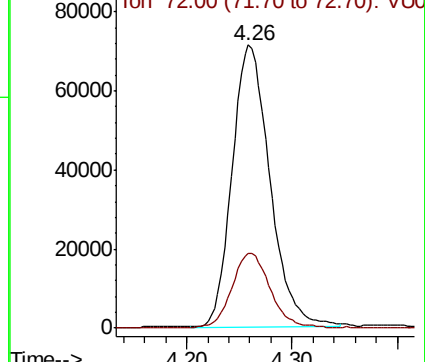
Ion Ratio Lower Upper

43 100

72 27.1 13.5 40.5



Abundance Ion 43.00 (42.70 to 43.70): VU026010.D (-1124) (-)



#23

Bromochloromethane

Concen: 53.492 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Tgt Ion: 128 Resp: 63088

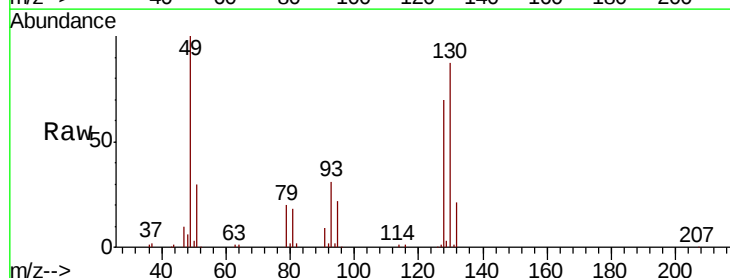
Ion Ratio Lower Upper

128 100

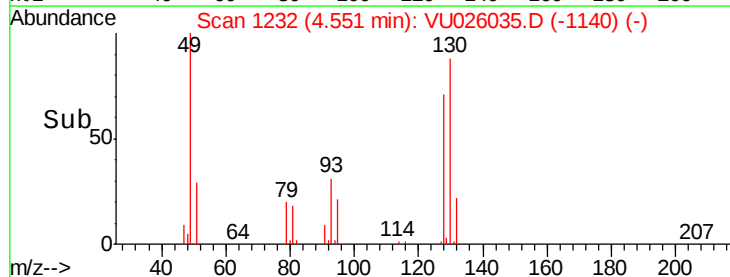
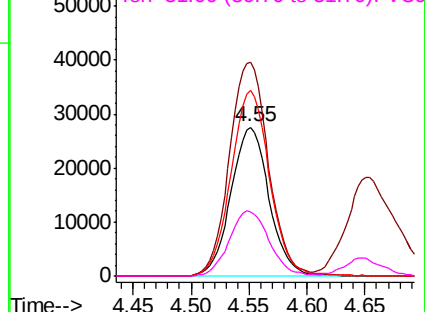
49 143.6 103.0 191.2

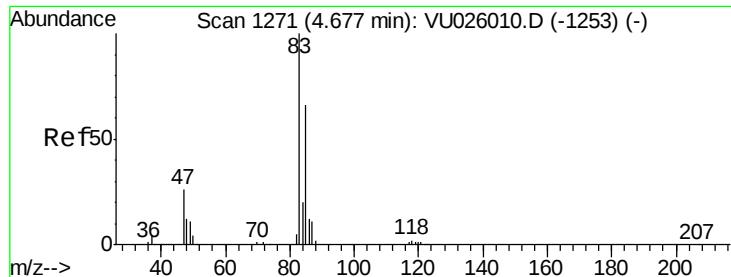
130 124.4 89.5 166.1

51 43.1 37.7 56.5



Abundance Ion 128.00 (127.70 to 128.70): VU026010.D (-1216) (-)





#25

Chloroform

Concen: 52.564 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

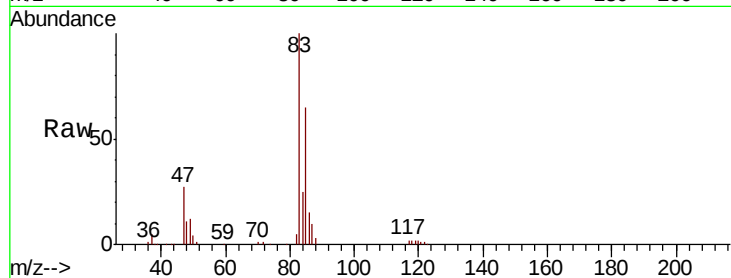
VSTD05051

Tot Ion: 83 Resp: 204308

Ion Ratio Lower Upper

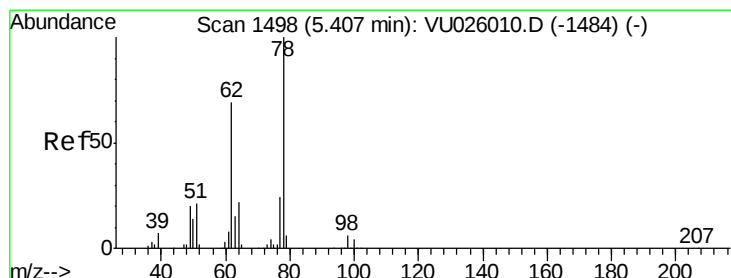
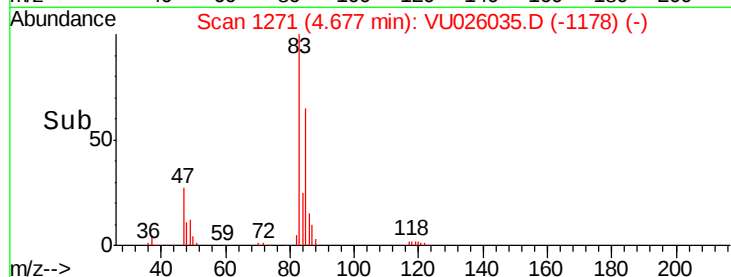
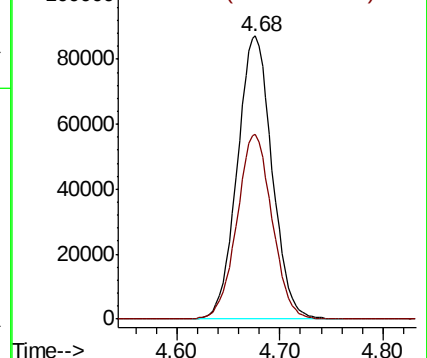
83 100

85 65.2 45.9 85.3



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 50.452 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU026035.D

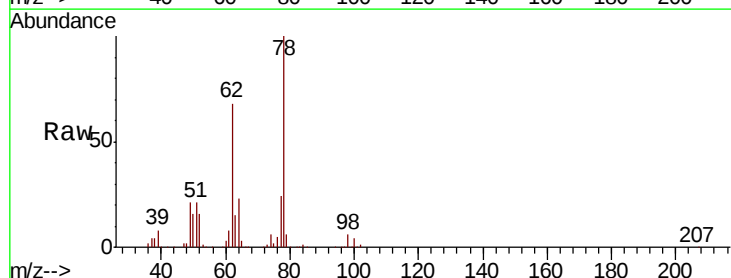
Acq: 10 Aug 2018 10:08

Tgt Ion: 62 Resp: 161965

Ion Ratio Lower Upper

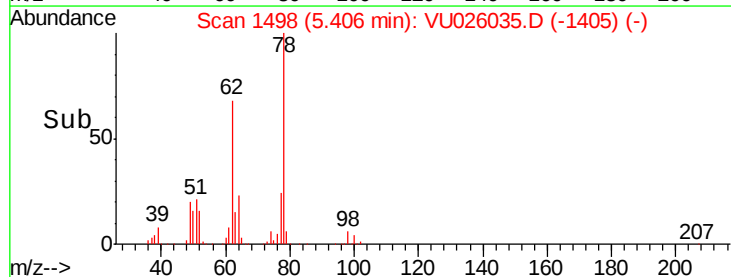
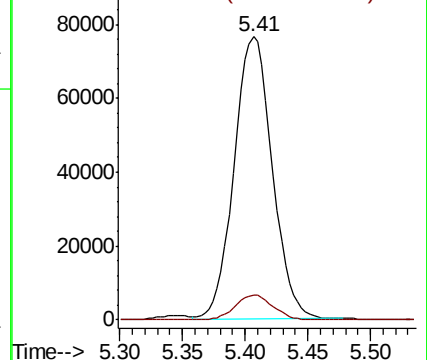
62 100

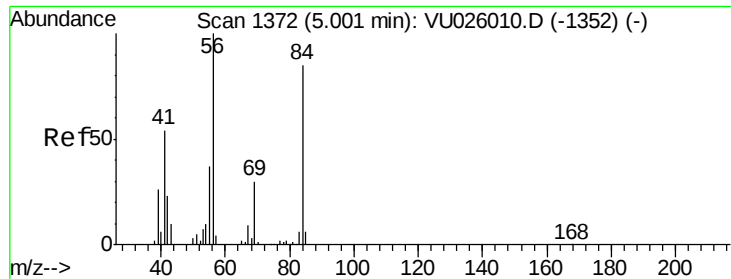
98 8.6 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

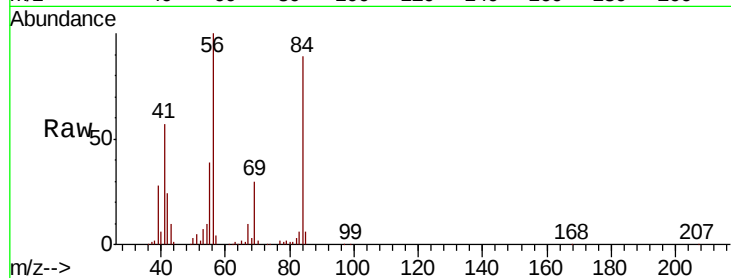




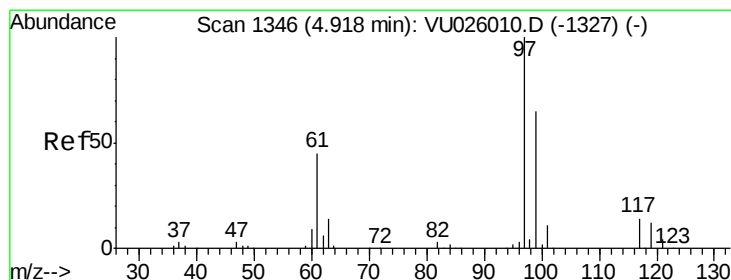
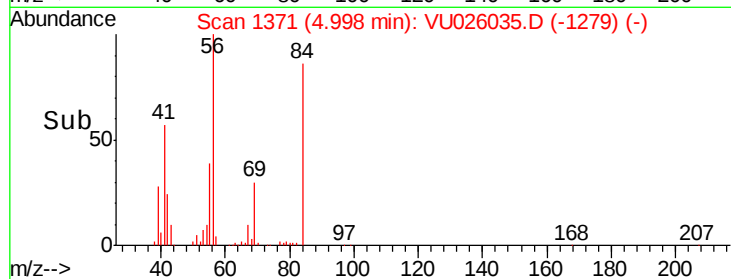
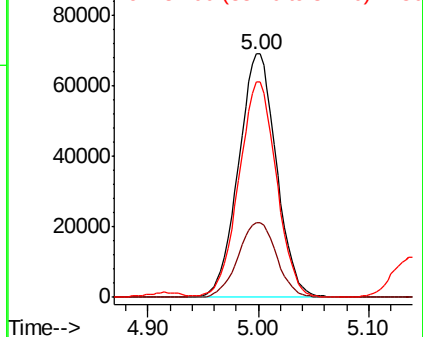
#29
Cyclohexane
Concen: 51.439 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU026035.D
Acq: 10 Aug 2018 10:08

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Tot Ion: 56 Resp: 164393
Ion Ratio Lower Upper
56 100
69 31.0 24.6 37.0
84 87.9 68.6 103.0

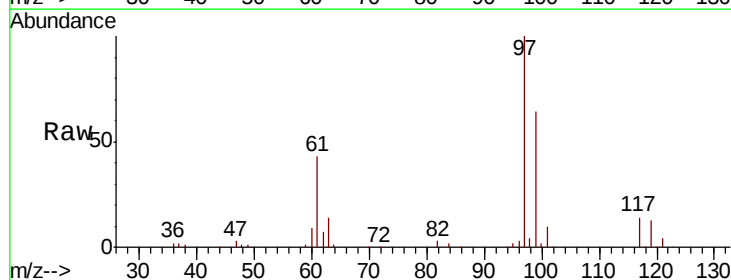


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

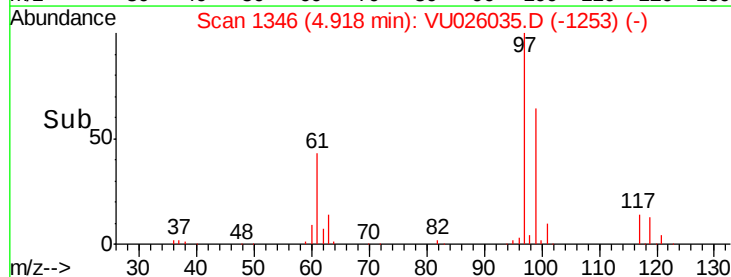
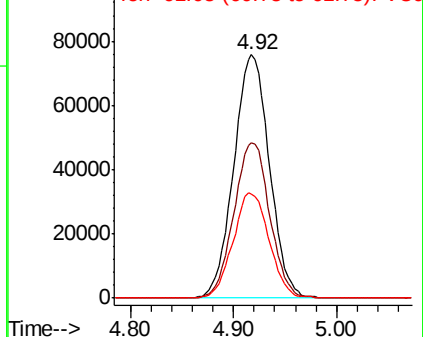


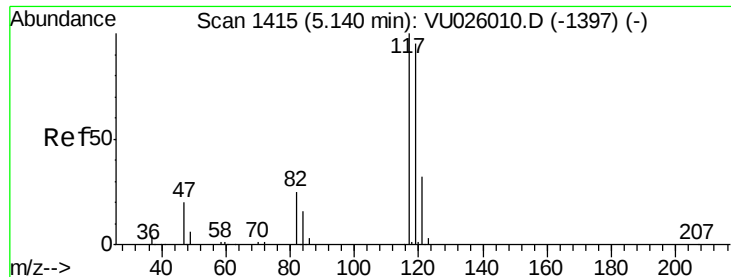
#30
1,1,1-Trichloroethane
Concen: 50.530 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU026035.D
Acq: 10 Aug 2018 10:08

Tgt Ion: 97 Resp: 182304
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 43.9 34.7 52.1



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 51.197 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

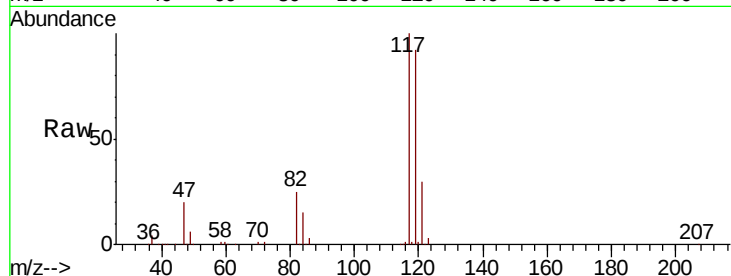
VSTD05051

Tot Ion:117 Resp: 168669

Ion Ratio Lower Upper

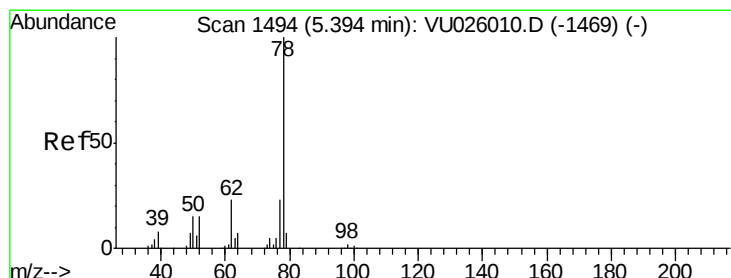
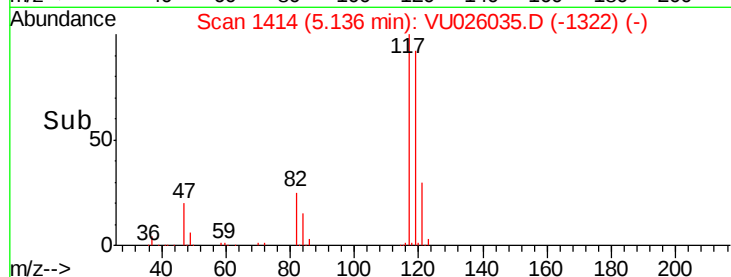
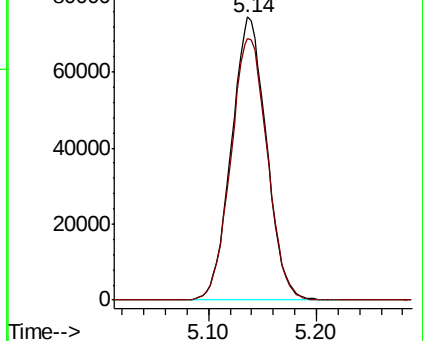
117 100

119 95.8 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.893 ug/L

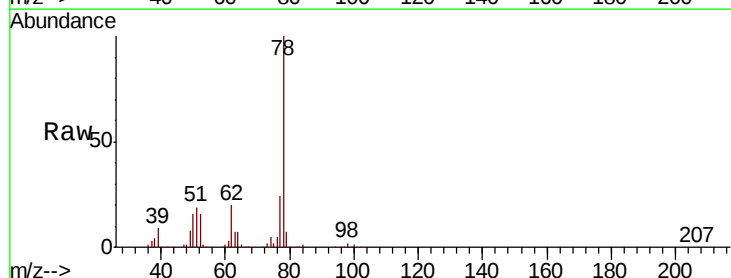
RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

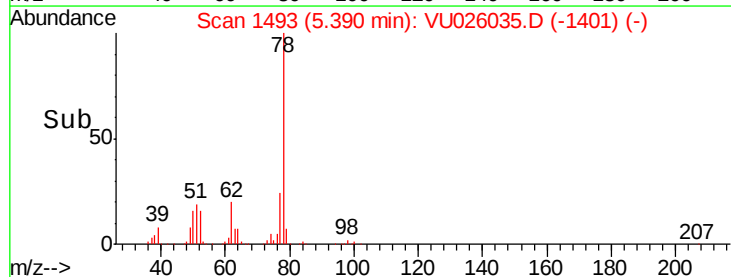
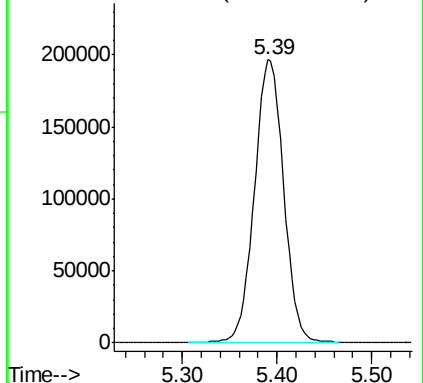
Lab File: VU026035.D

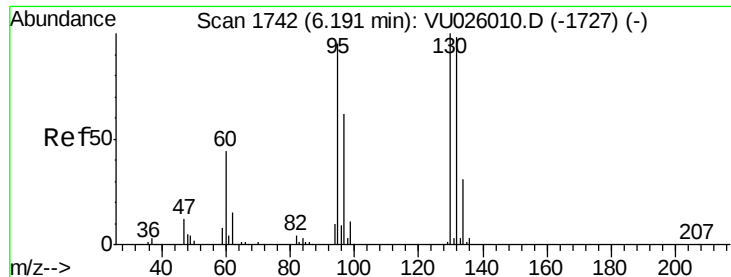
Acq: 10 Aug 2018 10:08

Tgt Ion: 78 Resp: 422634



Abundance Ion 78.00 (77.70 to 78.70): VU0

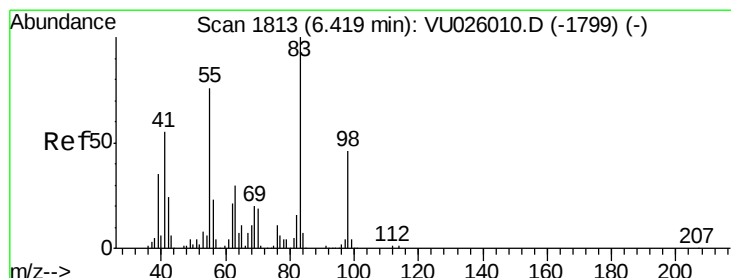
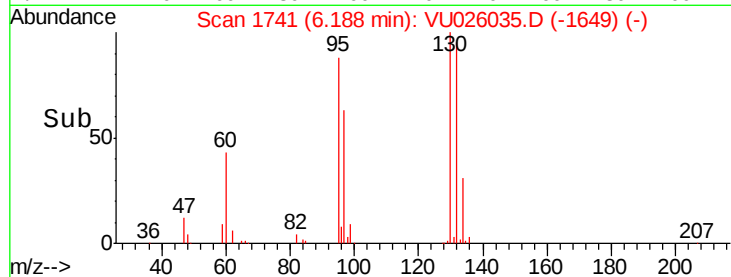
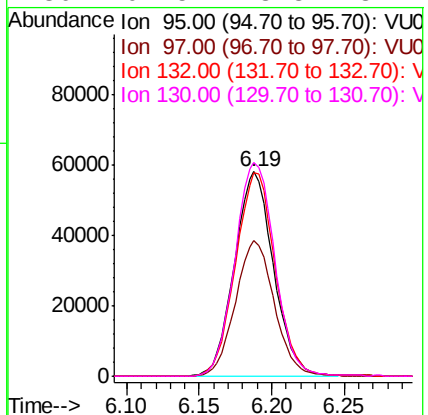
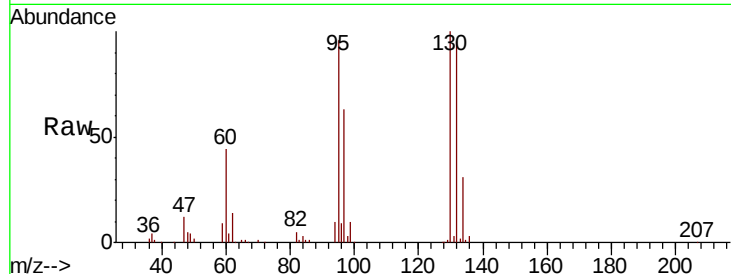




#34
 Trichloroethene
 Concen: 51.175 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU026035.D
 Acq: 10 Aug 2018 10:08

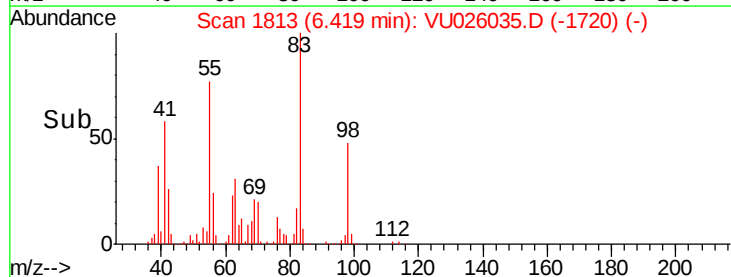
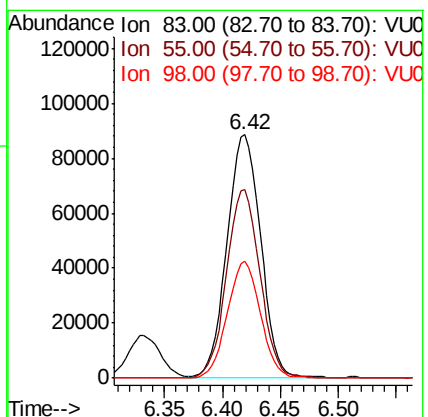
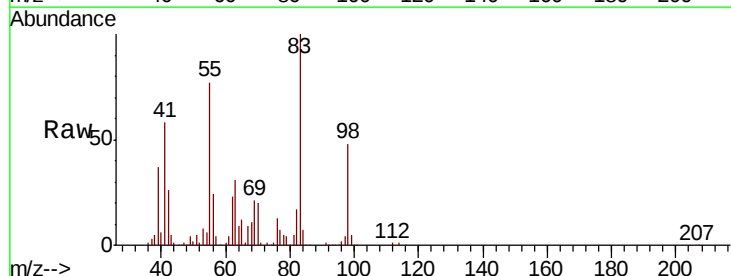
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

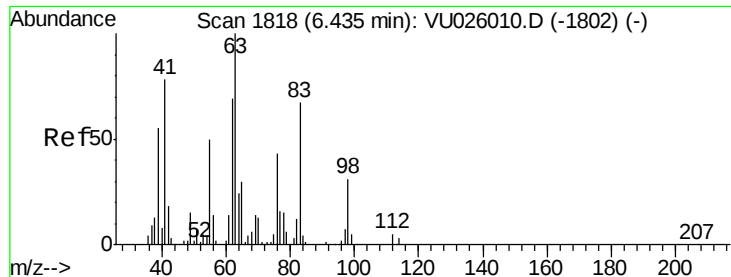
Tot Ion:	95	Resp:	108883
Ion	Ratio	Lower	Upper
95	100		
97	66.2	45.2	84.0
132	99.8	68.2	126.6
130	104.5	73.8	137.2



#35
 Methylcyclohexane
 Concen: 55.045 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU026035.D
 Acq: 10 Aug 2018 10:08

Tgt Ion:	83	Resp:	178827
Ion	Ratio	Lower	Upper
83	100		
55	76.7	61.0	91.6
98	46.9	38.1	57.1





#37

1,2-Dichloropropane

Concen: 52.033 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

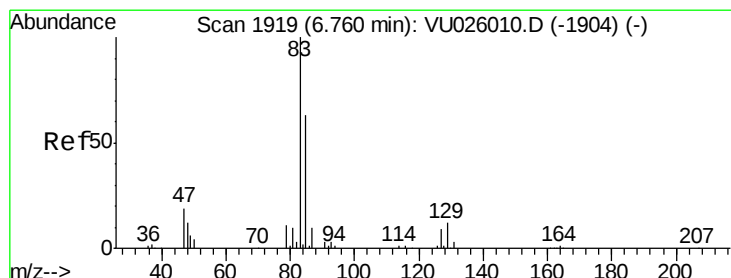
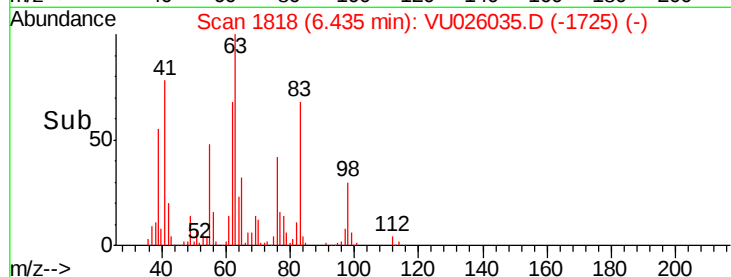
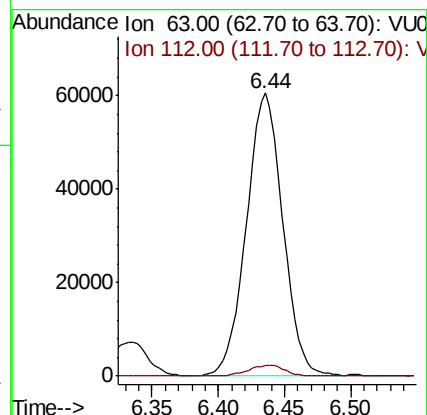
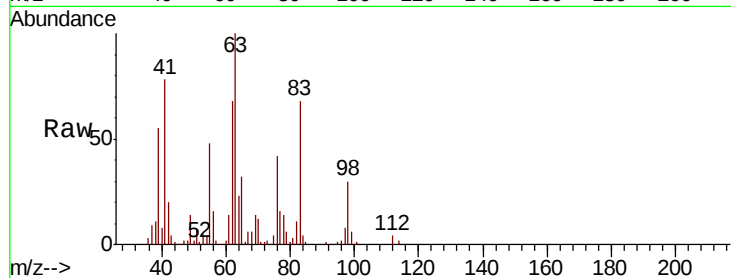
VSTD05051

Tot Ion: 63 Resp: 115953

Ion Ratio Lower Upper

63 100

112 4.0 3.2 4.8



#38

Bromodichloromethane

Concen: 51.679 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

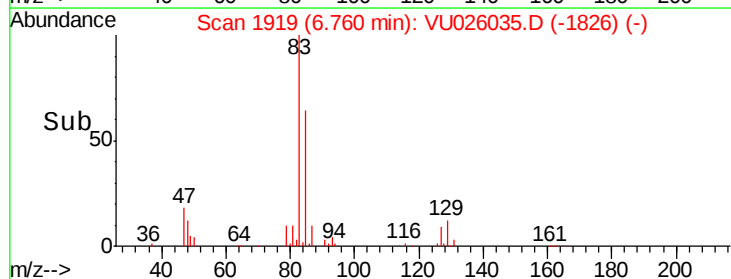
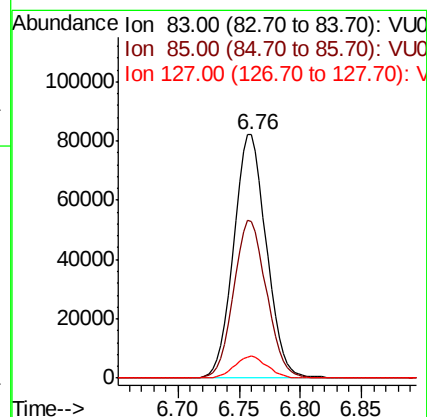
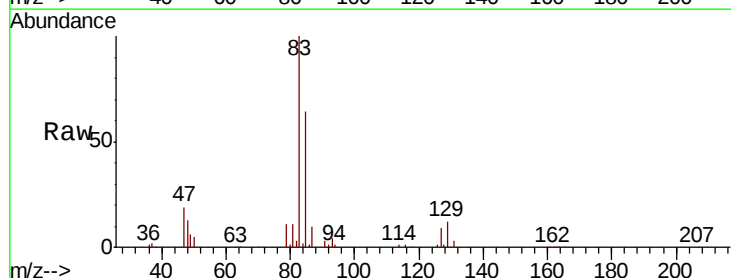
Tgt Ion: 83 Resp: 153428

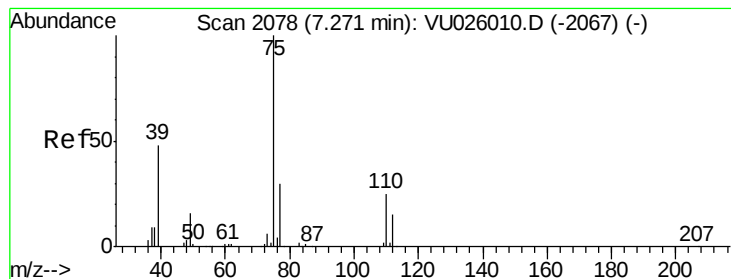
Ion Ratio Lower Upper

83 100

85 64.3 45.3 84.1

127 9.0 7.4 11.2





#39

cis-1,3-Dichloropropene

Concen: 53.912 ug/L

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

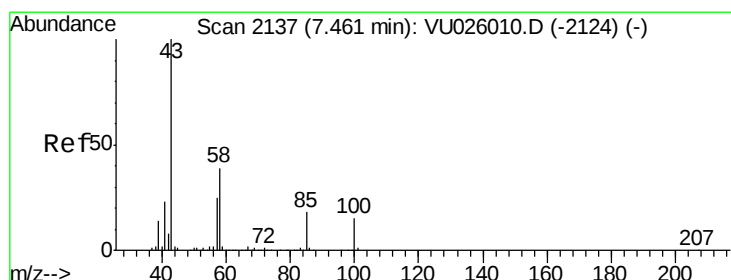
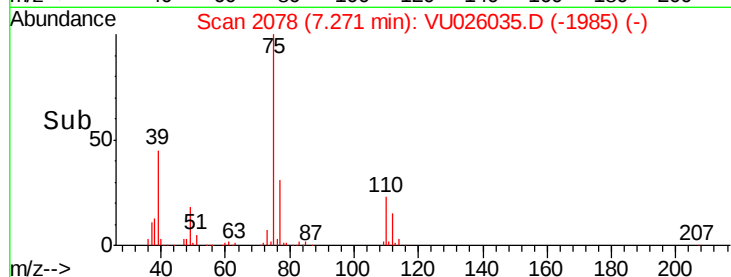
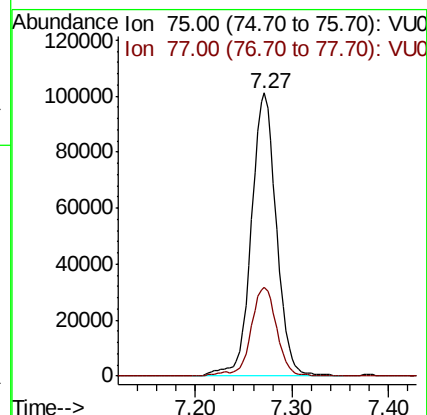
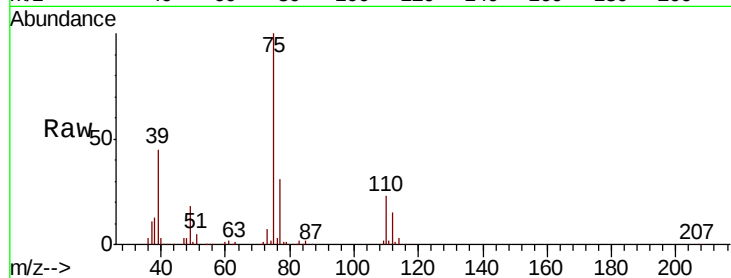
VSTD05051

Tot Ion: 75 Resp: 182080

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 95.231 ug/L

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

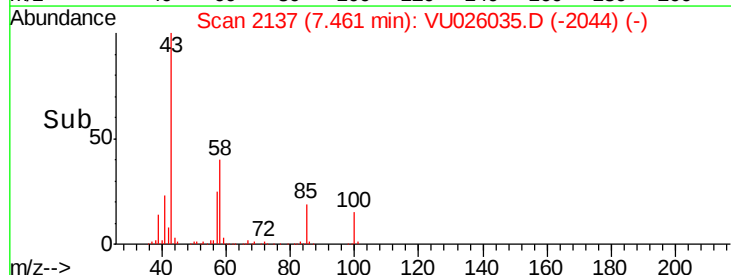
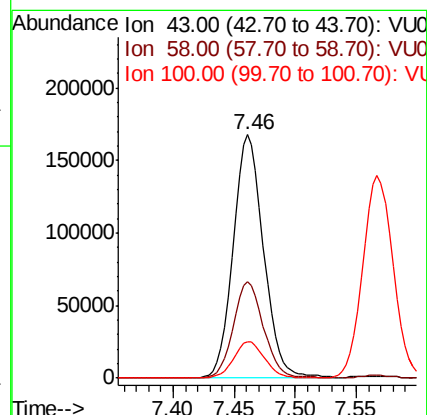
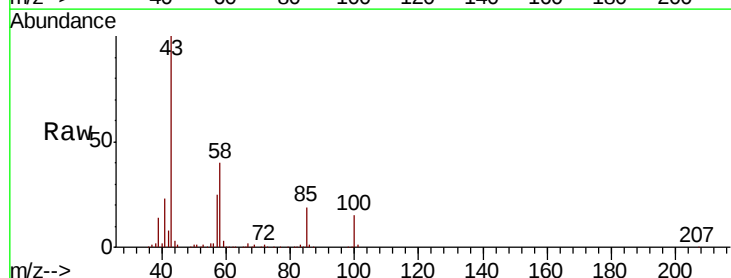
Tgt Ion: 43 Resp: 291585

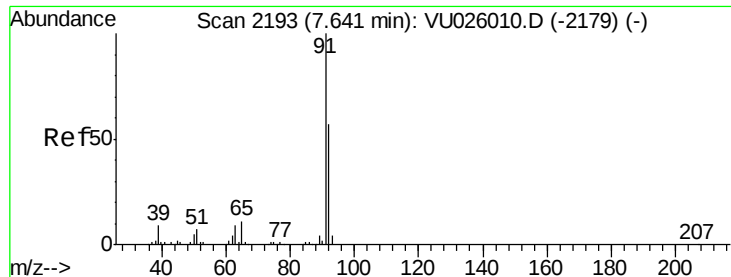
Ion Ratio Lower Upper

43 100

58 39.6 30.6 46.0

100 15.1 11.8 17.6





#42

Toluene

Concen: 53.355 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

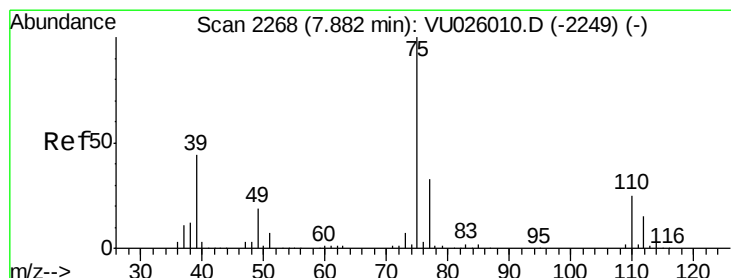
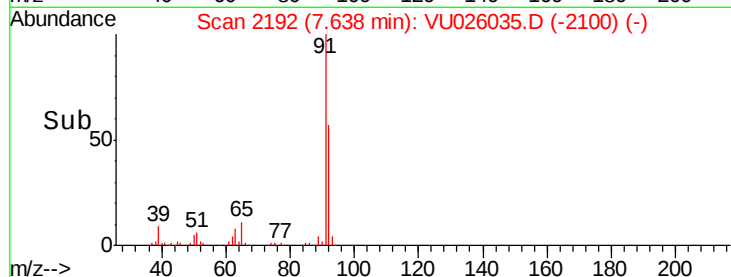
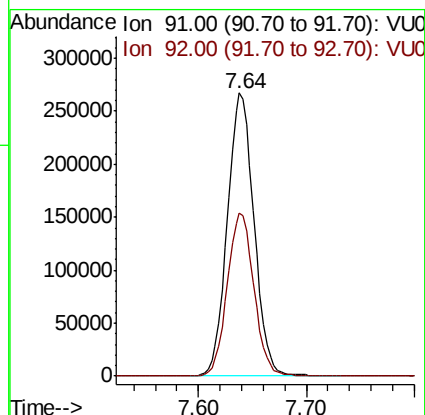
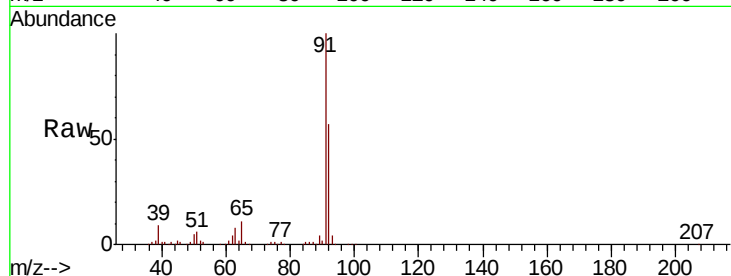
VSTD05051

Tot Ion: 91 Resp: 461233

Ion Ratio Lower Upper

91 100

92 57.5 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 54.054 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026035.D

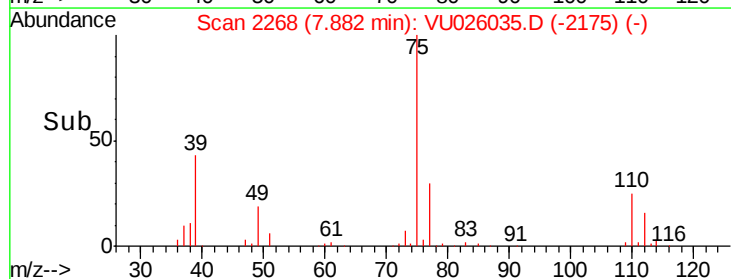
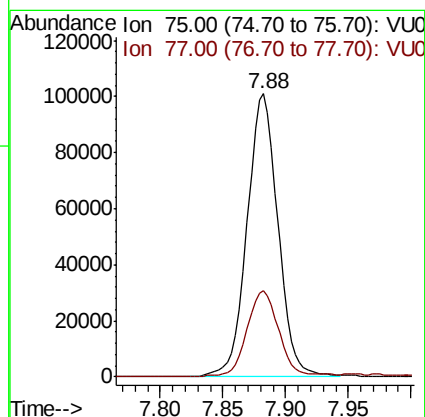
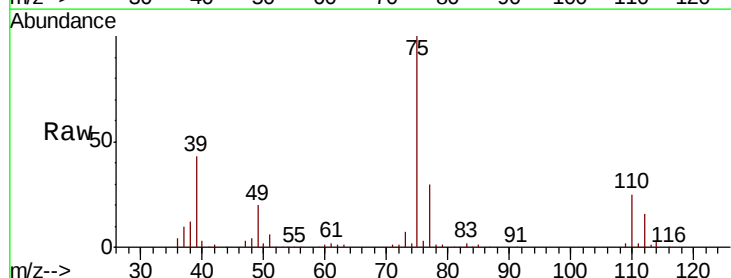
Acq: 10 Aug 2018 10:08

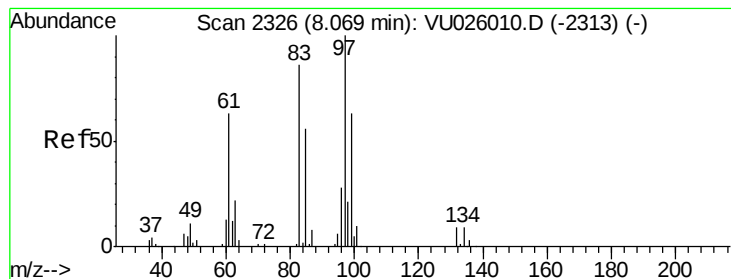
Tgt Ion: 75 Resp: 173767

Ion Ratio Lower Upper

75 100

77 30.3 23.0 42.6





#45

1,1,2-Trichloroethane

Concen: 51.386 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleID :

VSTD05051

Tot Ion: 97 Resp: 109173

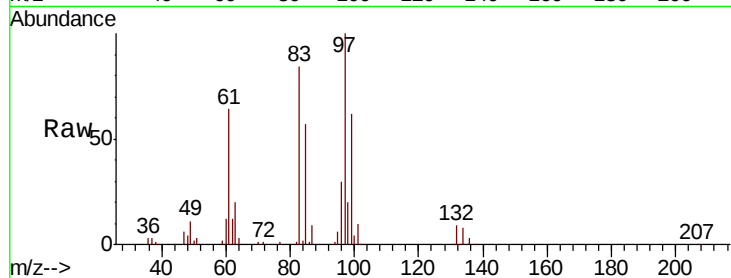
Ion Ratio Lower Upper

97 100

99 62.0 41.6 77.2

83 84.5 59.0 109.6

85 56.6 37.9 70.5

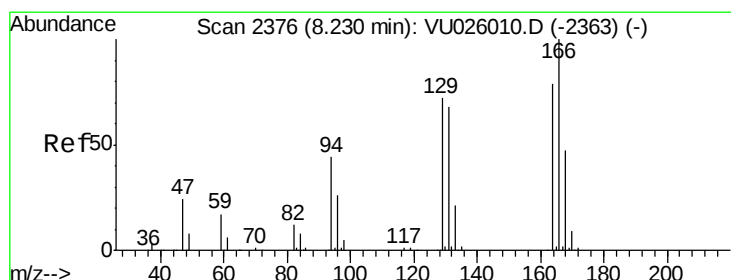
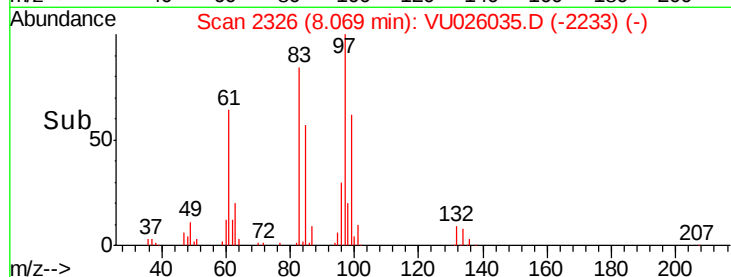
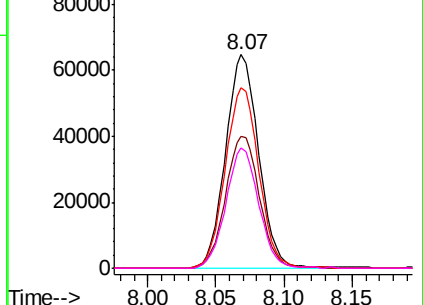


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 54.059 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Tgt Ion: 164 Resp: 97884

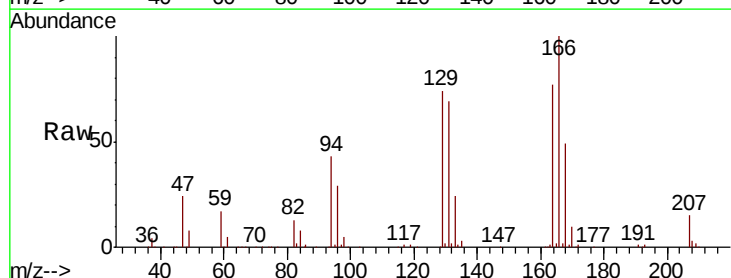
Ion Ratio Lower Upper

164 100

129 95.3 64.8 120.3

131 89.3 62.8 116.6

166 129.3 89.0 165.4

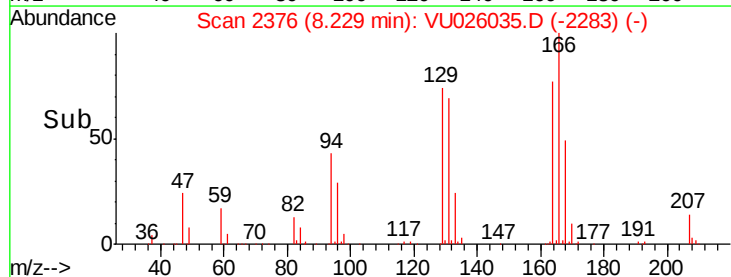
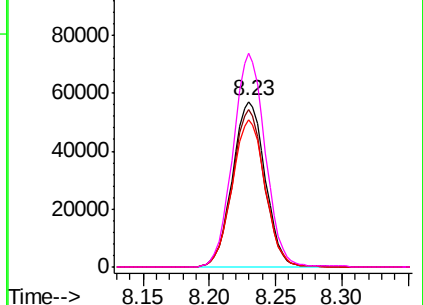


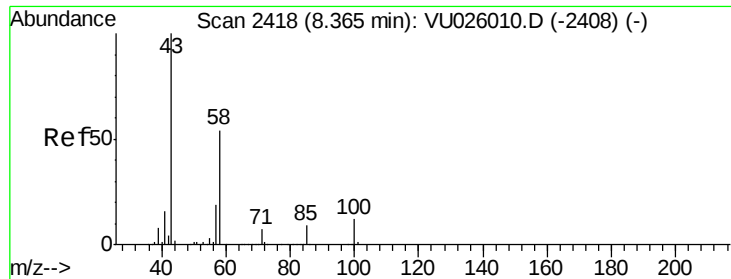
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

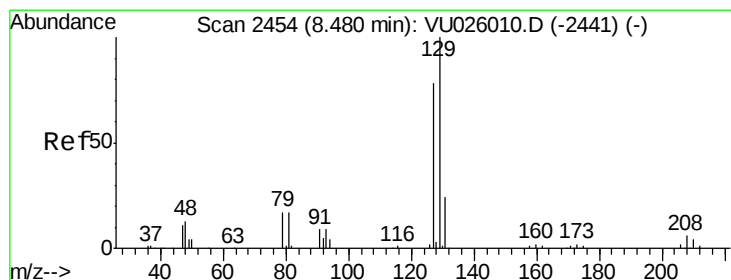
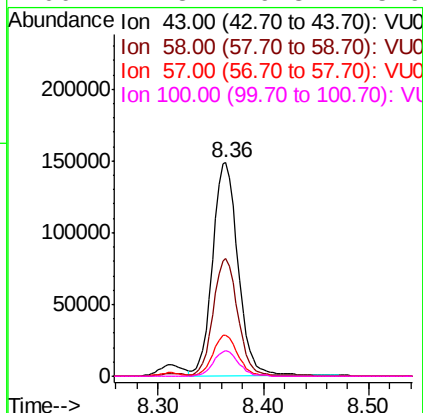
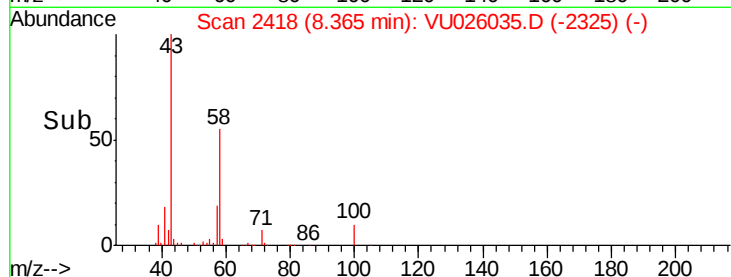
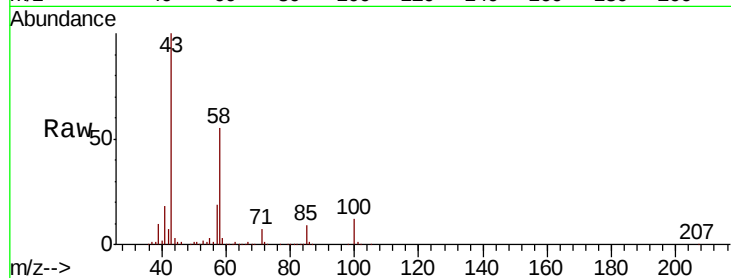




#48
2-Hexanone
Concen: 104.446 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU026035.D
Acq: 10 Aug 2018 10:08

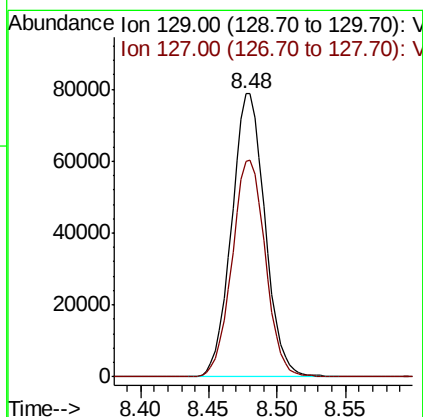
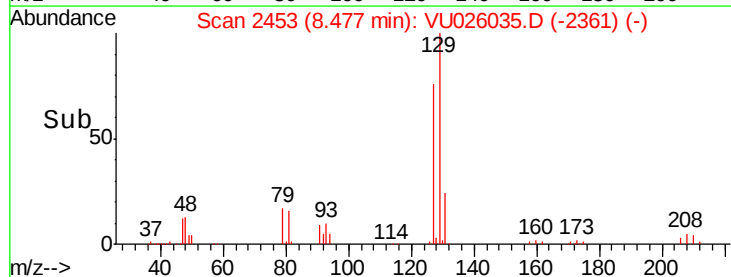
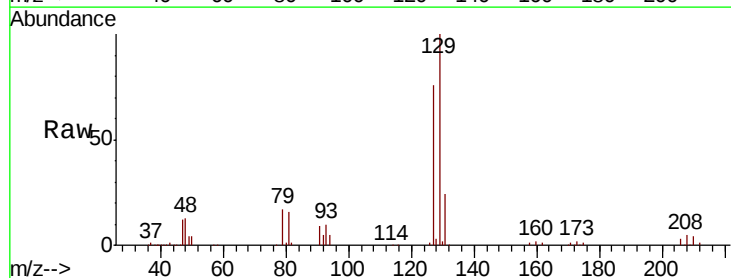
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

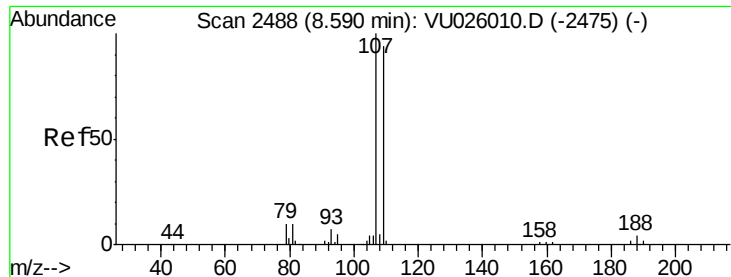
Tot Ion: 43 Resp: 249148
Ion Ratio Lower Upper
43 100
58 53.1 43.6 65.4
57 19.1 15.1 22.7
100 11.8 9.3 13.9



#49
Dibromochloromethane
Concen: 52.307 ug/L
RT: 8.48 min Scan# 2453
Delta R.T. -0.00 min
Lab File: VU026035.D
Acq: 10 Aug 2018 10:08

Tgt Ion: 129 Resp: 134007
Ion Ratio Lower Upper
129 100
127 76.3 53.5 99.3

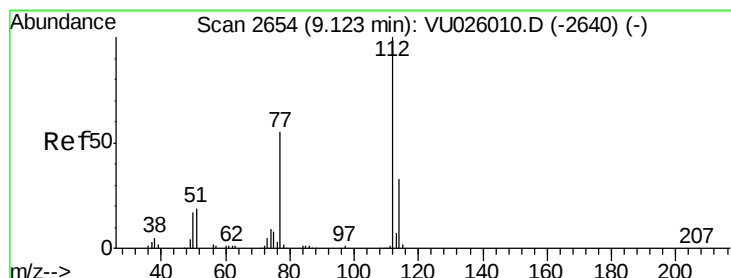
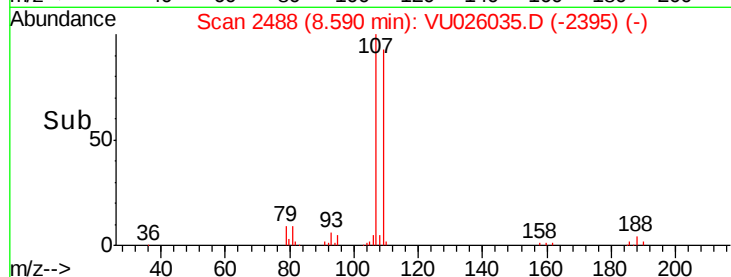
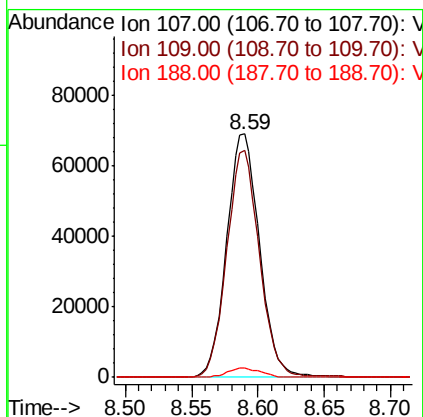
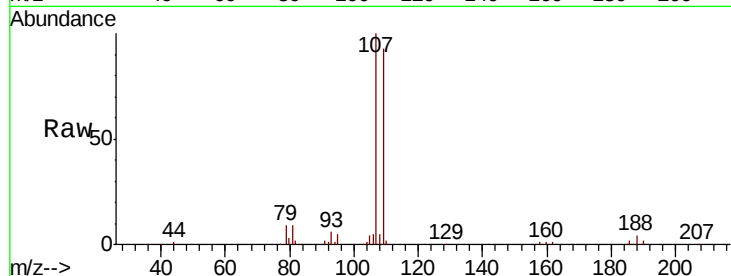




#50
 1,2-Dibromoethane
 Concen: 51.468 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU026035.D
 Acq: 10 Aug 2018 10:08

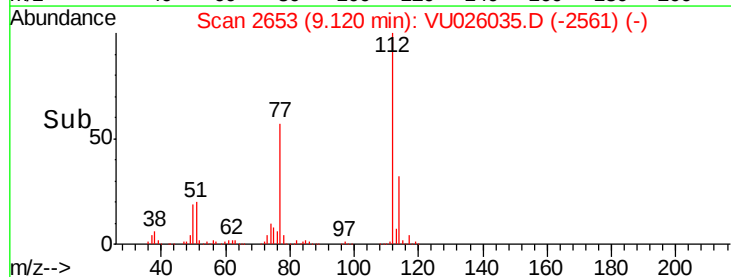
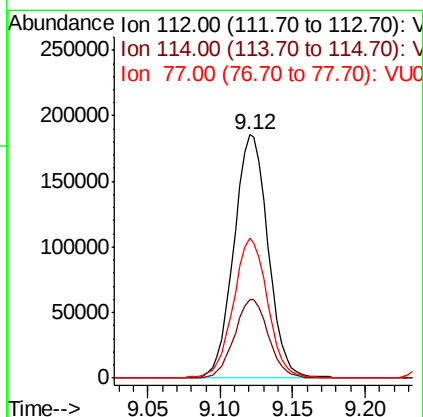
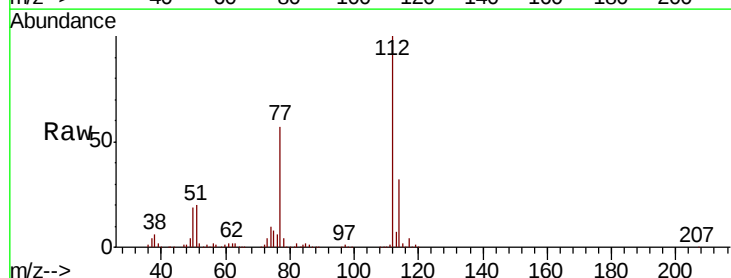
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

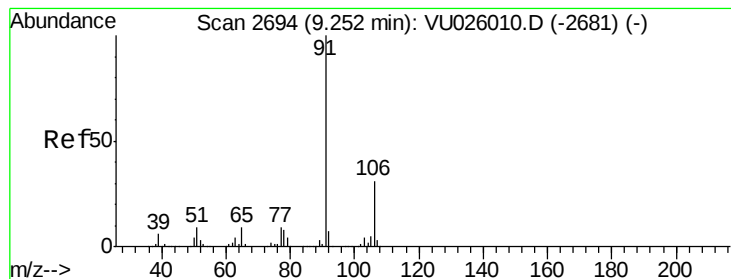
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	66.1	122.7
188	3.8	2.9	4.3



#51
 Chlorobenzene
 Concen: 52.111 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU026035.D
 Acq: 10 Aug 2018 10:08

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.7	42.3
77	57.3	45.2	67.8





#52

Ethylbenzene

Concen: 53.117 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

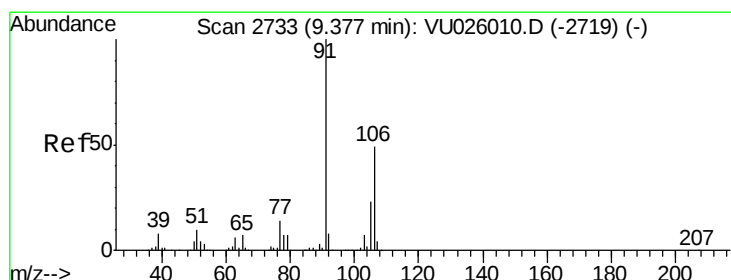
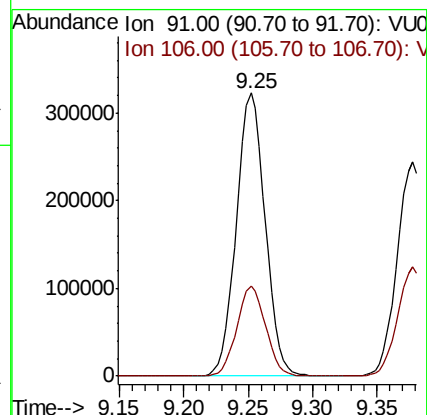
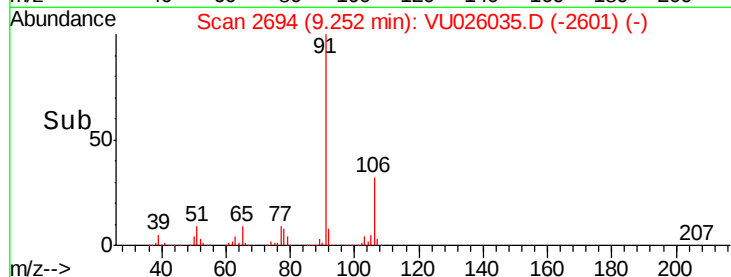
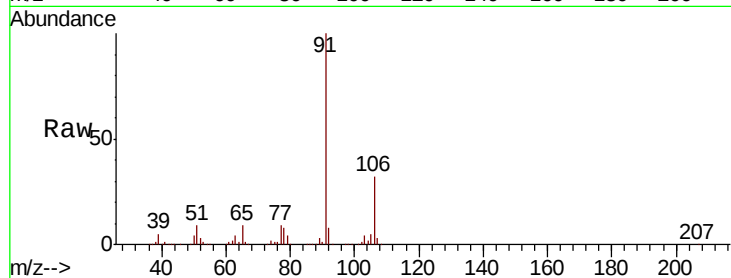
VSTD05051

Tot Ion: 91 Resp: 502445

Ion Ratio Lower Upper

91 100

106 31.8 22.0 41.0



#53

m,p-Xylene

Concen: 54.498 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026035.D

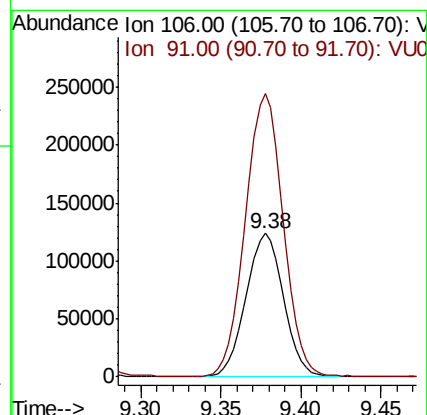
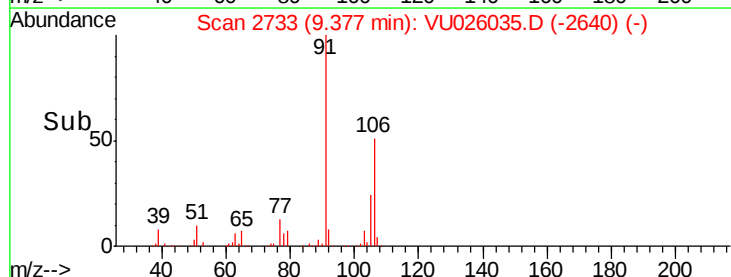
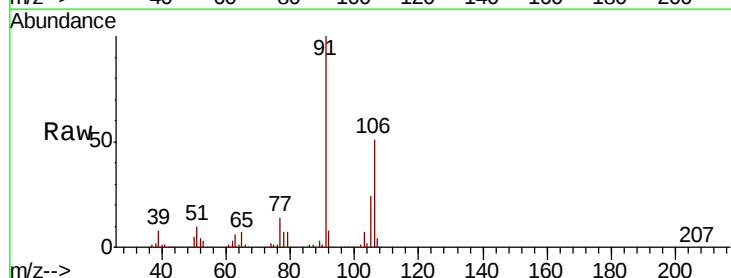
Acq: 10 Aug 2018 10:08

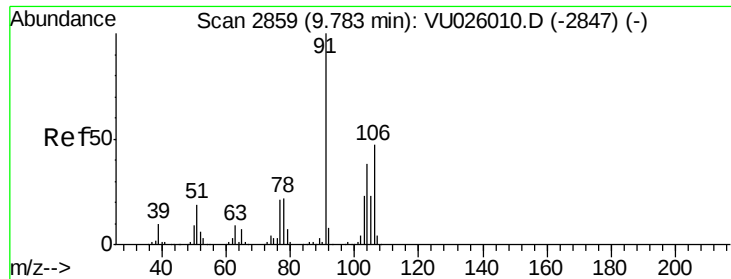
Tgt Ion: 106 Resp: 196982

Ion Ratio Lower Upper

106 100

91 196.8 141.3 262.5





#54

o-xylene

Concen: 54.104 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

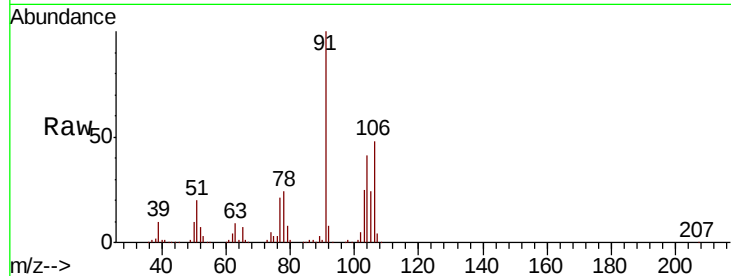
VSTD05051

Tot Ion:106 Resp: 194090

Ion Ratio Lower Upper

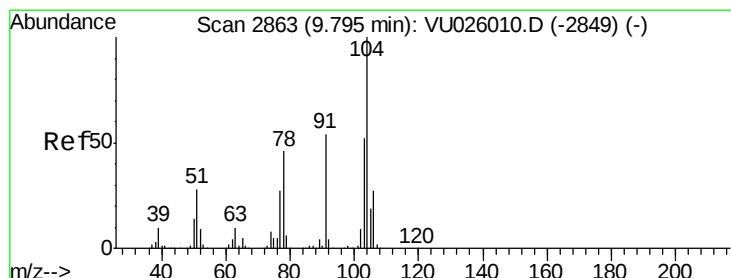
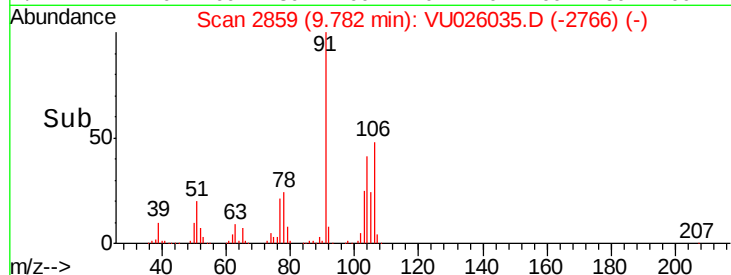
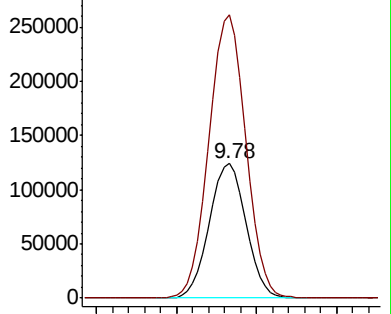
106 100

91 209.9 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.124 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026035.D

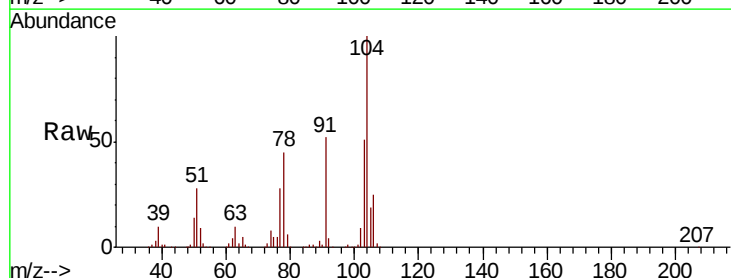
Acq: 10 Aug 2018 10:08

Tgt Ion:104 Resp: 329226

Ion Ratio Lower Upper

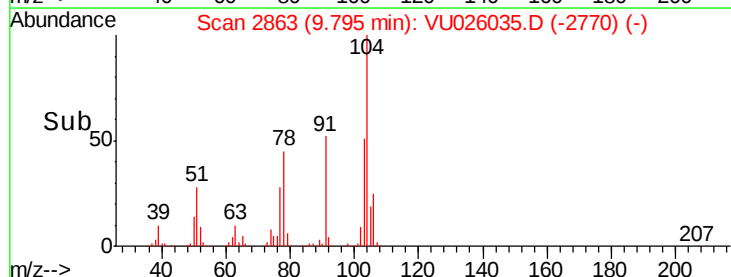
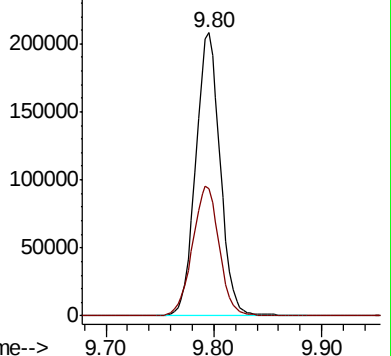
104 100

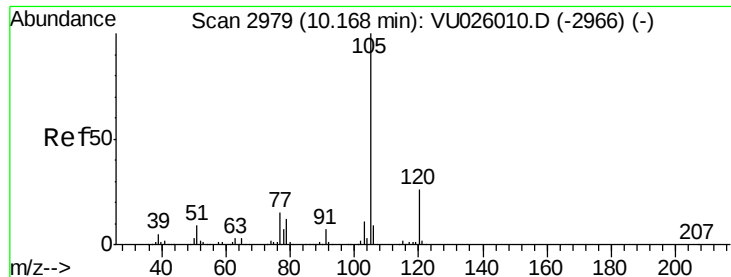
78 44.8 32.1 59.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 55.246 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

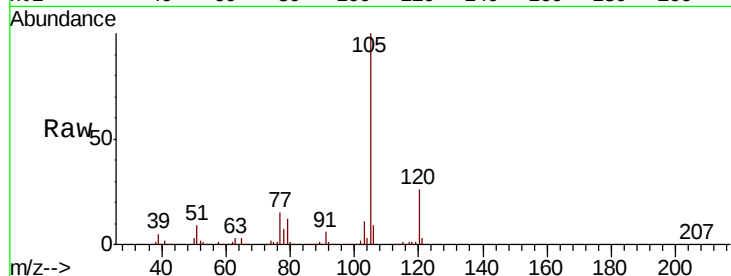
Tot Ion:105 Resp: 510565

Ion Ratio Lower Upper

105 100

120 26.6 21.7 32.5

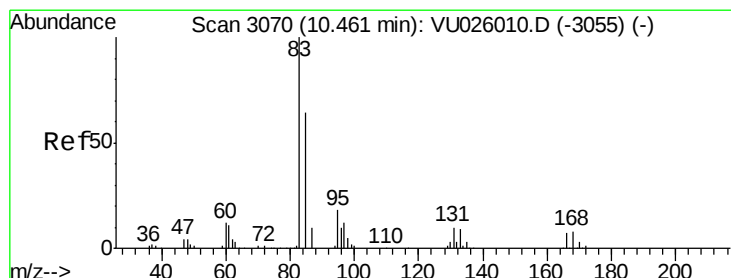
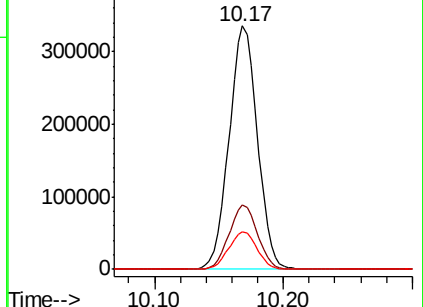
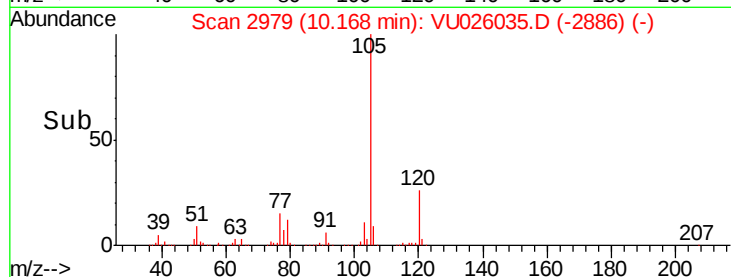
77 15.5 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.522 ug/L

RT: 10.46 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

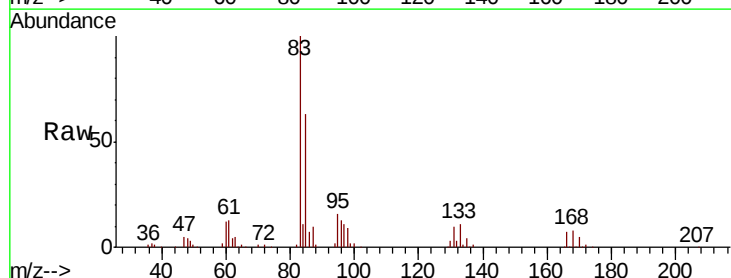
Tgt Ion: 83 Resp: 182427

Ion Ratio Lower Upper

83 100

85 62.7 45.0 83.6

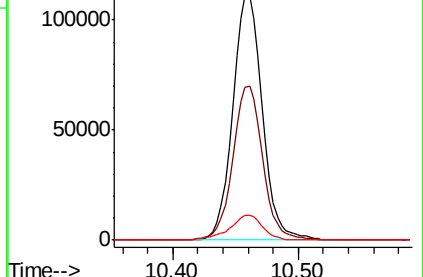
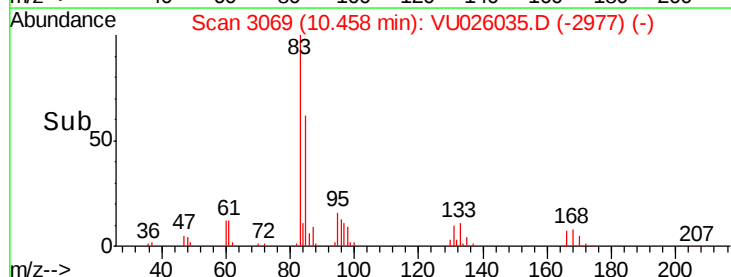
131 10.2 8.6 12.8

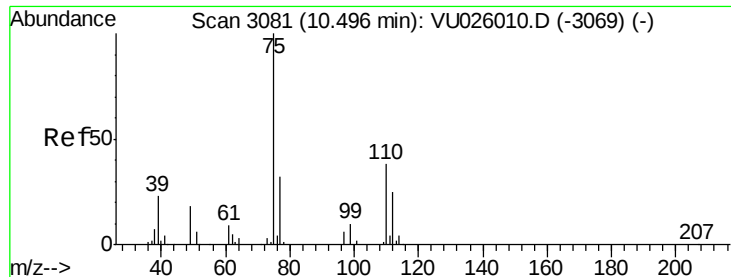


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.206 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

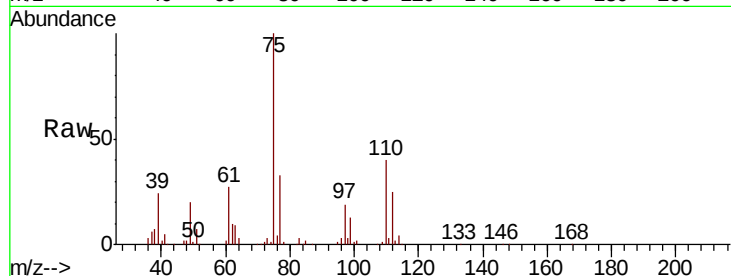
VSTD05051

Tot Ion: 75 Resp: 141420

Ion Ratio Lower Upper

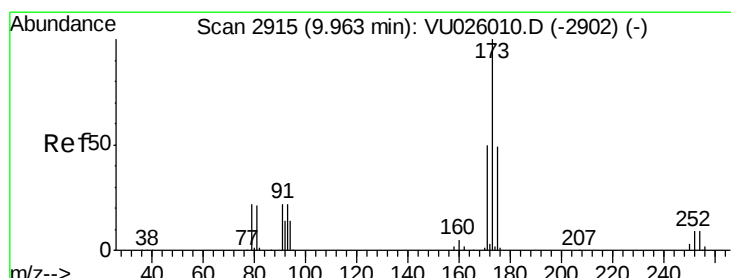
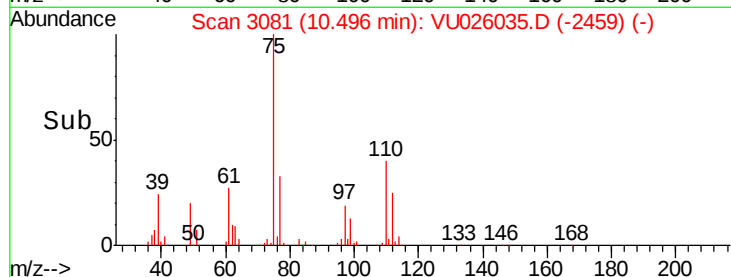
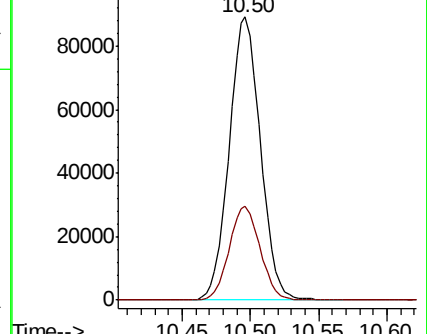
75 100

77 32.9 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 50.077 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

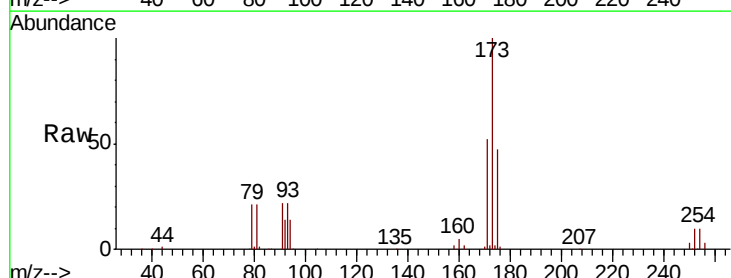
Tgt Ion: 173 Resp: 98932

Ion Ratio Lower Upper

173 100

175 48.4 38.9 58.3

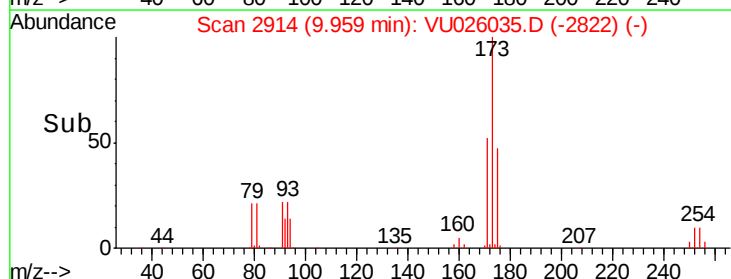
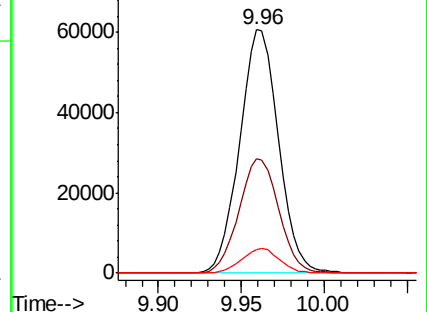
254 9.9 7.4 11.0

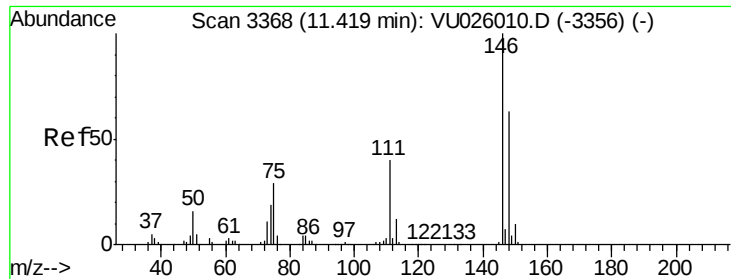


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#62

1,3-Dichlorobenzene

Concen: 52.283 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

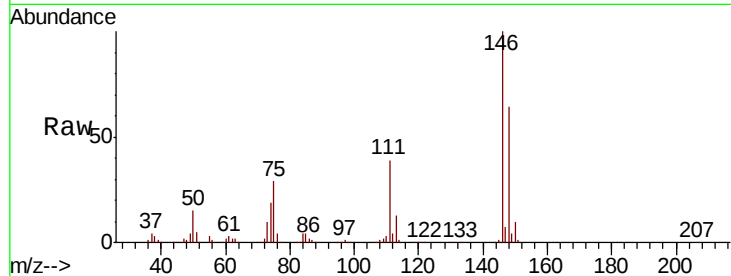
Tot Ion:146 Resp: 237498

Ion Ratio Lower Upper

146 100

111 39.5 27.9 51.9

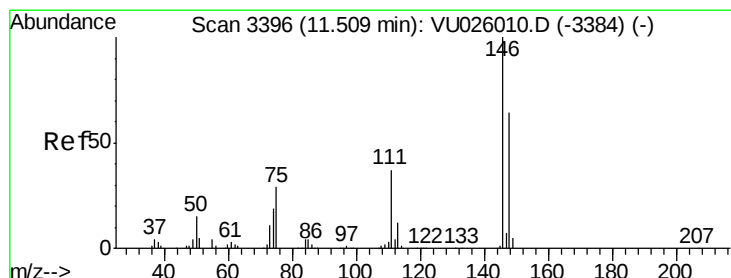
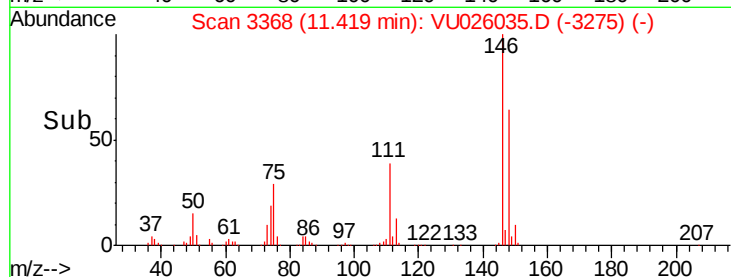
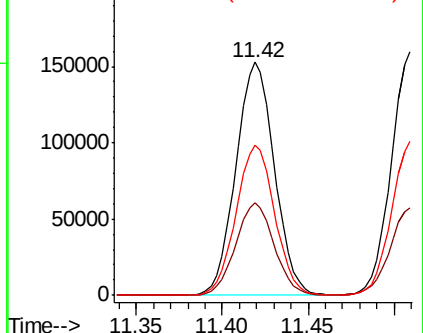
148 64.3 46.0 85.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 51.909 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

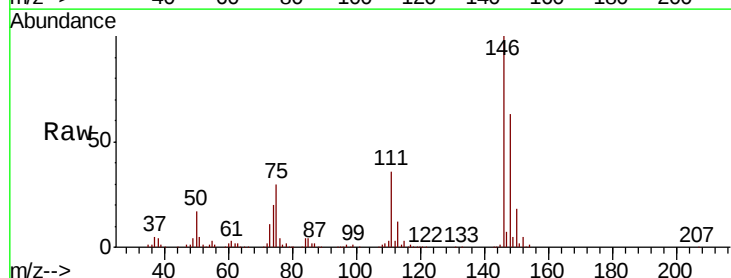
Tgt Ion:146 Resp: 247189

Ion Ratio Lower Upper

146 100

111 35.9 26.4 49.0

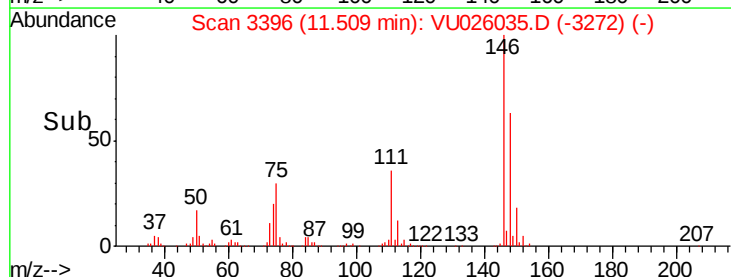
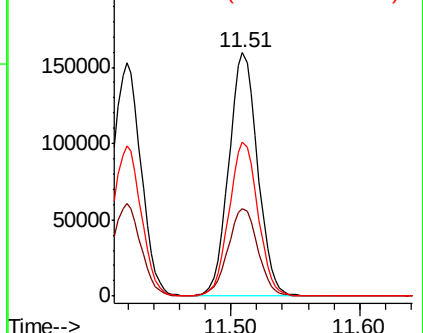
148 63.1 43.8 81.4

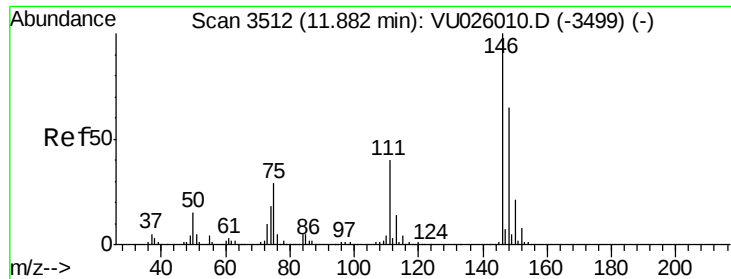


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 52.922 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

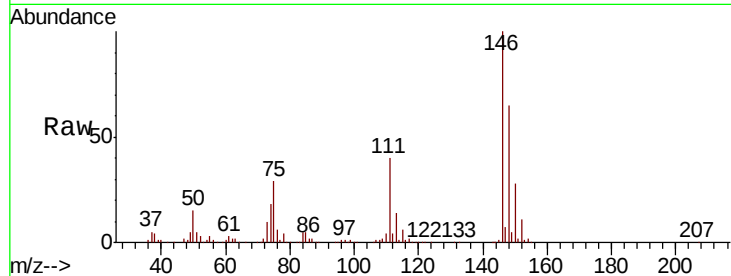
Tot Ion:146 Resp: 255888

Ion Ratio Lower Upper

146 100

111 39.7 32.4 48.6

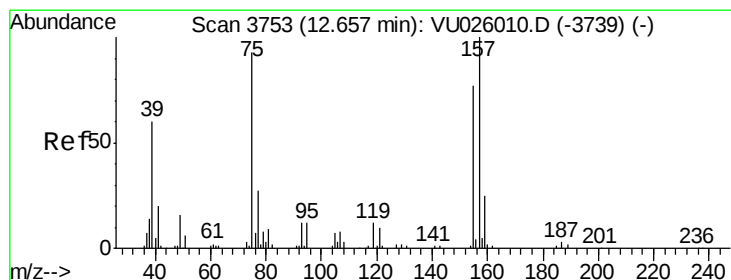
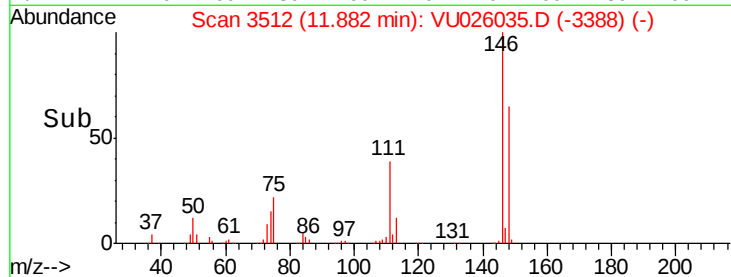
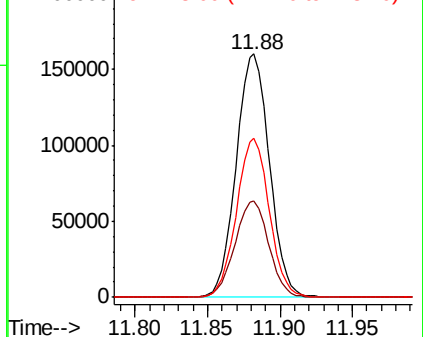
148 65.1 50.1 75.1



Abundance Ion 146.00 (145.70 to 146.70): 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: 45.602 ug/L

RT: 12.66 min Scan# 3753

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

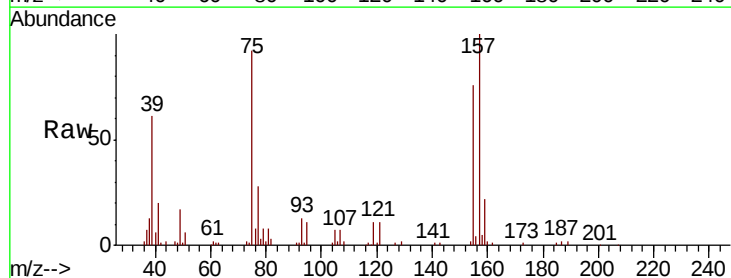
Tgt Ion: 75 Resp: 38700

Ion Ratio Lower Upper

75 100

155 82.2 71.8 107.8

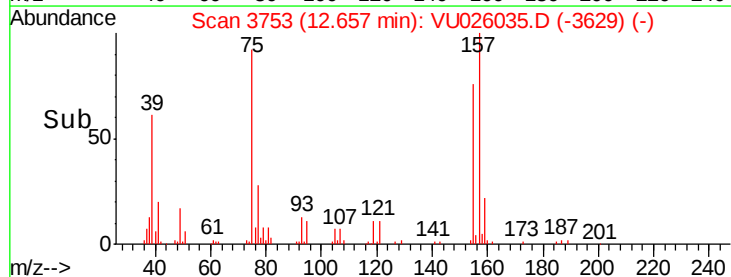
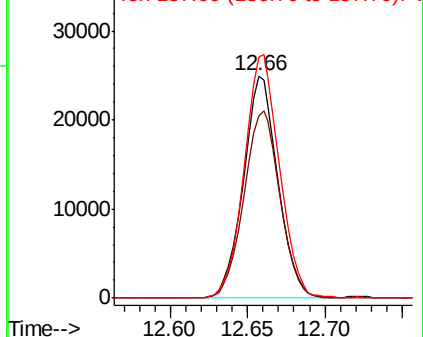
157 108.6 93.0 139.6

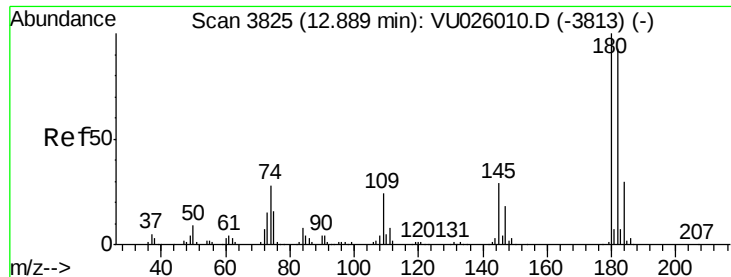


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

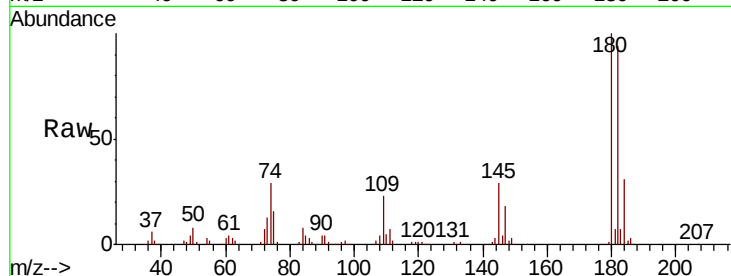




#67
 1,3,5-Trichlorobenzene
 Concen: 55.095 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU026035.D
 Acq: 10 Aug 2018 10:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.5	114.7
184	30.9	24.3	36.5
145	28.6	23.5	35.3



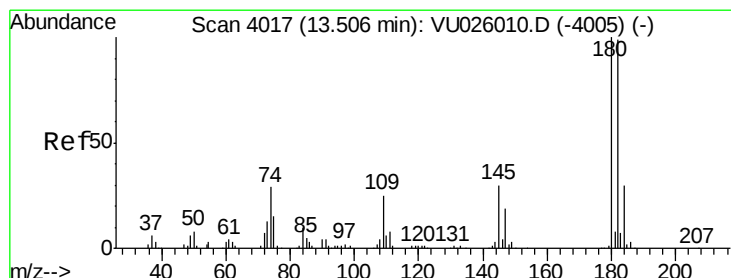
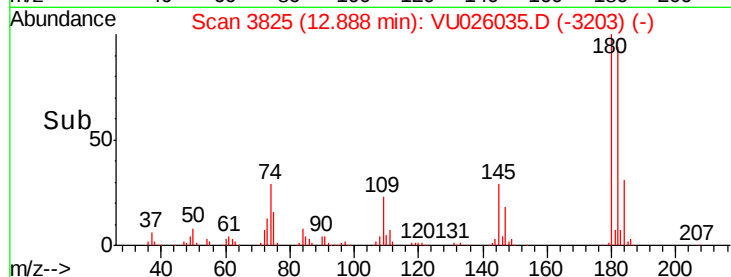
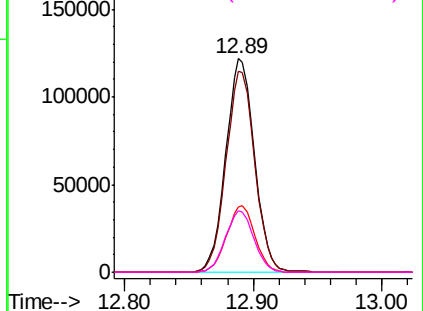
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

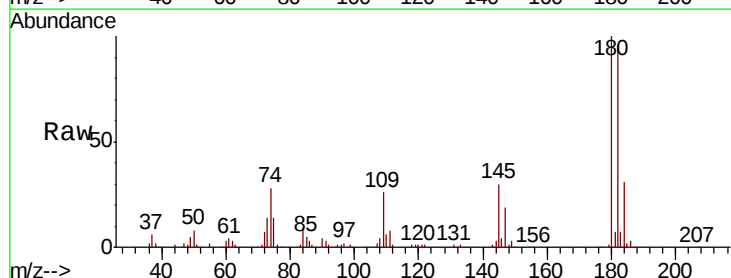
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.749 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU026035.D
 Acq: 10 Aug 2018 10:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.5	114.7
145	30.3	24.2	36.4

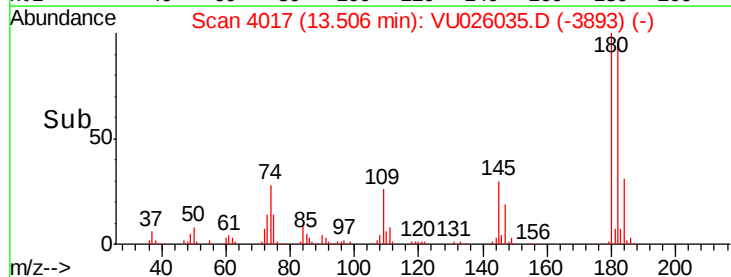
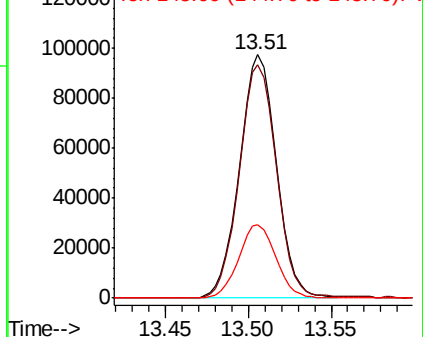


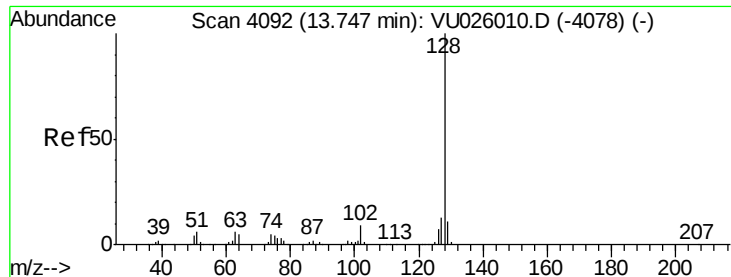
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 48.868 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

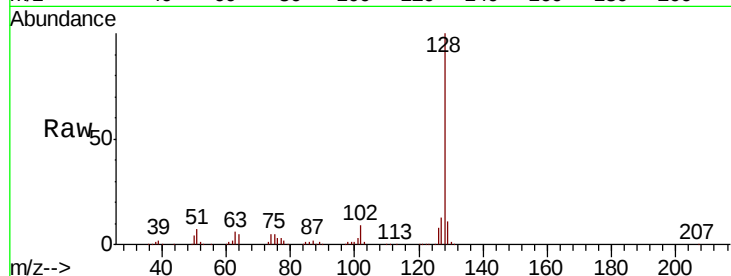
Tot Ion:128 Resp: 452617

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

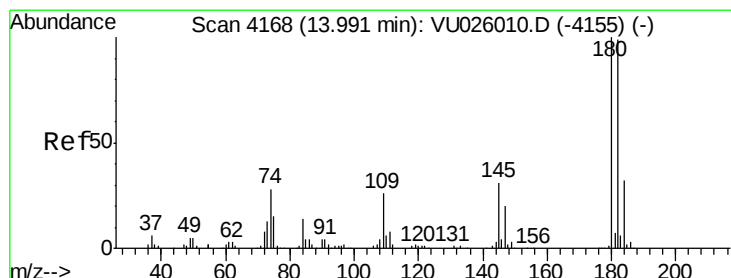
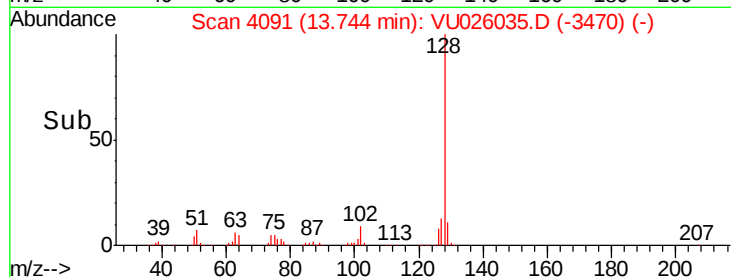
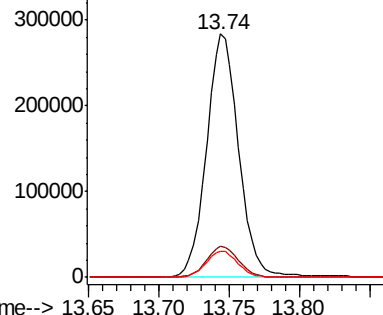
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 52.584 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU026035.D

Acq: 10 Aug 2018 10:08

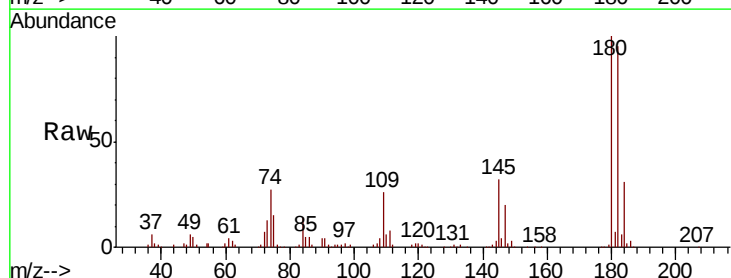
Tgt Ion:180 Resp: 162261

Ion Ratio Lower Upper

180 100

182 95.3 76.5 114.7

145 30.8 24.7 37.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

