

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032219\
 Data File : VU030309.D
 Acq On : 22 Mar 2019 15:36
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Quant Time: Mar 23 02:37:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 23 02:31:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	523674	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	505430	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	263111	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	161971	45.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.48%
7) Chloroethane-d5	1.68	69	138053	48.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.52%
11) 1,1-Dichloroethene-d2	2.27	63	304385	47.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.24%
21) 2-Butanone-d5	4.17	46	275798	104.99	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.99%
24) Chloroform-d	4.65	84	318185	48.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.92%
26) 1,2-Dichloroethane-d4	5.31	65	179210	48.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.70%
32) Benzene-d6	5.34	84	651983	48.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.90%
36) 1,2-Dichloropropane-d6	6.33	67	206938	50.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.42%
41) Toluene-d8	7.56	98	613953	49.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.04%
43) trans-1,3-Dichloropropene-	7.85	79	98906	49.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.58%
47) 2-Hexanone-d5	8.31	63	221054	103.44	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.44%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	322006	50.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.88%
64) 1,2-Dichlorobenzene-d4	11.86	152	256551	48.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.14%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	215791	48.670 ug/L	99
3) Chloromethane	1.33	50	204799	47.720 ug/L	100
5) Vinyl chloride	1.40	62	224438	49.265 ug/L	99
6) Bromomethane	1.62	94	125740	51.001 ug/L	98
8) Chloroethane	1.70	64	131723	48.903 ug/L	97
9) Trichlorofluoromethane	1.88	101	290875	50.276 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	177597	50.482 ug/L	100
12) 1,1-Dichloroethene	2.28	96	173153	49.561 ug/L	98
13) Acetone	2.32	43	225209	82.044 ug/L	99
14) Carbon disulfide	2.48	76	492802	47.226 ug/L	99
15) Methyl Acetate	2.61	43	204338	51.190 ug/L	100
16) Methylene chloride	2.70	84	196889	49.689 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	180295	48.968 ug/L	99
18) Methyl tert-butyl Ether	3.00	73	544426	51.403 ug/L	99
19) 1,1-Dichloroethane	3.44	63	322330	50.898 ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	207751	51.500 ug/L	100
22) 2-Butanone	4.26	43	311569	96.575 ug/L	100

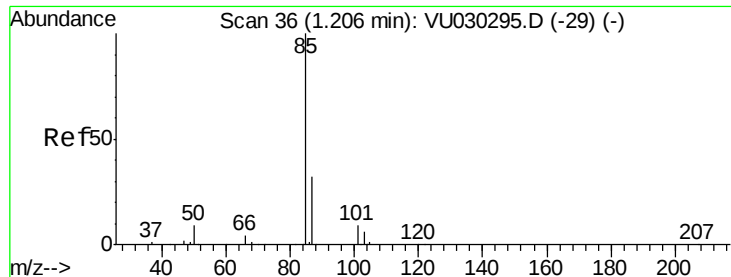
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032219\
 Data File : VU030309.D
 Acq On : 22 Mar 2019 15:36
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Quant Time: Mar 23 02:37:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 23 02:31:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	106688	49.415	ug/L	98
25) Chloroform	4.67	83	334941	50.766	ug/L	100
27) 1,2-Dichloroethane	5.40	62	230632	49.319	ug/L	100
29) Cyclohexane	4.99	56	281747	51.304	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	279182	51.253	ug/L	99
31) Carbon tetrachloride	5.13	117	248000	51.428	ug/L	99
33) Benzene	5.39	78	755650	51.820	ug/L	100
34) Trichloroethene	6.18	95	192387	50.055	ug/L	98
35) Methylcyclohexane	6.41	83	311193	51.633	ug/L	99
37) 1,2-Dichloropropane	6.43	63	198750	53.218	ug/L	100
38) Bromodichloromethane	6.75	83	251130	52.300	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	312138	52.093	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	523152	101.925	ug/L	98
42) Toluene	7.63	91	834325	52.566	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	273517	52.753	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	196931	51.370	ug/L	98
46) Tetrachloroethene	8.23	164	172089	52.993	ug/L	99
48) 2-Hexanone	8.36	43	418004	98.121	ug/L	99
49) Dibromochloromethane	8.47	129	222861	51.842	ug/L	100
50) 1,2-Dibromoethane	8.58	107	218380	51.381	ug/L	98
51) Chlorobenzene	9.12	112	537036	51.142	ug/L	99
52) Ethylbenzene	9.25	91	892693	51.790	ug/L	100
53) m,p-Xylene	9.37	106	348723	52.512	ug/L	99
54) o-xylene	9.77	106	344227	52.730	ug/L	99
55) Styrene	9.79	104	593751	53.681	ug/L	100
56) Isopropylbenzene	10.16	105	891594	52.827	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	335147	51.269	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	257020	50.920	ug/L	99
61) Bromoform	9.95	173	173867	51.171	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	421424	50.203	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	435832	50.053	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	432384	50.415	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	72906	50.844	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	328459	50.066	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	281011	48.437	ug/L	99
69) Naphthalene	13.74	128	835475	45.390	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	290618	48.008	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 48.670 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

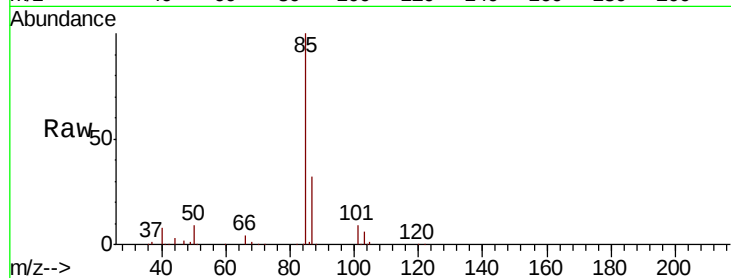
VSTD05054

Tgt Ion: 85 Resp: 215791

Ion Ratio Lower Upper

85 100

87 32.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU030295.D (-29) (-)

Ion 87.00 (86.70 to 87.70): VU030295.D (-29) (-)

1.21

200000

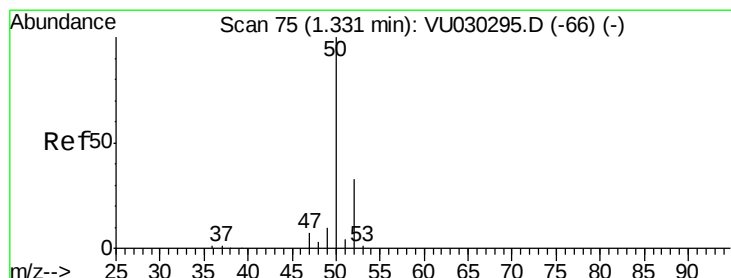
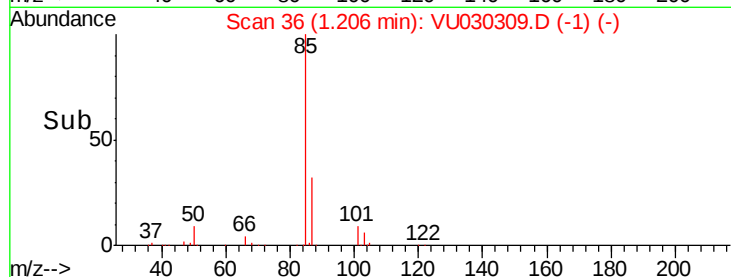
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 47.720 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030309.D

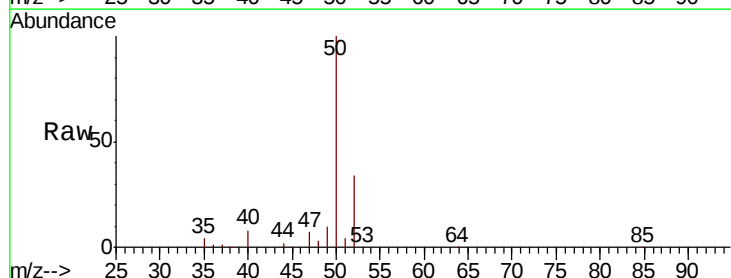
Acq: 22 Mar 2019 15:36

Tgt Ion: 50 Resp: 204799

Ion Ratio Lower Upper

50 100

52 33.7 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030295.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU030295.D (-66) (-)

1.33

200000

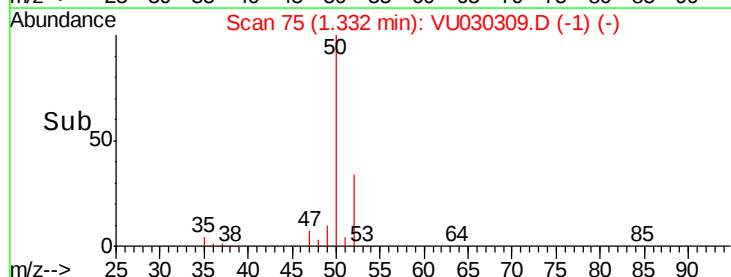
150000

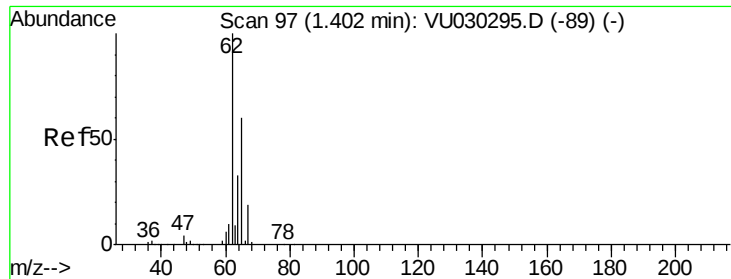
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 49.265 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

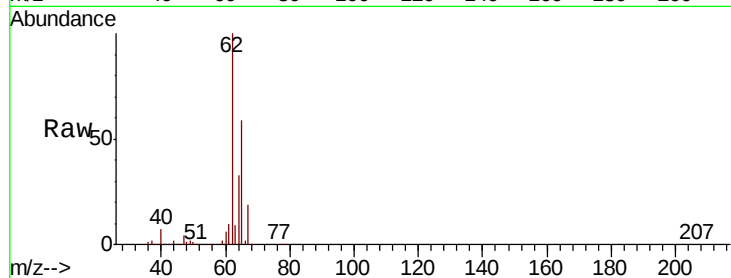
VSTD05054

Tgt Ion: 62 Resp: 224438

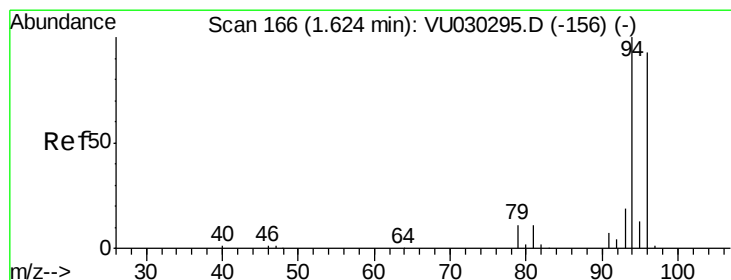
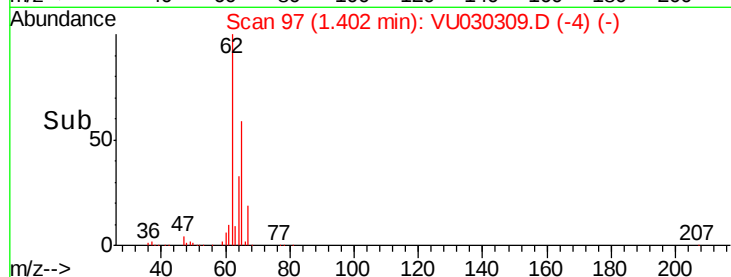
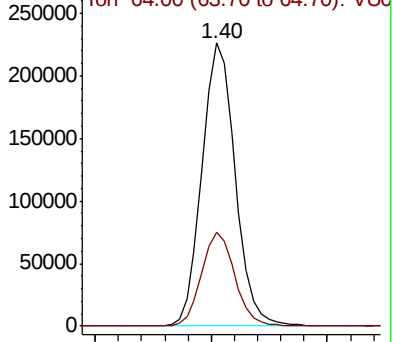
Ion Ratio Lower Upper

62 100

64 33.0 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU030309.D (-4) (-)



#6

Bromomethane

Concen: 51.001 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU030309.D

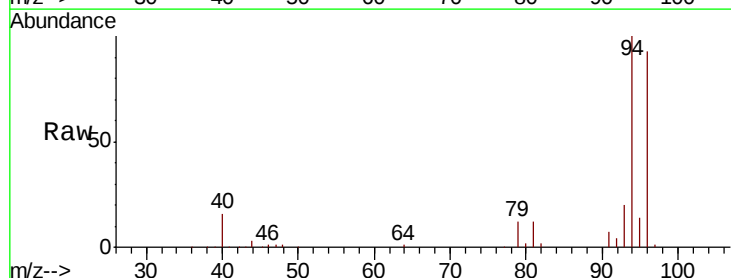
Acq: 22 Mar 2019 15:36

Tgt Ion: 94 Resp: 125740

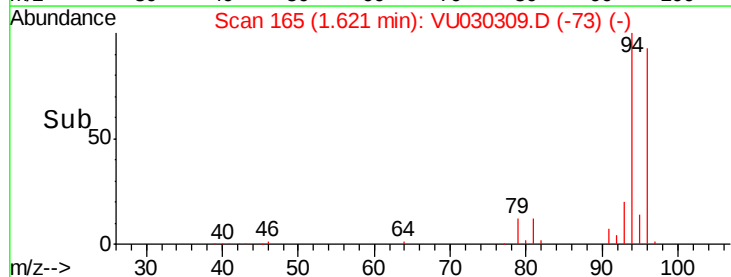
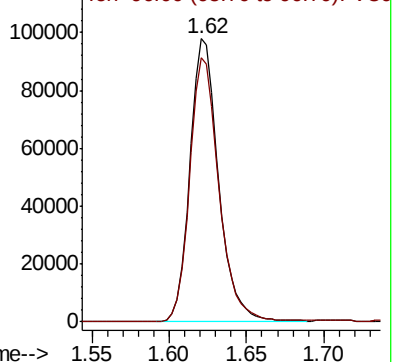
Ion Ratio Lower Upper

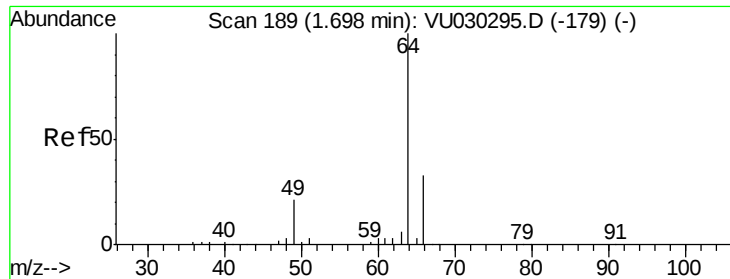
94 100

96 93.3 66.6 123.6



Abundance Ion 94.00 (93.70 to 94.70): VU030309.D (-73) (-)





#8

Chloroethane

Concen: 48.903 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

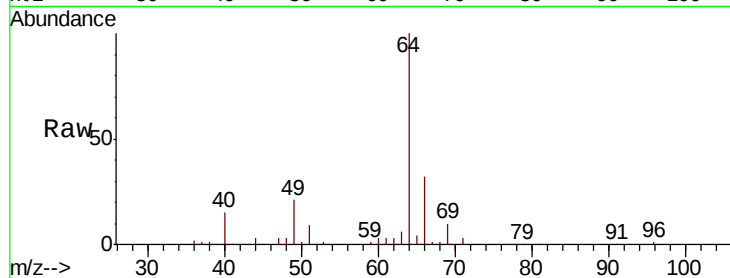
VSTD05054

Tgt Ion: 64 Resp: 131723

Ion Ratio Lower Upper

64 100

66 31.7 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU030309.D (-179) (-)

Ion 66.00 (65.70 to 66.70): VU030309.D (-179) (-)

120000

100000

80000

60000

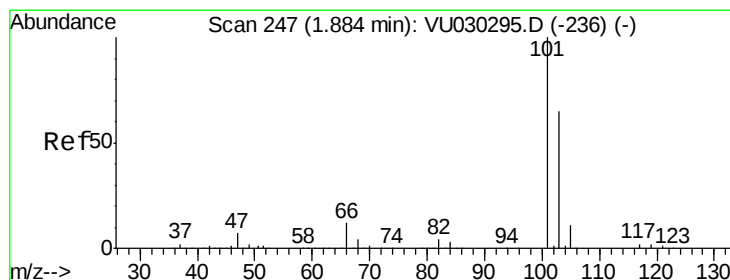
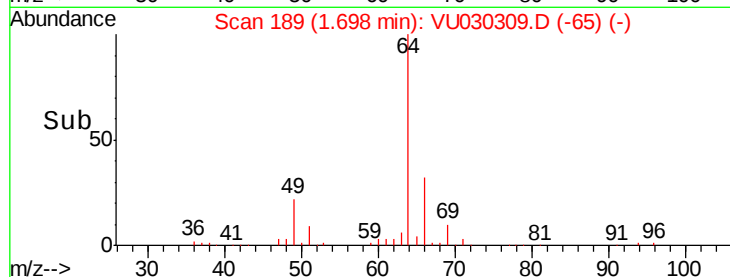
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 50.276 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU030309.D

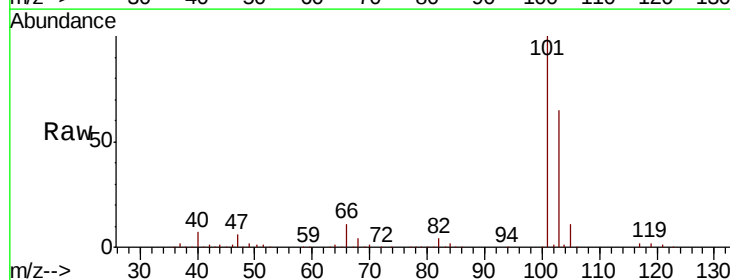
Acq: 22 Mar 2019 15:36

Tgt Ion: 101 Resp: 290875

Ion Ratio Lower Upper

101 100

103 64.4 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU030309.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU030309.D (-236) (-)

200000

150000

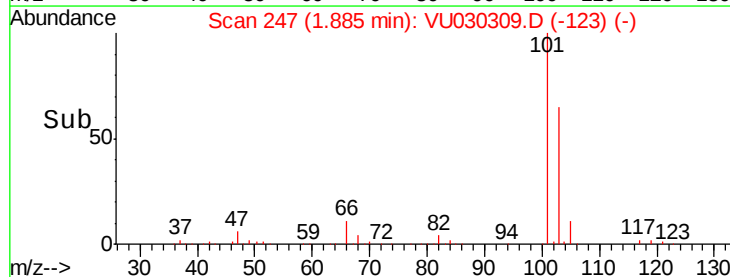
100000

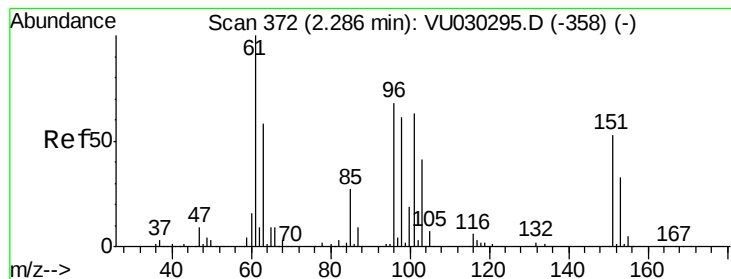
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 50.482 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

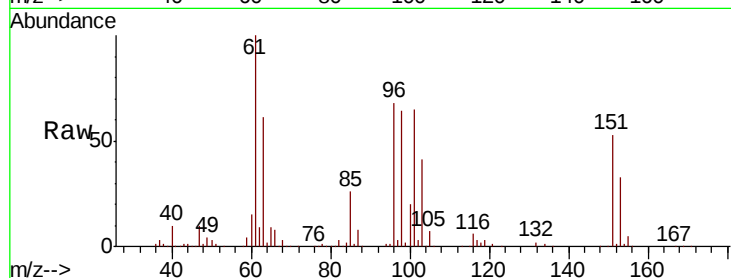
Tgt Ion: 101 Resp: 177597

Ion Ratio Lower Upper

101 100

85 40.1 32.5 48.7

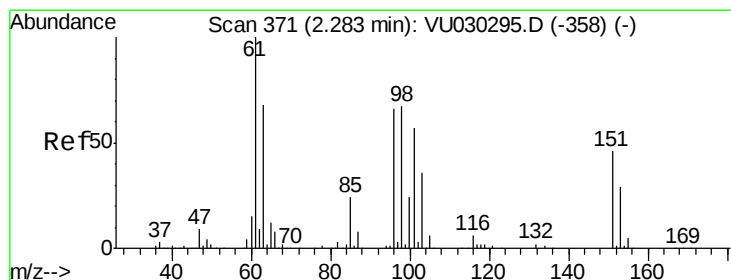
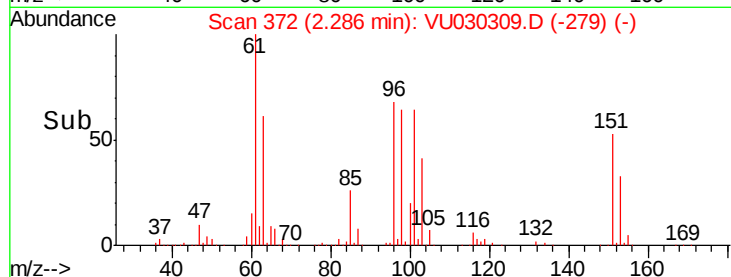
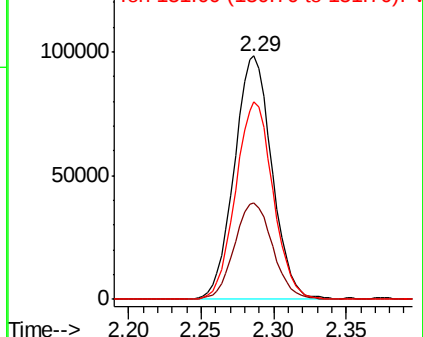
151 80.8 64.7 97.1



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: 49.561 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

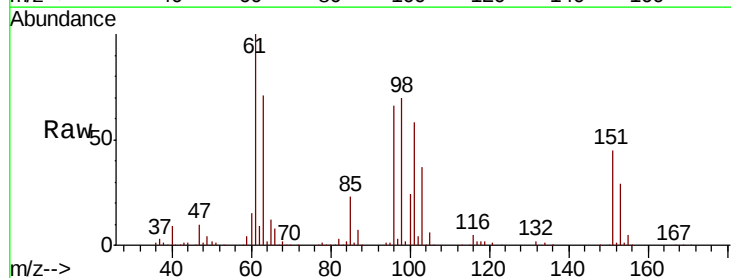
Tgt Ion: 96 Resp: 173153

Ion Ratio Lower Upper

96 100

61 151.1 104.6 194.2

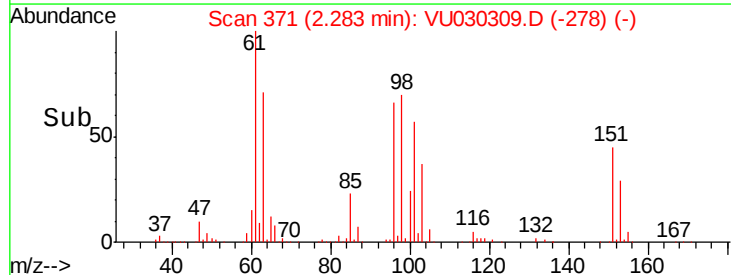
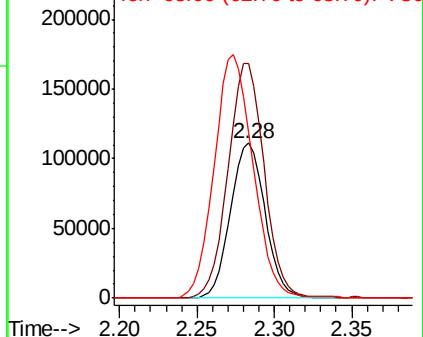
63 107.1 77.2 143.4

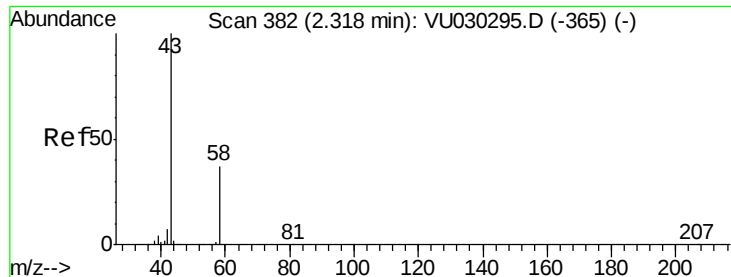


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 82.044 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

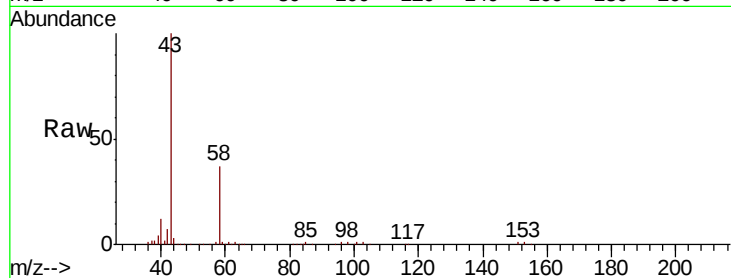
VSTD05054

Tgt Ion: 43 Resp: 225209

Ion Ratio Lower Upper

43 100

58 36.3 0.0 73.4



Abundance Ion 43.00 (42.70 to 43.70): VU030295.D (-365) (-)

Ion 58.00 (57.70 to 58.70): VU030295.D (-365) (-)

2.32

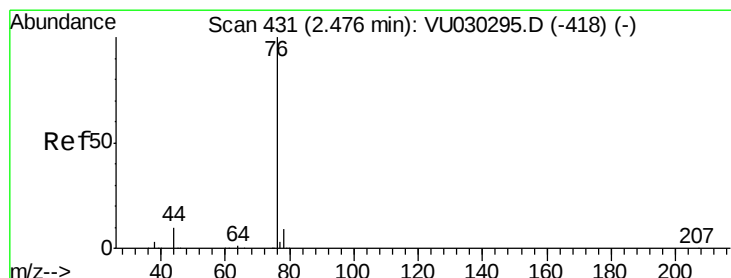
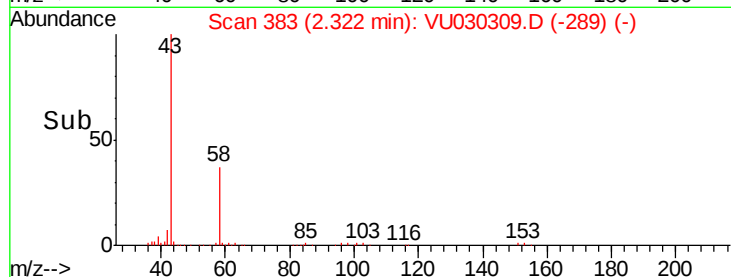
150000

100000

50000

0

Time--> 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 47.226 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030309.D

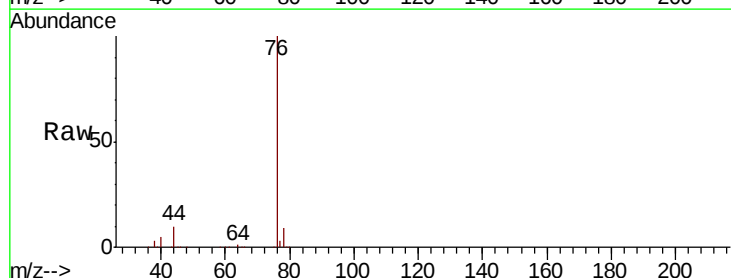
Acq: 22 Mar 2019 15:36

Tgt Ion: 76 Resp: 492802

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU030295.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU030295.D (-418) (-)

2.48

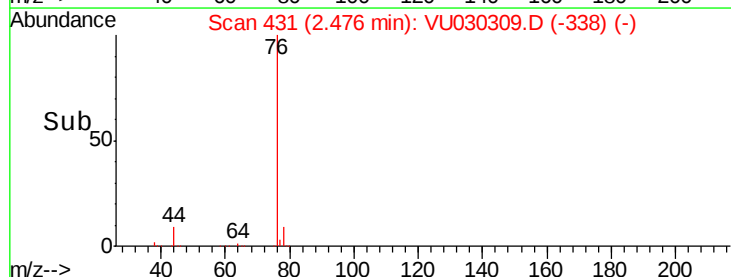
300000

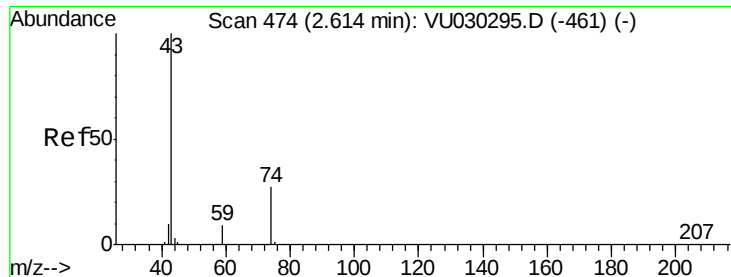
200000

100000

0

Time--> 2.40 2.45 2.50 2.55





#15

Methyl Acetate

Concen: 51.190 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampled :

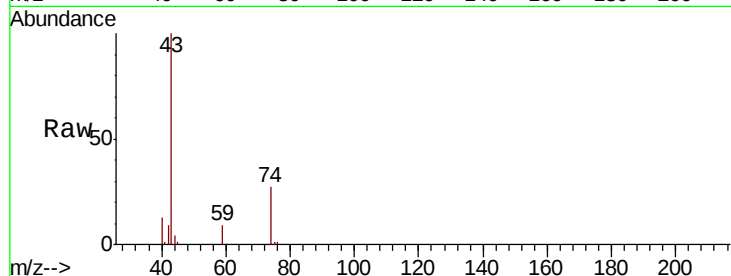
VSTD05054

Tgt Ion: 43 Resp: 204338

Ion Ratio Lower Upper

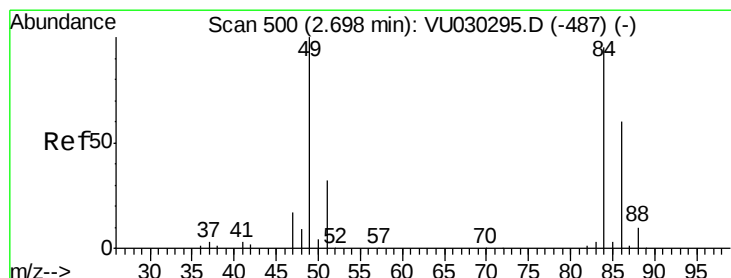
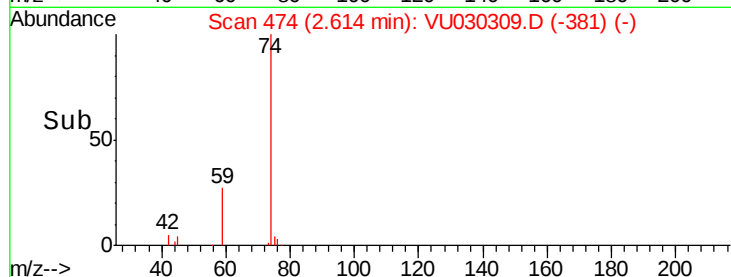
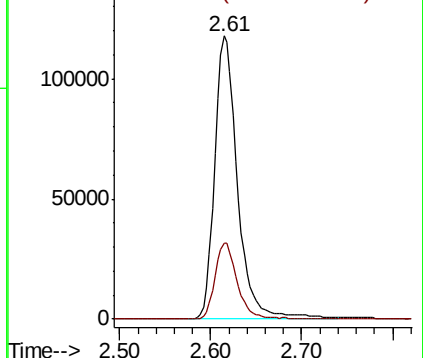
43 100

74 26.3 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VU030309.D (-381) (-)

Ion 74.00 (73.70 to 74.70): VU030309.D (-381) (-)



#16

Methylene chloride

Concen: 49.689 ug/L

RT: 2.70 min Scan# 501

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

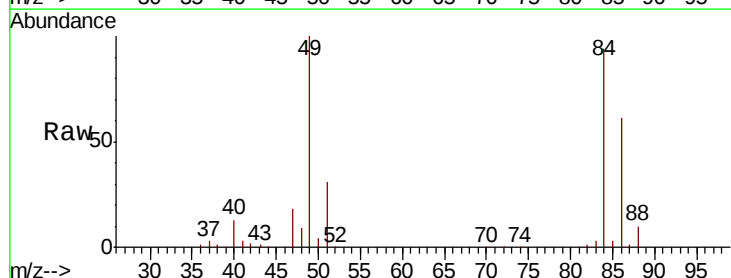
Tgt Ion: 84 Resp: 196889

Ion Ratio Lower Upper

84 100

86 64.3 45.6 84.6

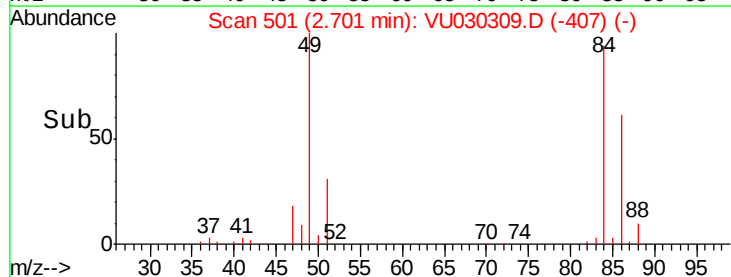
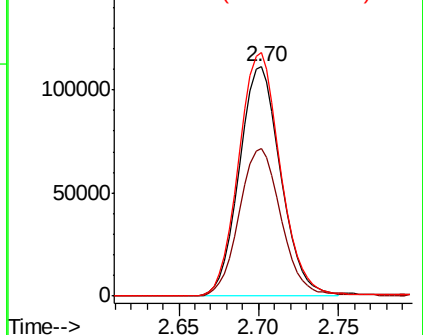
49 106.2 75.2 139.6

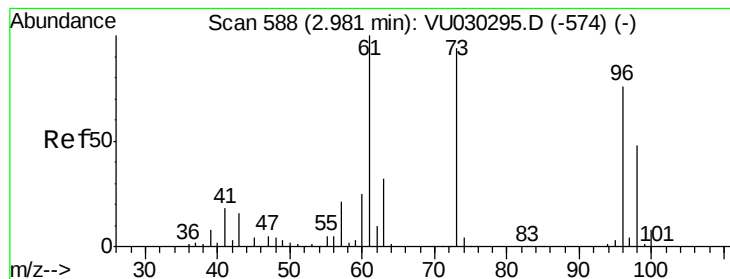


Abundance Ion 84.00 (83.70 to 84.70): VU030309.D (-407) (-)

Ion 86.00 (85.70 to 86.70): VU030309.D (-407) (-)

Ion 49.00 (48.70 to 49.70): VU030309.D (-407) (-)





#17

trans-1,2-Dichloroethene

Concen: 48.968 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

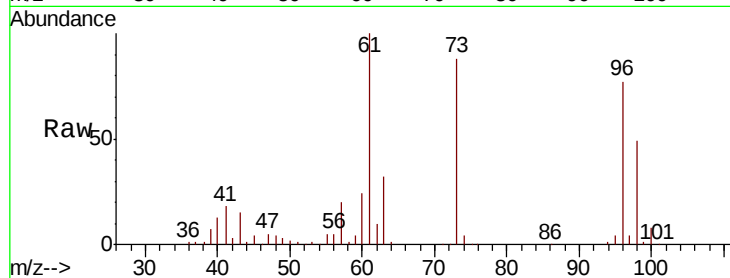
Tgt Ion: 96 Resp: 180295

Ion Ratio Lower Upper

96 100

61 130.5 90.9 168.9

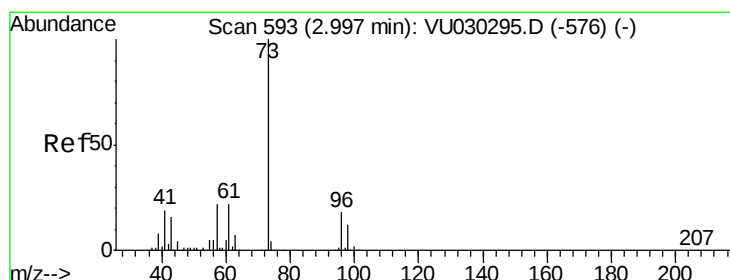
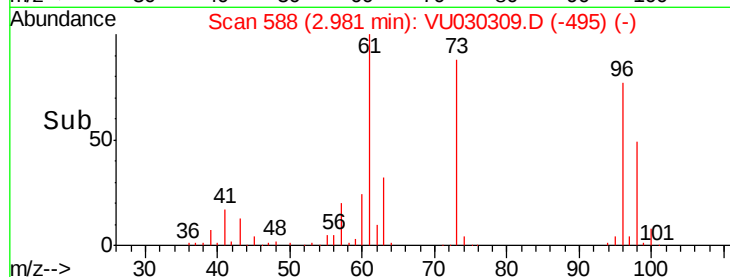
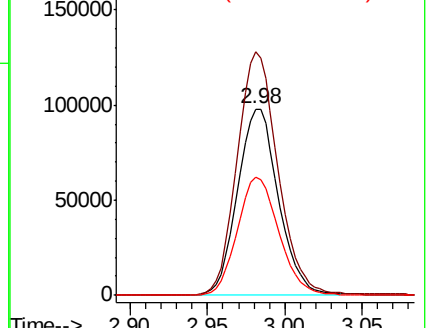
98 63.6 45.6 84.6



Abundance Ion 96.00 (95.70 to 96.70): VU030295.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU030295.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU030295.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 51.403 ug/L

RT: 3.00 min Scan# 594

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

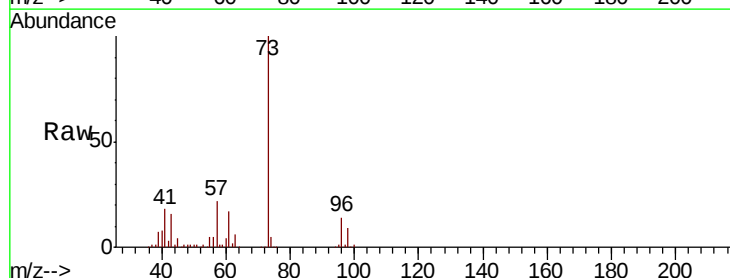
Tgt Ion: 73 Resp: 544426

Ion Ratio Lower Upper

73 100

43 16.1 13.1 19.7

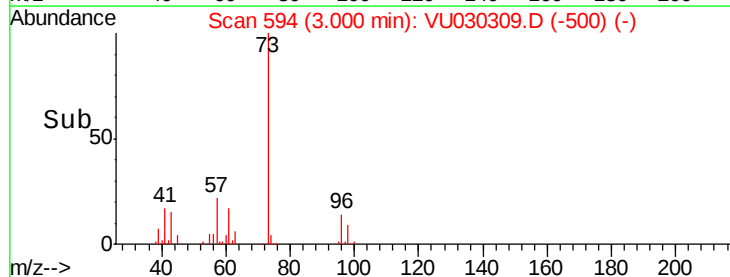
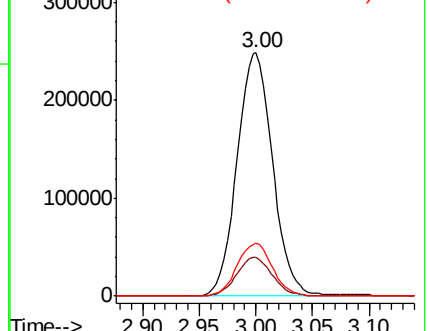
57 21.7 17.1 25.7

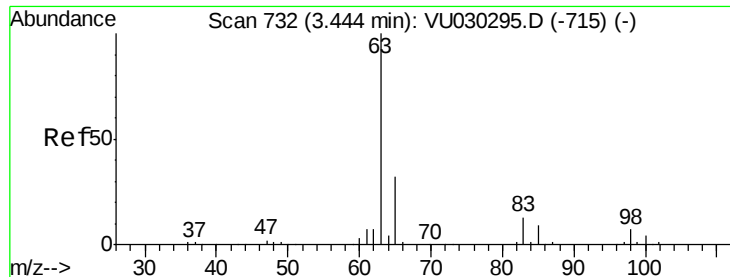


Abundance Ion 73.00 (72.70 to 73.70): VU030295.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030295.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030295.D (-576) (-)

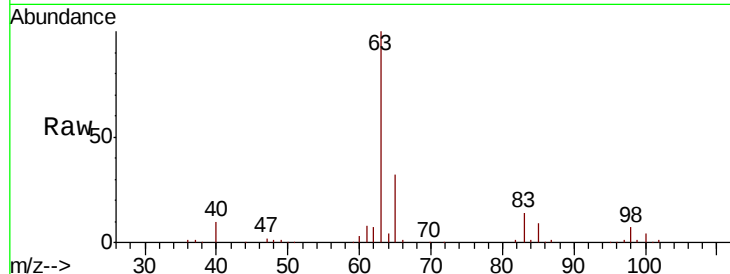




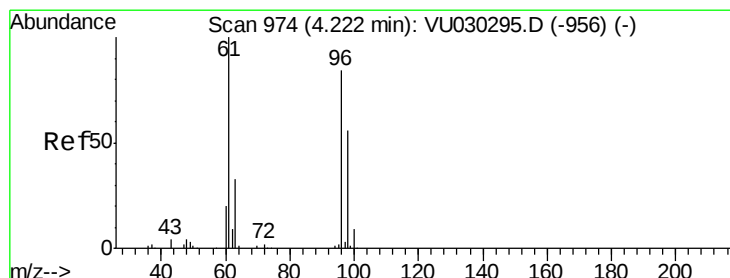
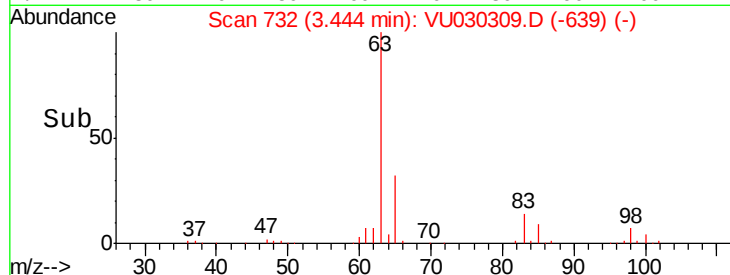
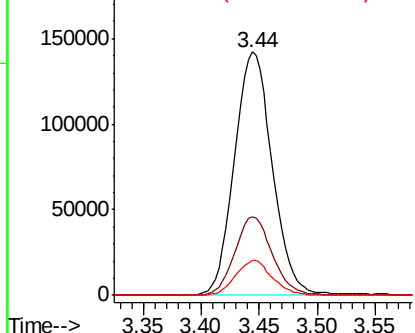
#19
 1,1-Dichloroethane
 Concen: 50.898 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU030309.D
 Acq: 22 Mar 2019 15:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Tgt Ion: 63 Resp: 322330
 Ion Ratio Lower Upper
 63 100
 65 32.4 21.8 40.4
 83 14.2 9.9 18.3

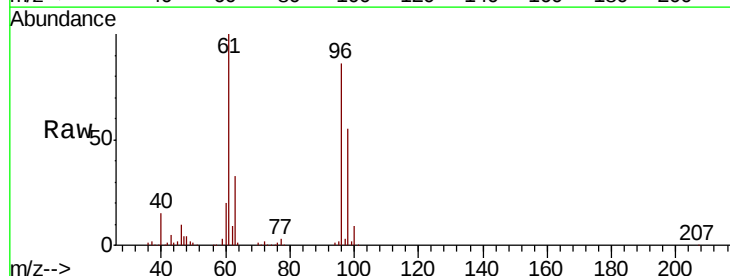


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

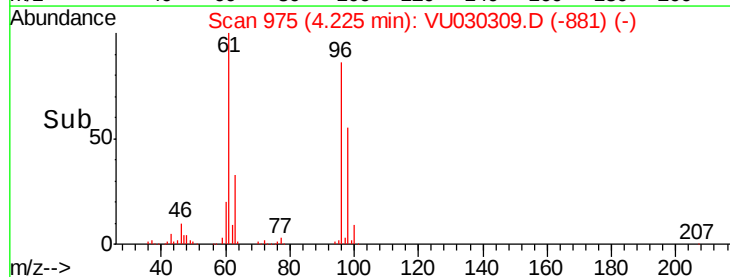
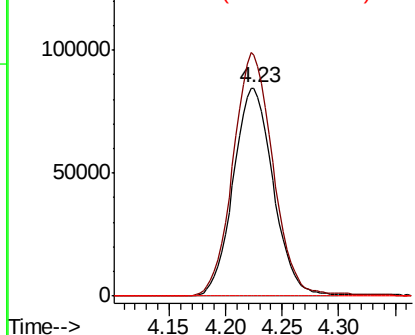


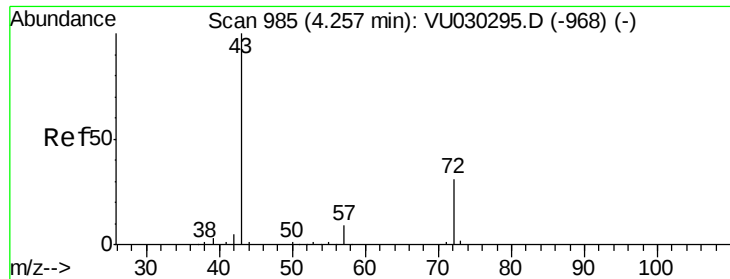
#20
 cis-1,2-Dichloroethene
 Concen: 51.500 ug/L
 RT: 4.23 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU030309.D
 Acq: 22 Mar 2019 15:36

Tgt Ion: 96 Resp: 207751
 Ion Ratio Lower Upper
 96 100
 61 116.1 81.5 151.3
 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: 96.575 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampled :

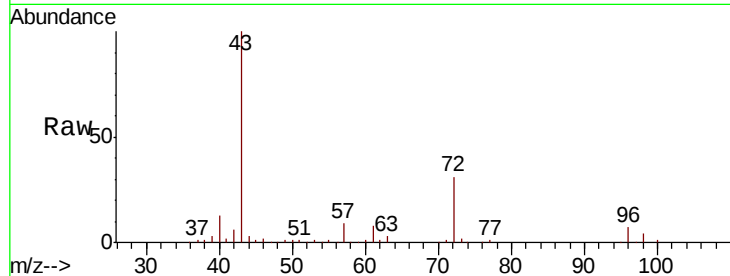
VSTD05054

Tgt Ion: 43 Resp: 311569

Ion Ratio Lower Upper

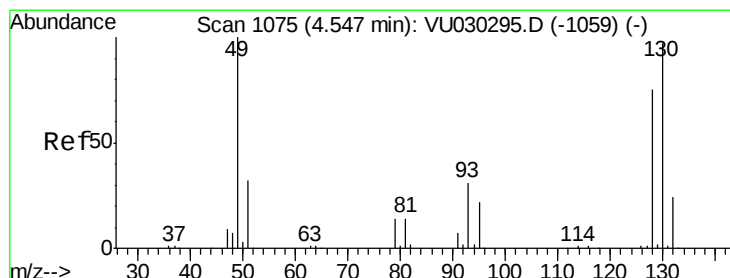
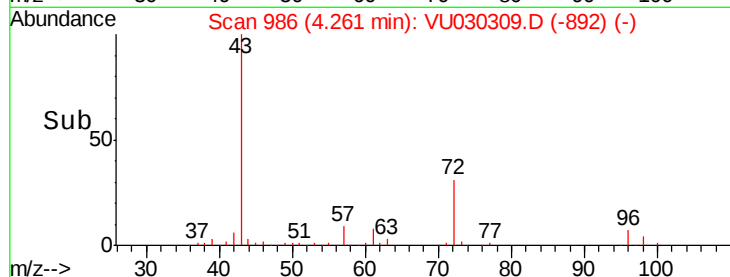
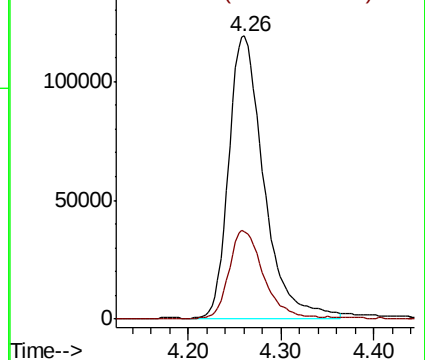
43 100

72 31.3 15.7 47.1



Abundance Ion 43.00 (42.70 to 43.70): VU030309.D (-986) (-)

Ion 72.00 (71.70 to 72.70): VU030309.D (-986) (-)



#23

Bromochloromethane

Concen: 49.415 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Tgt Ion: 128 Resp: 106688

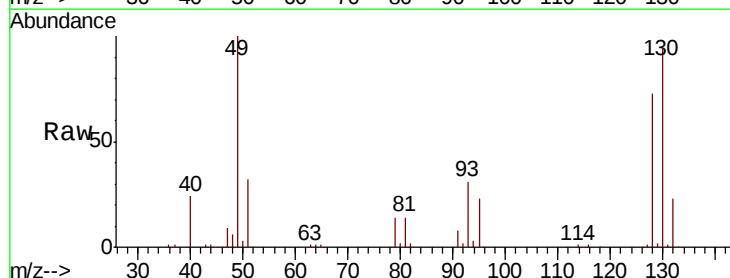
Ion Ratio Lower Upper

128 100

49 137.2 92.5 171.9

130 128.8 90.1 167.3

51 43.9 33.8 50.8

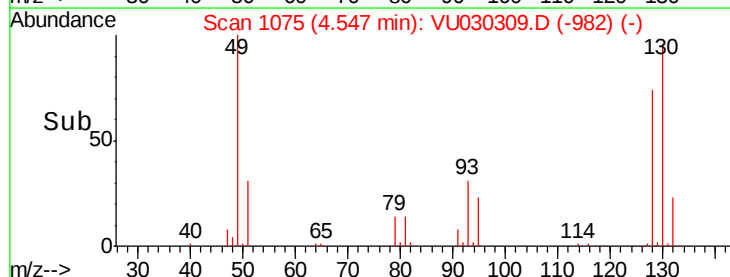
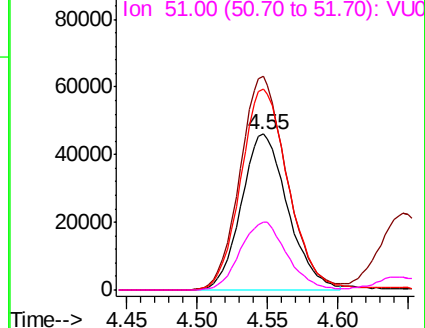


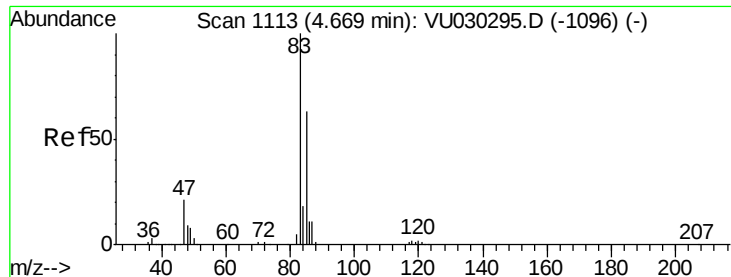
Abundance Ion 128.00 (127.70 to 128.70): VU030309.D (-1082) (-)

Ion 49.00 (48.70 to 49.70): VU030309.D (-1082) (-)

Ion 130.00 (129.70 to 130.70): VU030309.D (-1082) (-)

Ion 51.00 (50.70 to 51.70): VU030309.D (-1082) (-)

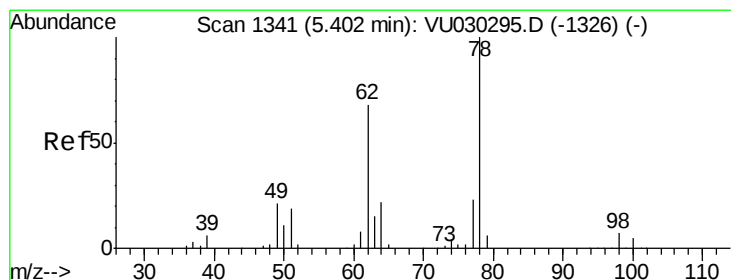
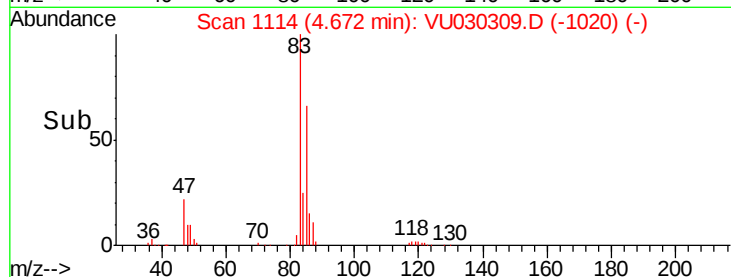
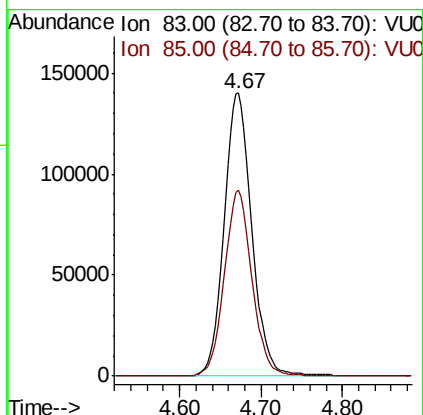
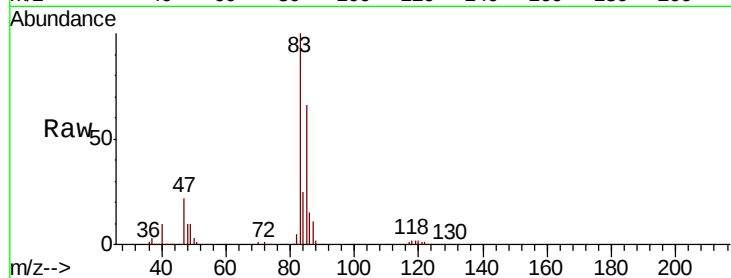




#25
Chloroform
Concen: 50.766 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU030309.D
Acq: 22 Mar 2019 15:36

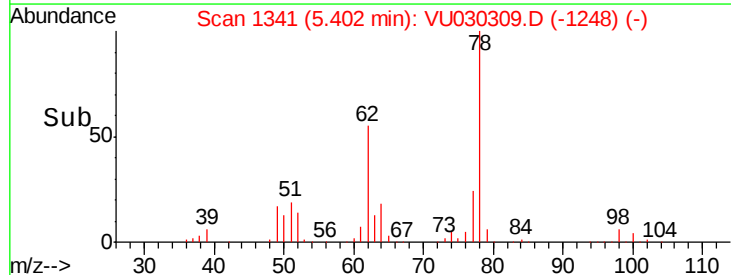
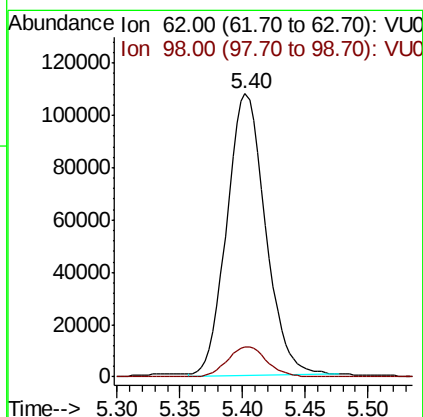
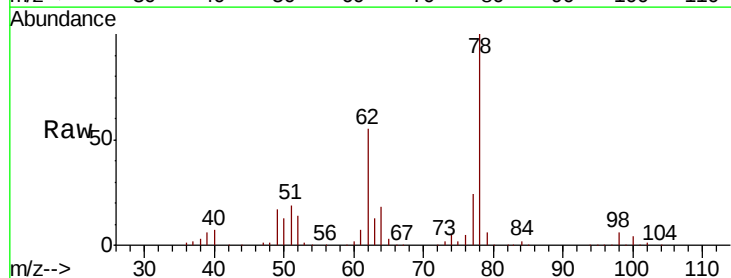
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

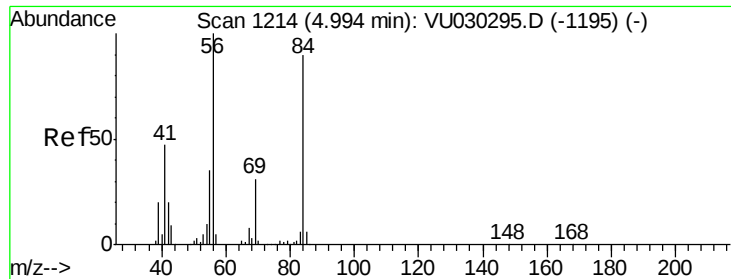
Tgt Ion: 83 Resp: 334941
Ion Ratio Lower Upper
83 100
85 65.9 45.8 85.2



#27
1,2-Dichloroethane
Concen: 49.319 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU030309.D
Acq: 22 Mar 2019 15:36

Tgt Ion: 62 Resp: 230632
Ion Ratio Lower Upper
62 100
98 10.6 8.6 12.8

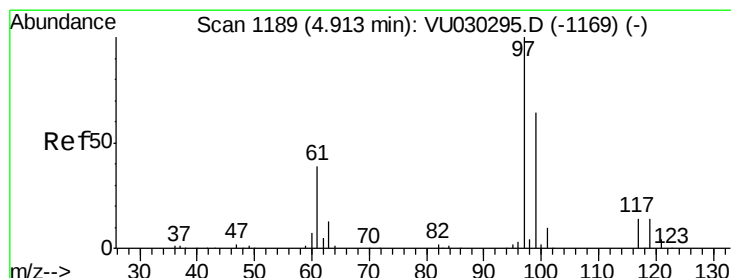
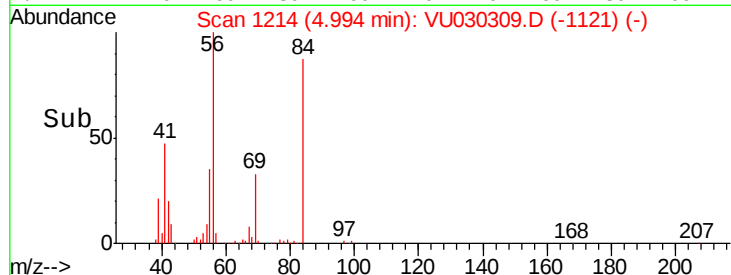
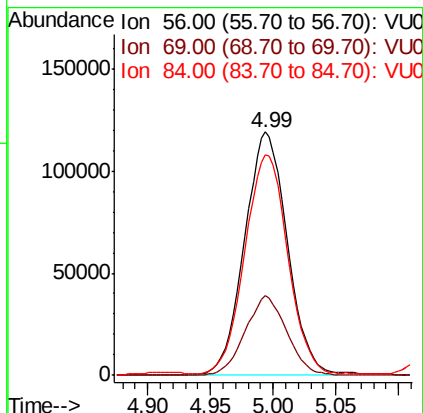
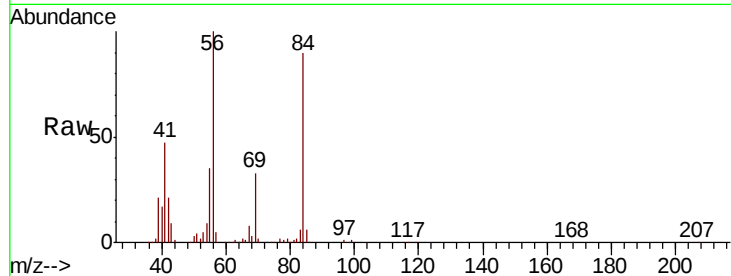




#29
Cyclohexane
Concen: 51.304 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030309.D
Acq: 22 Mar 2019 15:36

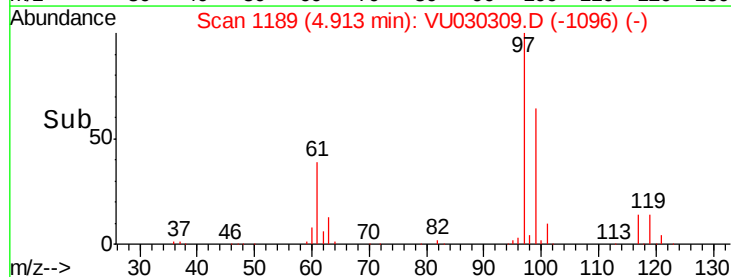
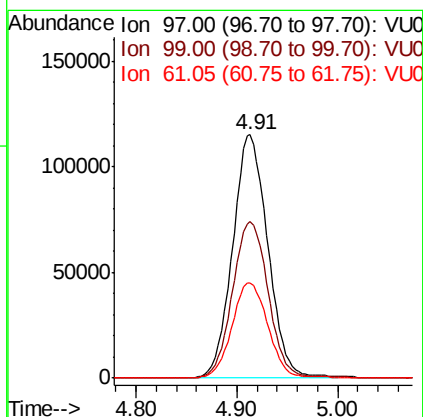
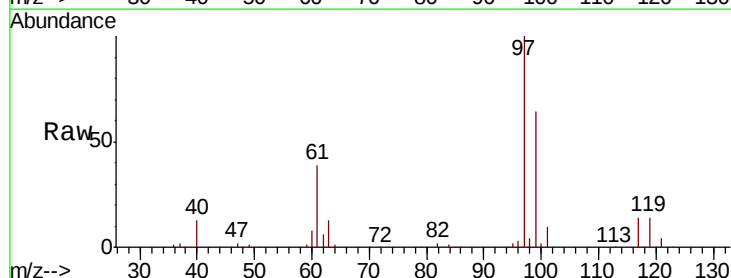
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

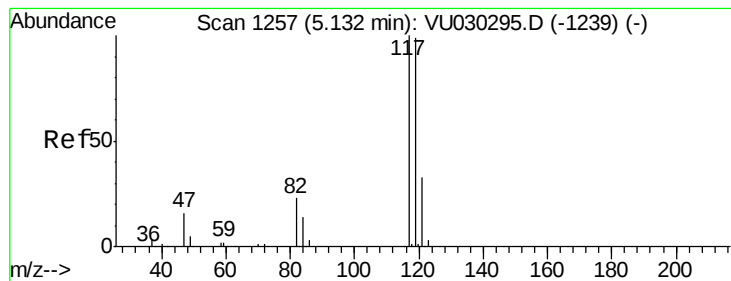
Tgt Ion: 56 Resp: 281747
Ion Ratio Lower Upper
56 100
69 31.8 25.4 38.2
84 90.3 71.5 107.3



#30
1,1,1-Trichloroethane
Concen: 51.253 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU030309.D
Acq: 22 Mar 2019 15:36

Tgt Ion: 97 Resp: 279182
Ion Ratio Lower Upper
97 100
99 65.1 51.8 77.6
61 39.9 32.7 49.1





#31

Carbon tetrachloride

Concen: 51.428 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

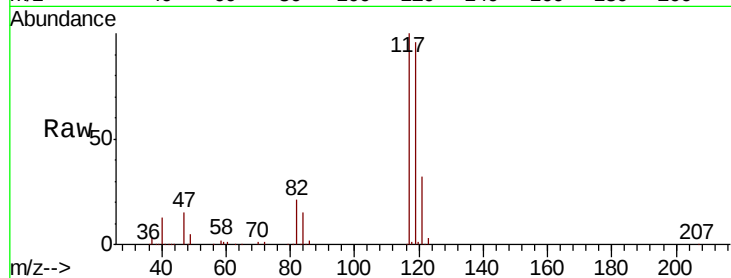
VSTD05054

Tgt Ion:117 Resp: 248000

Ion Ratio Lower Upper

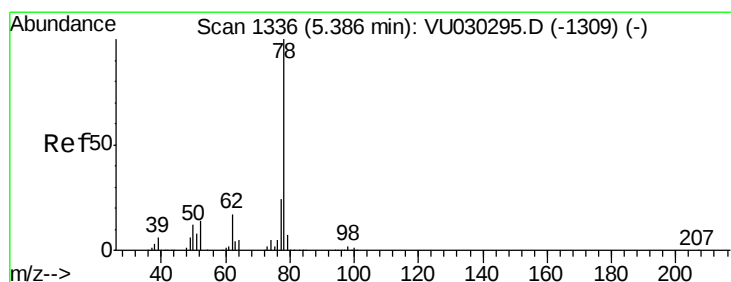
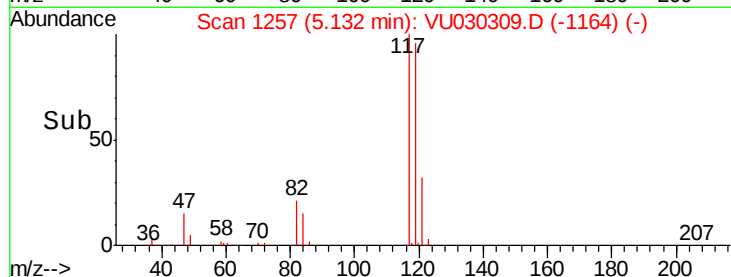
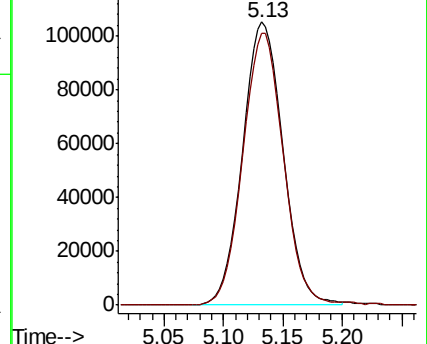
117 100

119 95.8 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.820 ug/L

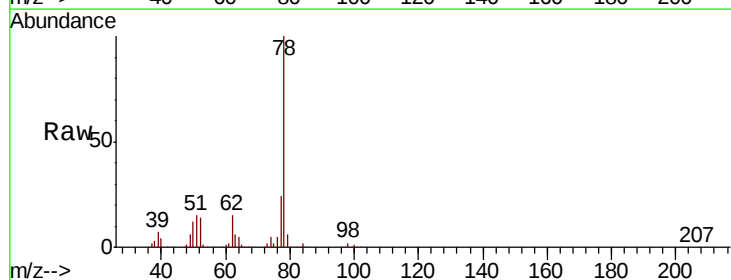
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

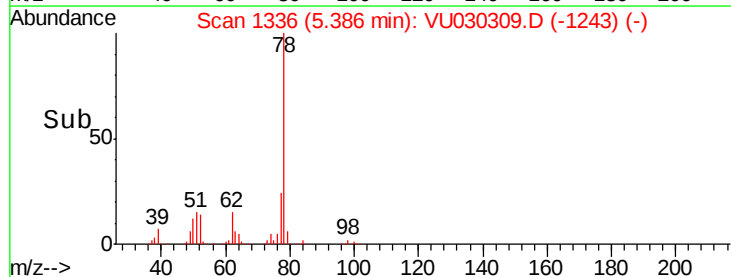
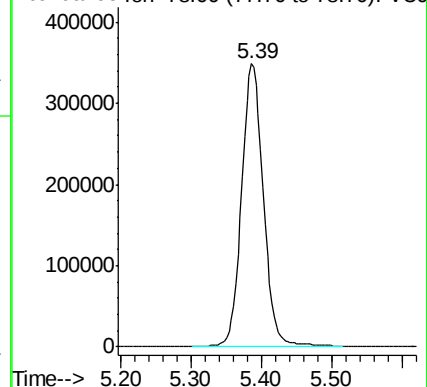
Lab File: VU030309.D

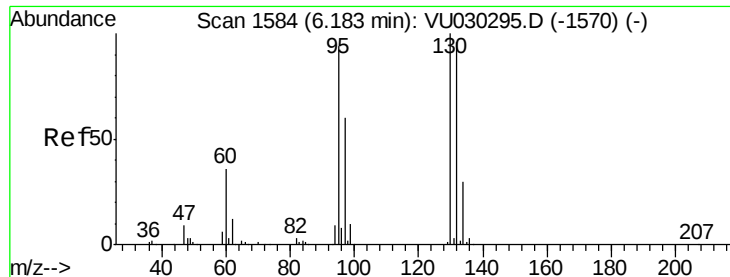
Acq: 22 Mar 2019 15:36

Tgt Ion: 78 Resp: 755650



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.055 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

Tgt Ion: 95 Resp: 192387

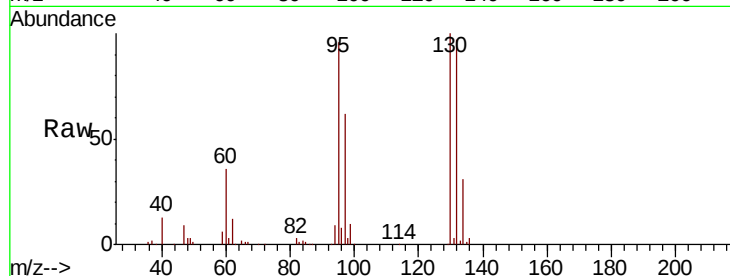
Ion Ratio Lower Upper

95 100

97 64.4 46.2 85.8

132 100.5 69.3 128.7

130 103.8 73.6 136.6

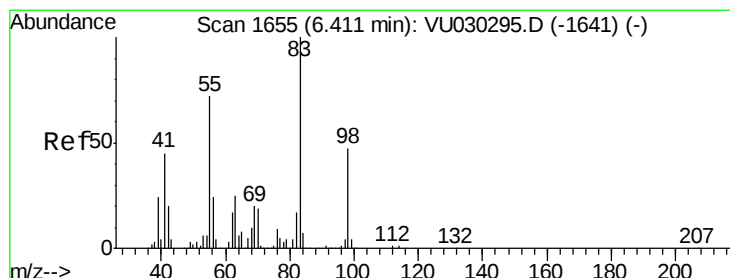
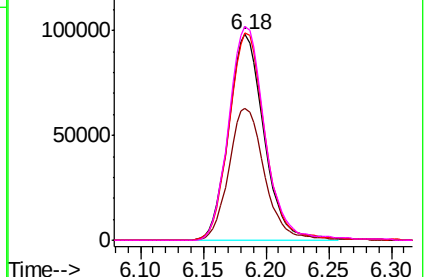
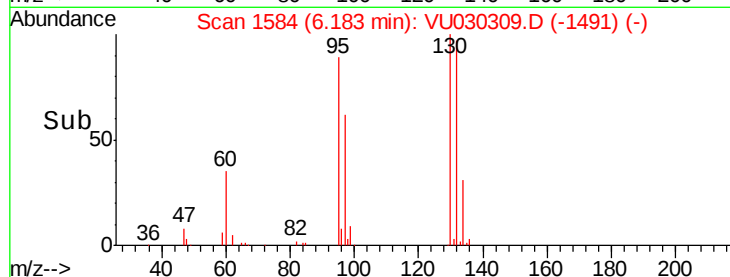


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 51.633 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

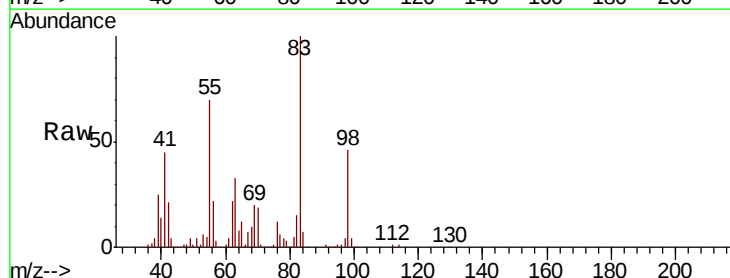
Tgt Ion: 83 Resp: 311193

Ion Ratio Lower Upper

83 100

55 70.2 56.6 85.0

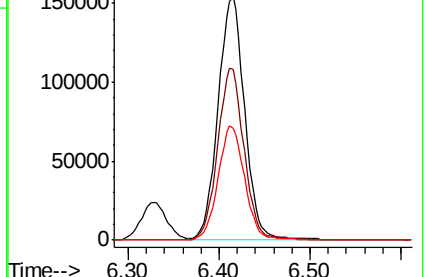
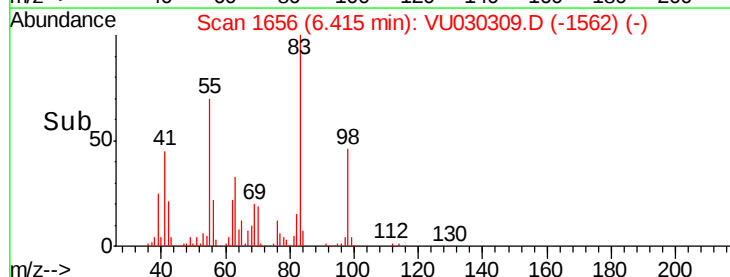
98 46.8 37.0 55.4

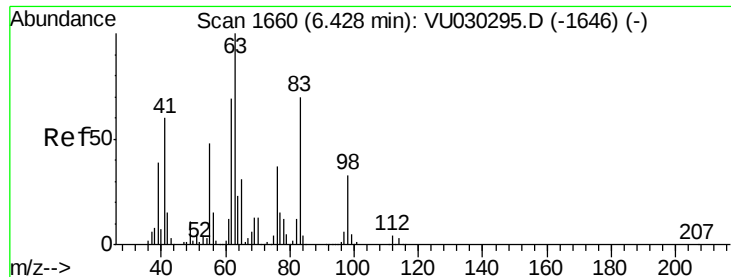


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 53.218 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

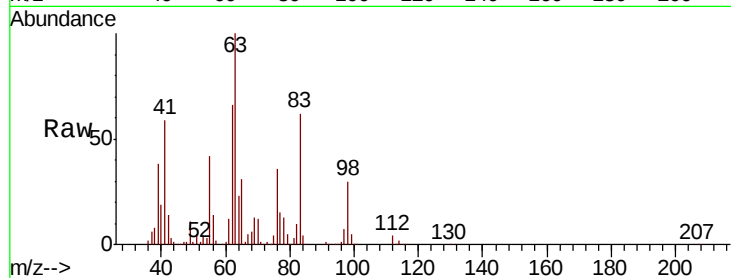
VSTD05054

Tgt Ion: 63 Resp: 198750

Ion Ratio Lower Upper

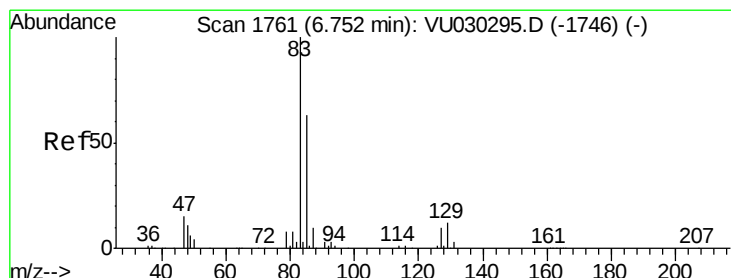
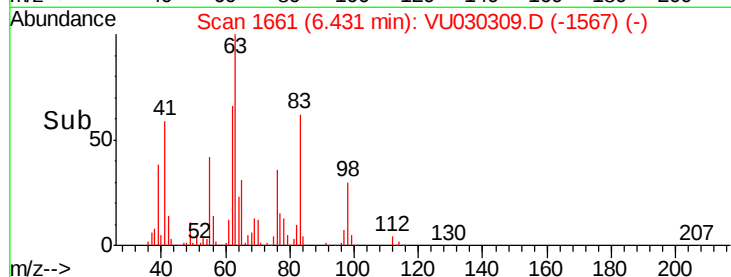
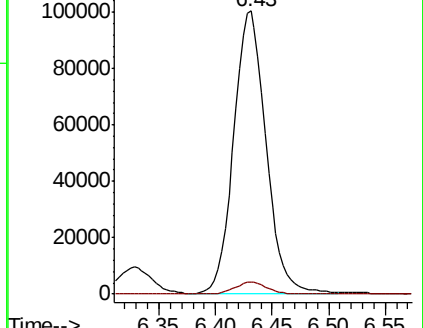
63 100

112 4.2 3.3 4.9



Abundance Ion 63.00 (62.70 to 63.70): VU030295.D (-1646) (-)

Ion 112.00 (111.70 to 112.70): VU030295.D (-1646) (-)



#38

Bromodichloromethane

Concen: 52.300 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

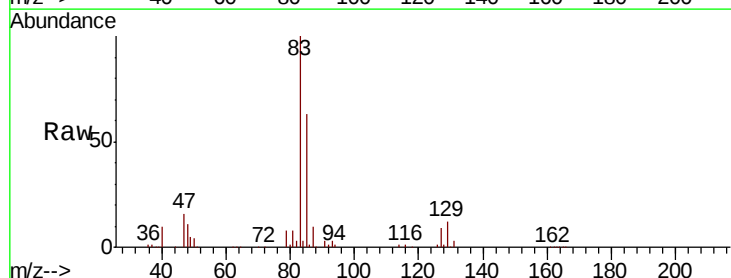
Tgt Ion: 83 Resp: 251130

Ion Ratio Lower Upper

83 100

85 63.5 45.8 85.2

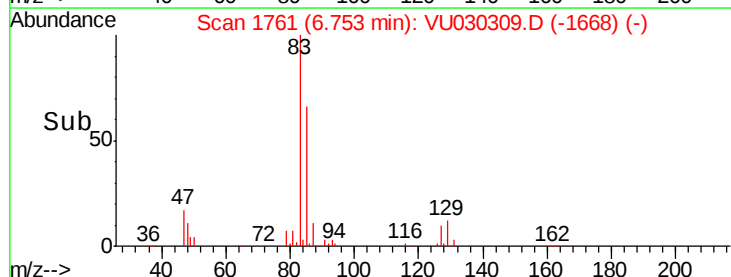
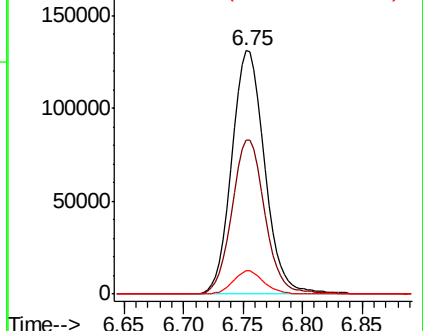
127 9.4 7.4 11.0

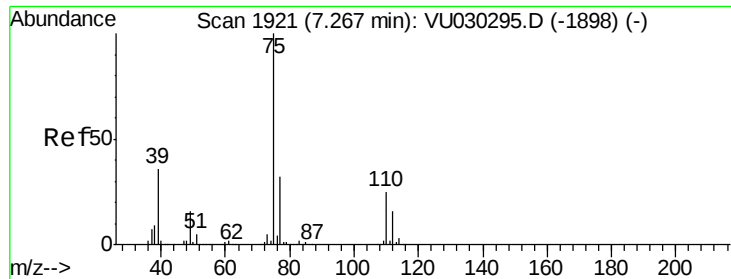


Abundance Ion 83.00 (82.70 to 83.70): VU030295.D (-1746) (-)

Ion 85.00 (84.70 to 85.70): VU030295.D (-1746) (-)

Ion 127.00 (126.70 to 127.70): VU030295.D (-1746) (-)

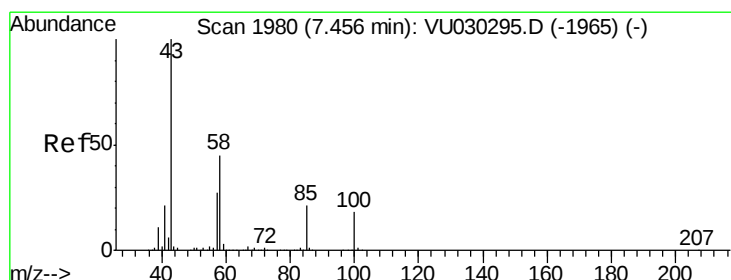
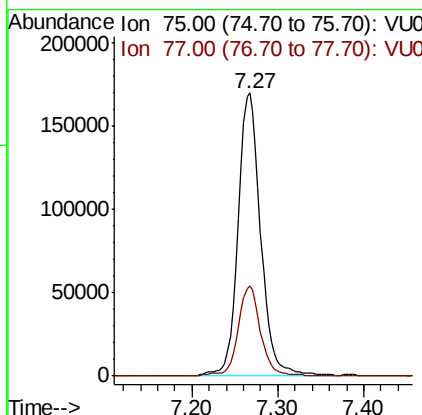
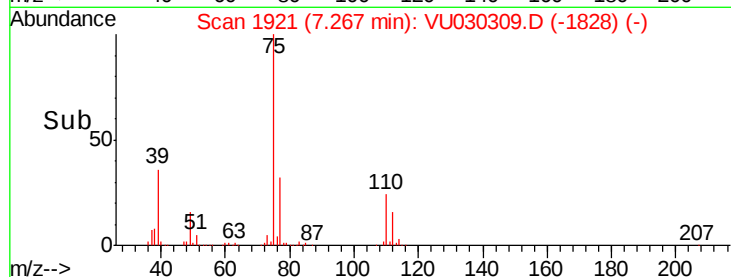
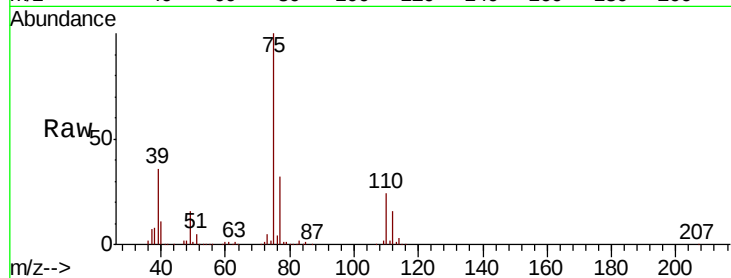




#39
 cis-1,3-Dichloropropene
 Concen: 52.093 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030309.D
 Acq: 22 Mar 2019 15:36

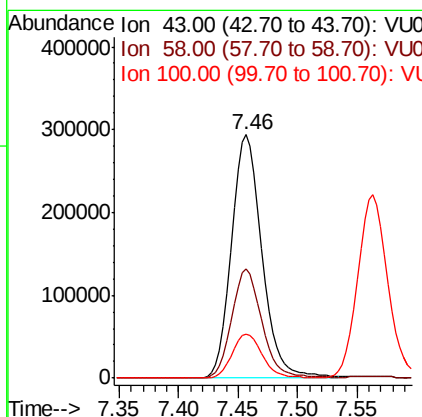
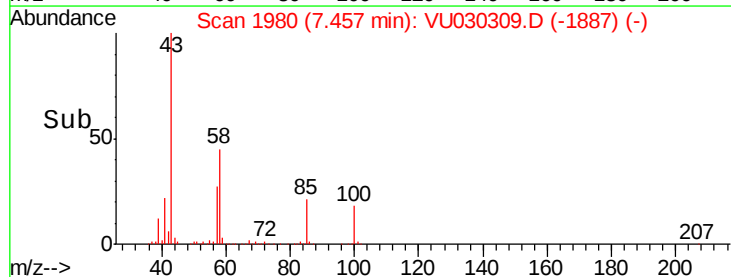
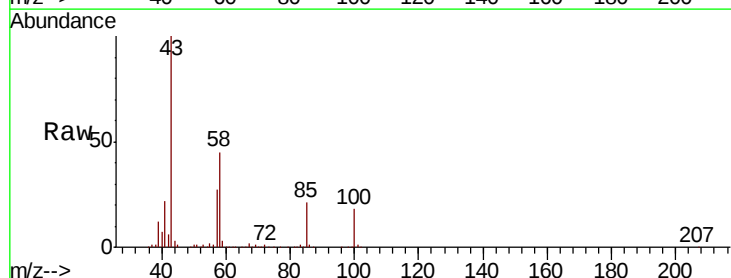
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

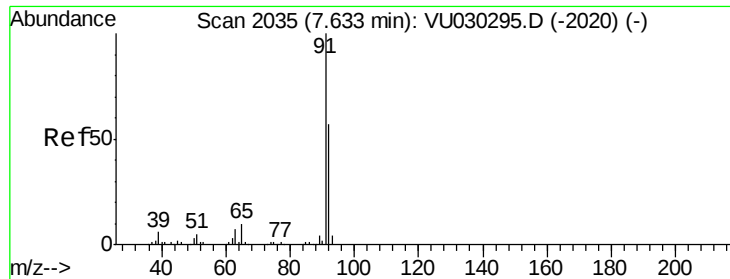
Tgt Ion: 75 Resp: 312138
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 101.925 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030309.D
 Acq: 22 Mar 2019 15:36

Tgt Ion: 43 Resp: 523152
 Ion Ratio Lower Upper
 43 100
 58 44.5 34.4 51.6
 100 18.0 13.9 20.9





#42

Toluene

Concen: 52.566 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

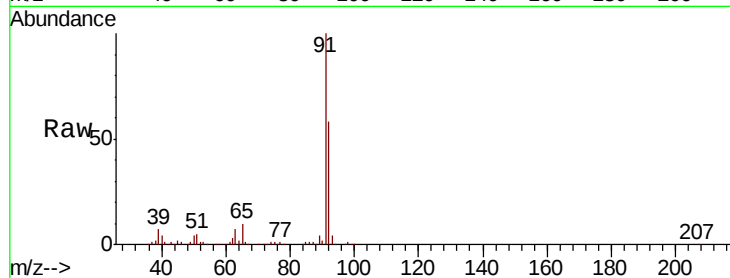
VSTD05054

Tgt Ion: 91 Resp: 834325

Ion Ratio Lower Upper

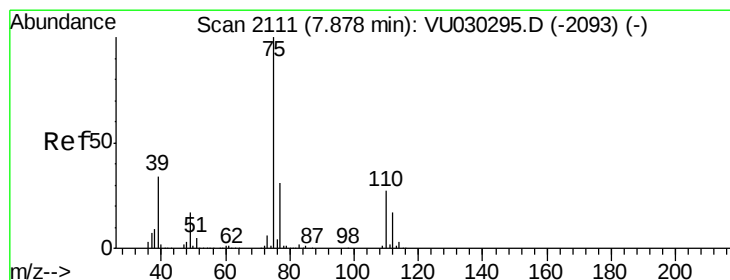
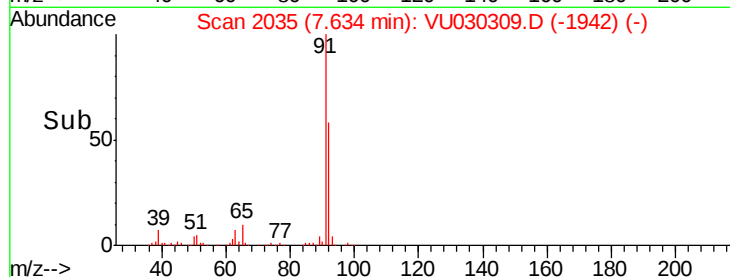
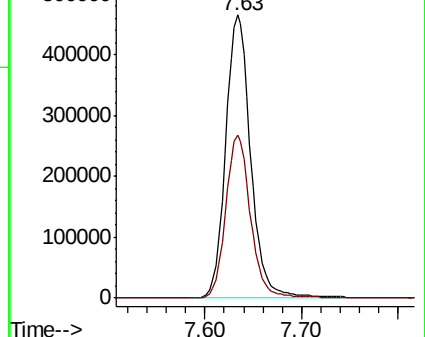
91 100

92 57.8 40.7 75.7



Abundance Ion 91.00 (90.70 to 91.70): VU030309.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU030309.D (-1942) (-)



#44

trans-1,3-Dichloropropene

Concen: 52.753 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030309.D

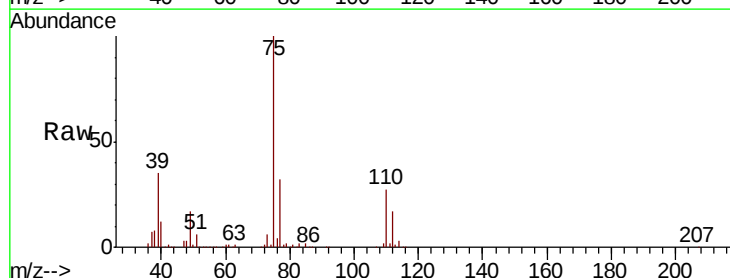
Acq: 22 Mar 2019 15:36

Tgt Ion: 75 Resp: 273517

Ion Ratio Lower Upper

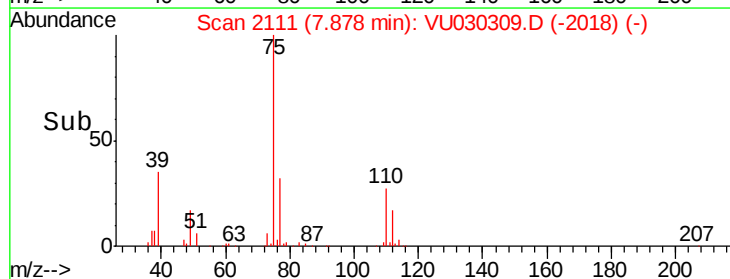
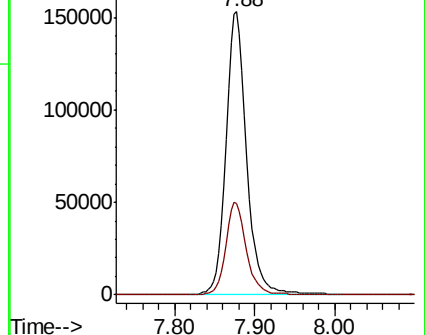
75 100

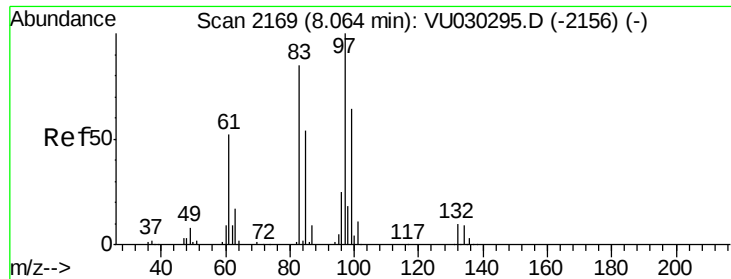
77 32.3 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU030309.D (-2018) (-)

Ion 77.00 (76.70 to 77.70): VU030309.D (-2018) (-)

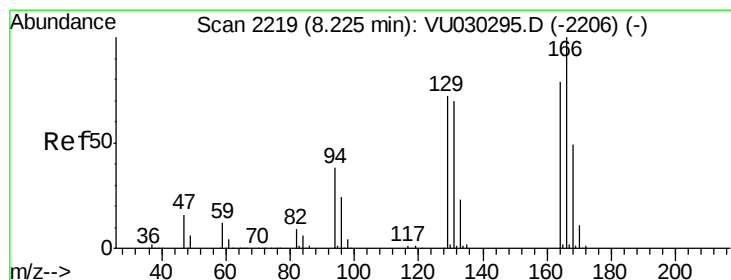
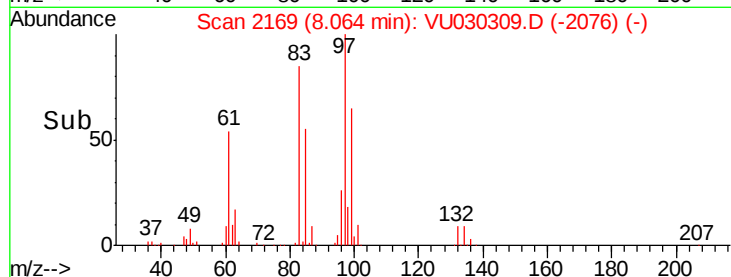
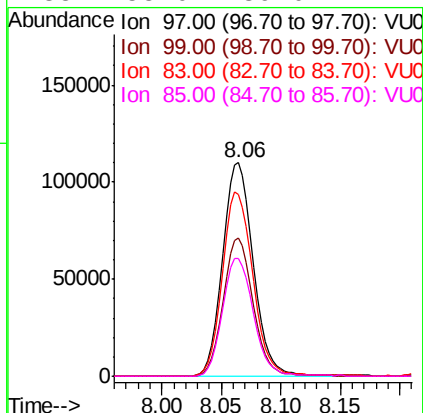
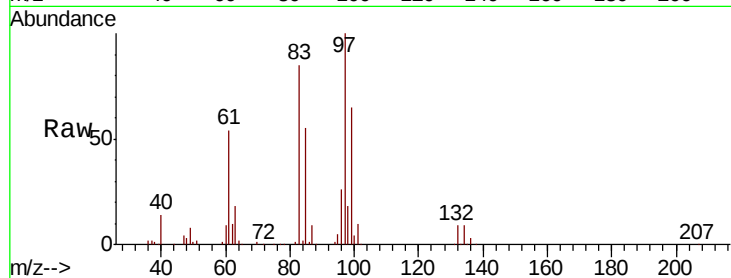




#45
 1,1,2-Trichloroethane
 Concen: 51.370 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030309.D
 Acq: 22 Mar 2019 15:36

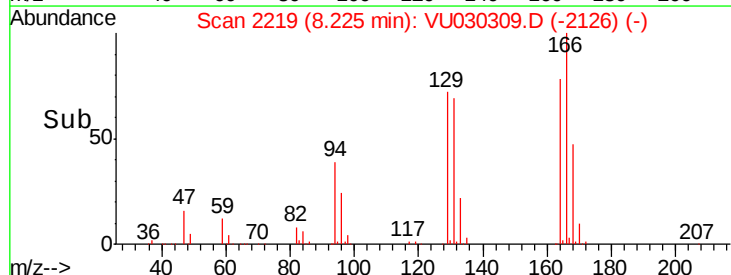
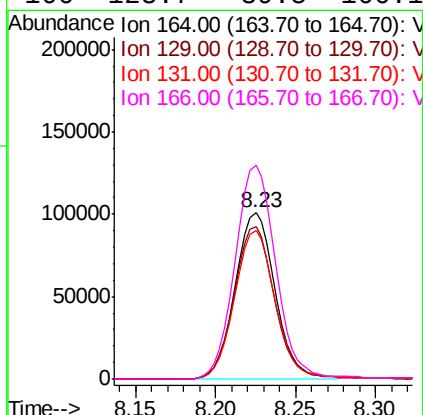
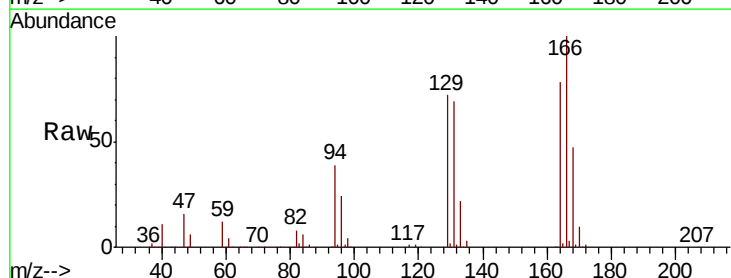
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

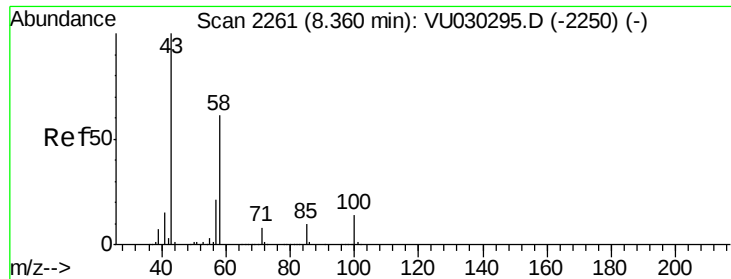
Tgt Ion:	97	Resp:	196931
Ion	Ratio	Lower	Upper
97	100		
99	64.7	43.3	80.5
83	85.4	59.3	110.1
85	55.0	39.0	72.4



#46
 Tetrachloroethene
 Concen: 52.993 ug/L
 RT: 8.23 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030309.D
 Acq: 22 Mar 2019 15:36

Tgt Ion:	164	Resp:	172089
Ion	Ratio	Lower	Upper
164	100		
129	92.1	64.4	119.6
131	89.3	63.2	117.4
166	128.7	89.5	166.1

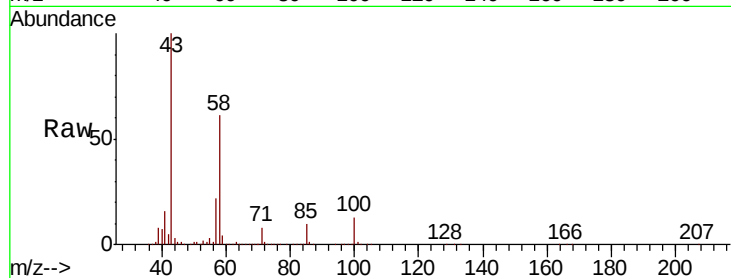




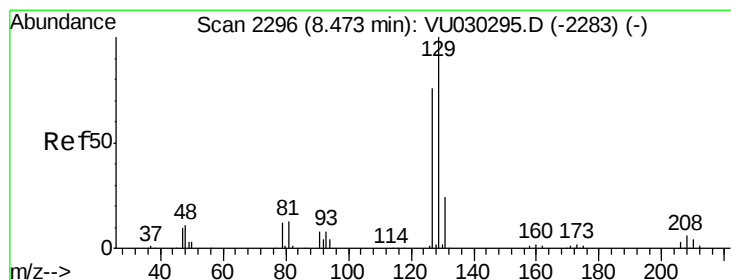
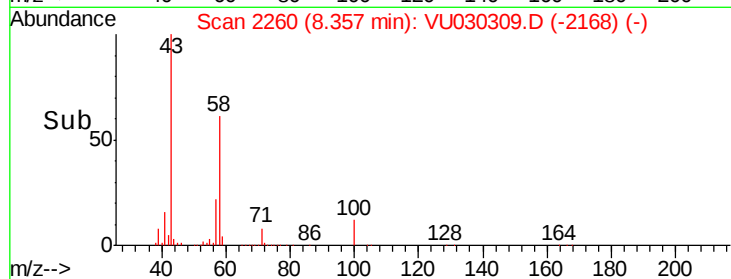
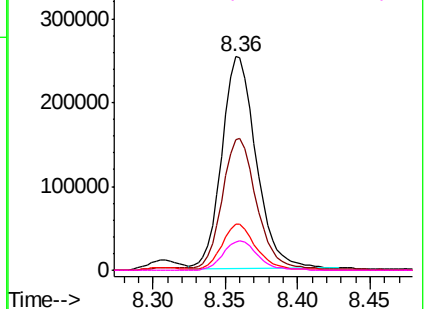
#48
2-Hexanone
Concen: 98.121 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU030309.D
Acq: 22 Mar 2019 15:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

Tgt Ion:	43	Resp:	418004
Ion	Ratio	Lower	Upper
43	100		
58	62.0	49.3	73.9
57	21.1	17.0	25.4
100	14.2	11.0	16.4

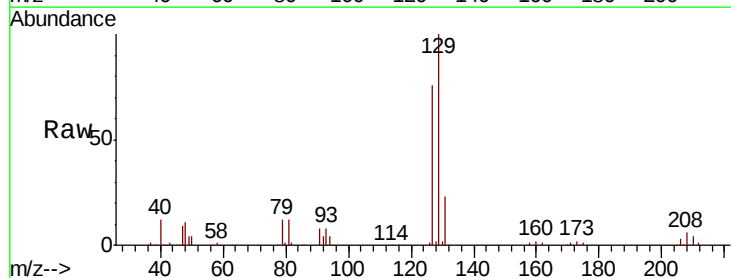


Abundance Ion 43.00 (42.70 to 43.70): VU030295.D (-2250) (-)
Ion 58.00 (57.70 to 58.70): VU030295.D (-2250) (-)
Ion 57.00 (56.70 to 57.70): VU030295.D (-2250) (-)
Ion 100.00 (99.70 to 100.70): VU030295.D (-2250) (-)

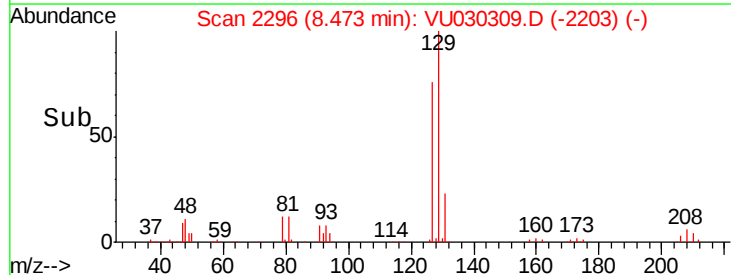
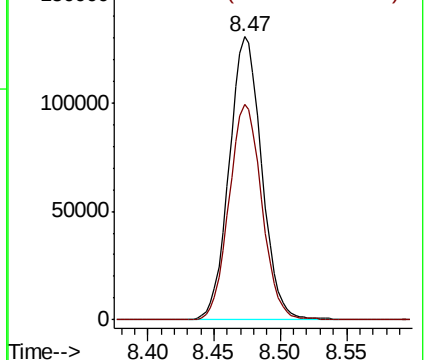


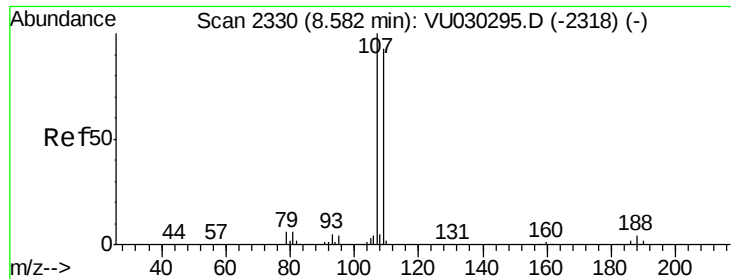
#49
Dibromochloromethane
Concen: 51.842 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030309.D
Acq: 22 Mar 2019 15:36

Tgt Ion:	129	Resp:	222861
Ion	Ratio	Lower	Upper
129	100		
127	76.2	53.4	99.2



Abundance Ion 129.00 (128.70 to 129.70): VU030295.D (-2283) (-)
Ion 127.00 (126.70 to 127.70): VU030295.D (-2283) (-)

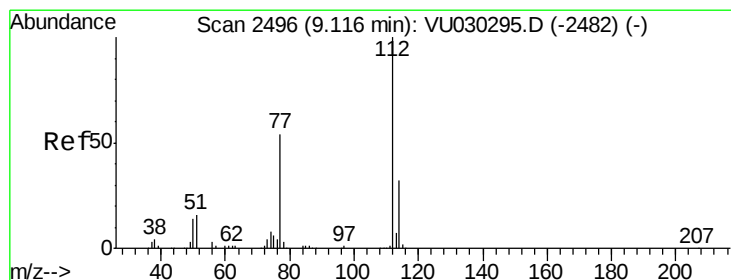
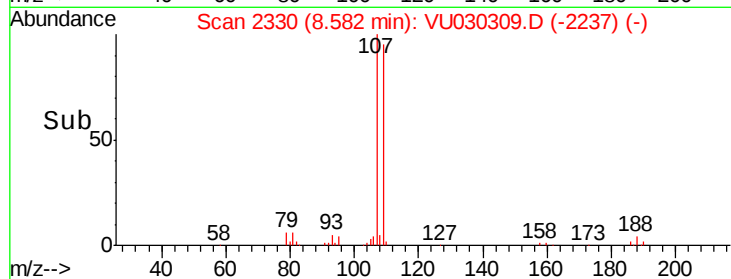
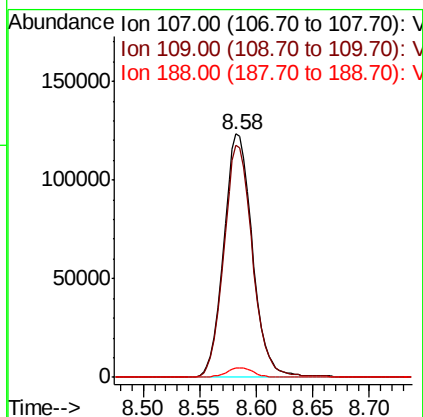
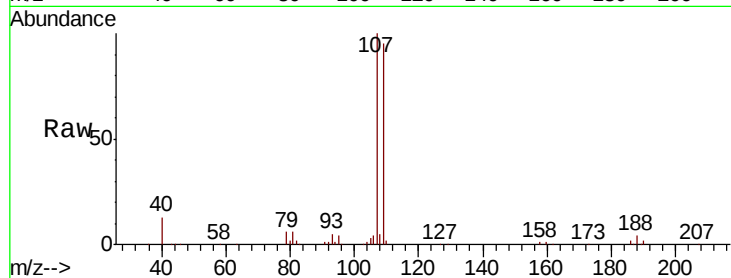




#50
1,2-Dibromoethane
Concen: 51.381 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030309.D
Acq: 22 Mar 2019 15:36

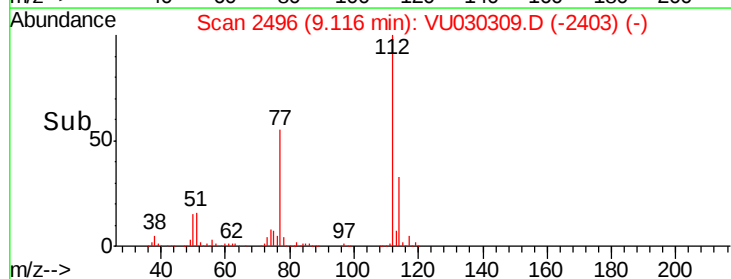
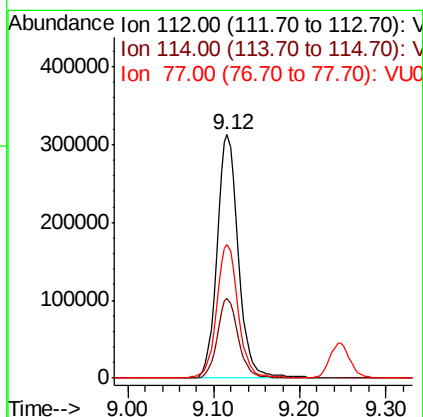
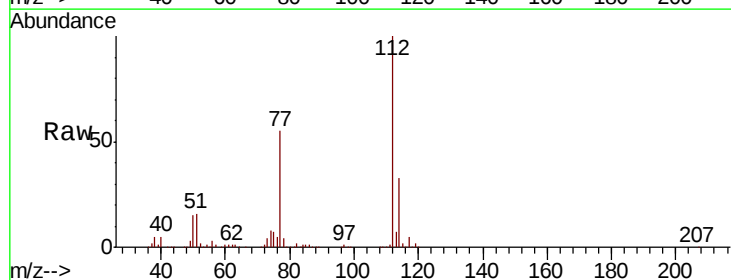
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

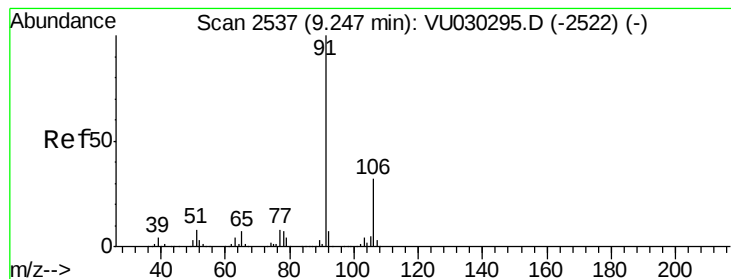
Tgt Ion:107 Resp: 218380
Ion Ratio Lower Upper
107 100
109 95.2 65.4 121.4
188 3.8 2.7 4.1



#51
Chlorobenzene
Concen: 51.142 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030309.D
Acq: 22 Mar 2019 15:36

Tgt Ion:112 Resp: 537036
Ion Ratio Lower Upper
112 100
114 32.8 22.5 41.7
77 54.9 43.4 65.0





#52

Ethylbenzene

Concen: 51.790 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

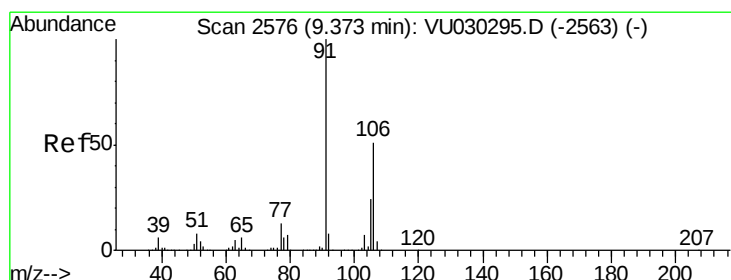
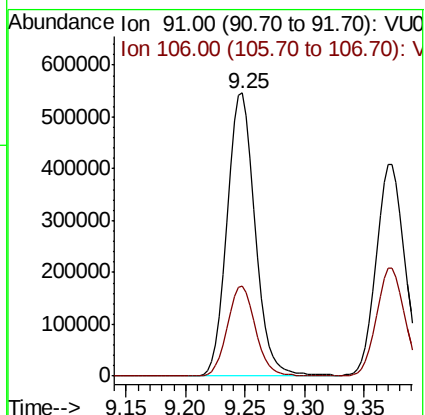
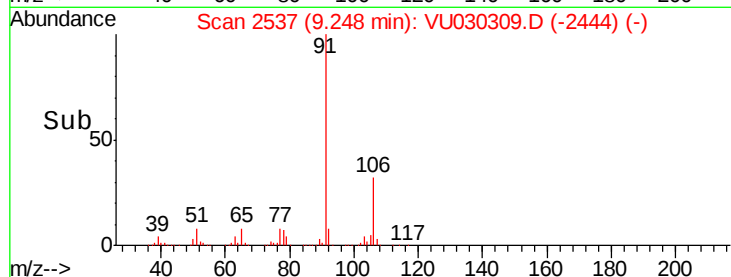
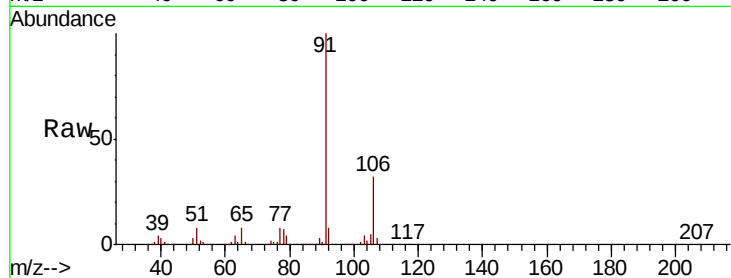
VSTD05054

Tgt Ion: 91 Resp: 892693

Ion Ratio Lower Upper

91 100

106 31.9 22.5 41.7



#53

m,p-Xylene

Concen: 52.512 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030309.D

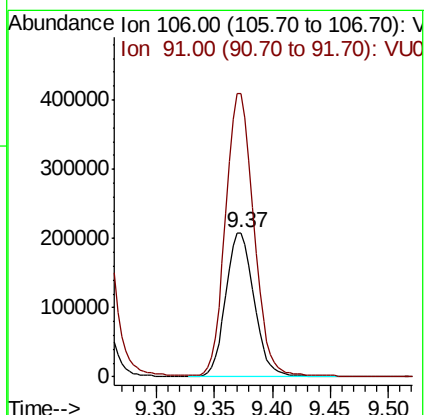
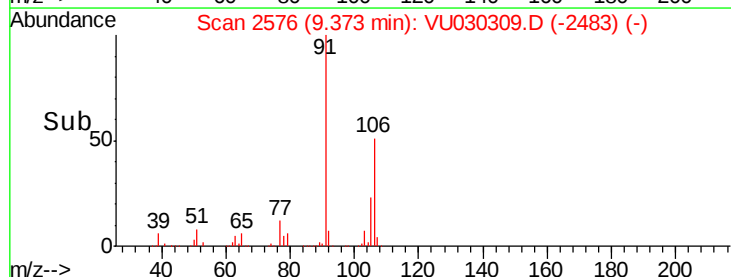
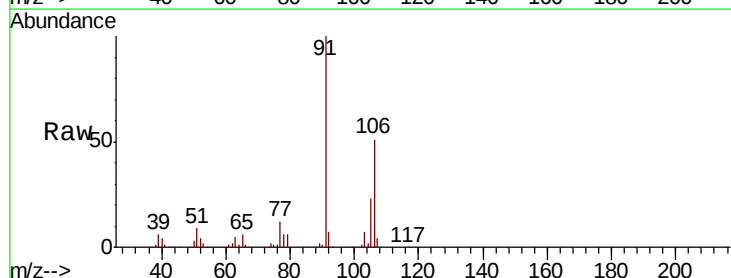
Acq: 22 Mar 2019 15:36

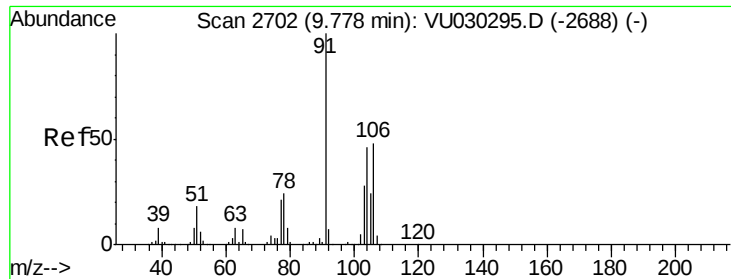
Tgt Ion: 106 Resp: 348723

Ion Ratio Lower Upper

106 100

91 196.6 138.2 256.6





#54

o-xylene

Concen: 52.730 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

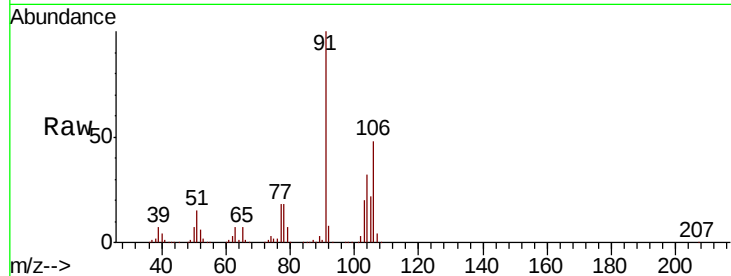
VSTD05054

Tgt Ion:106 Resp: 344227

Ion Ratio Lower Upper

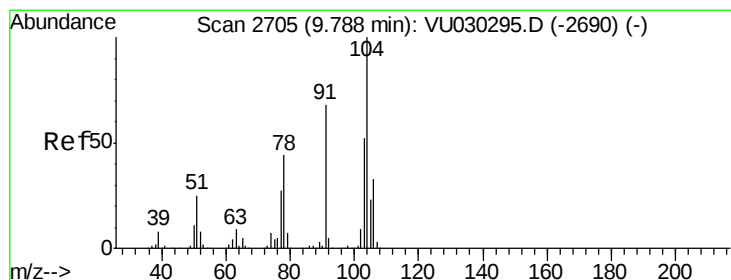
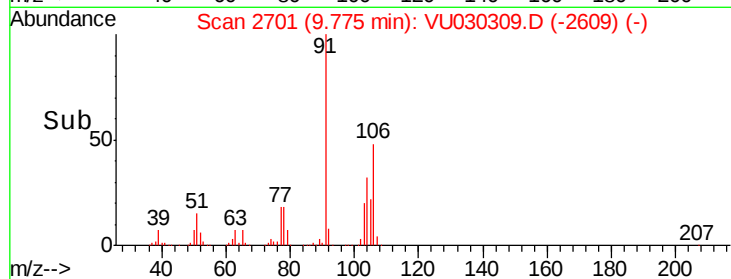
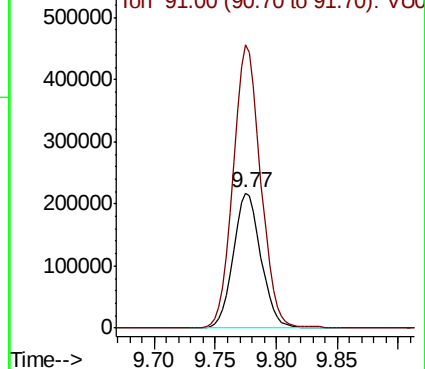
106 100

91 209.0 145.5 270.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.681 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030309.D

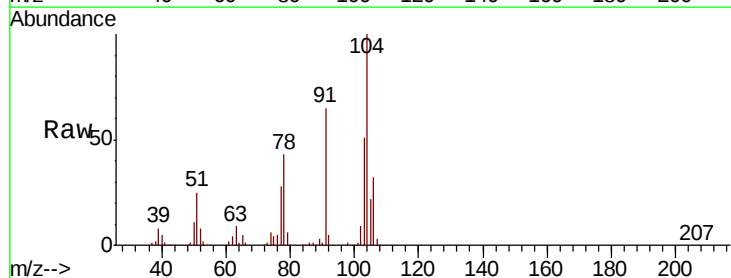
Acq: 22 Mar 2019 15:36

Tgt Ion:104 Resp: 593751

Ion Ratio Lower Upper

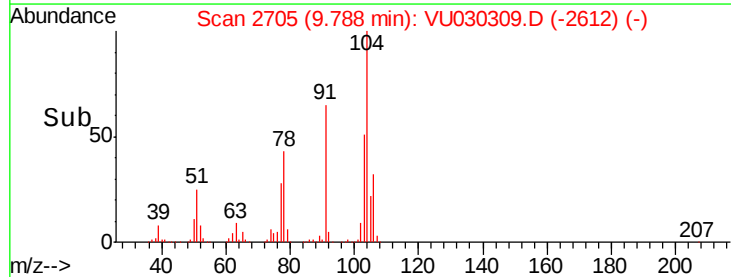
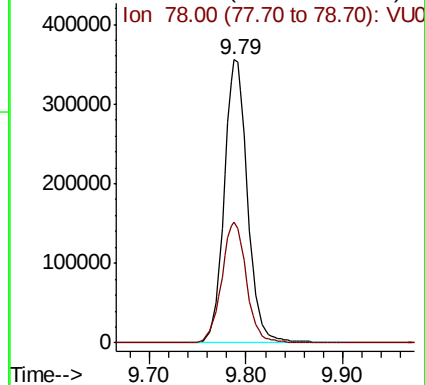
104 100

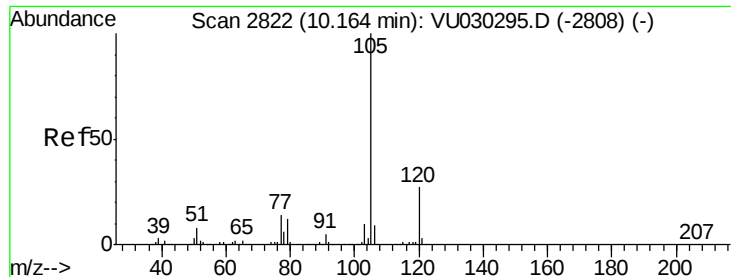
78 42.5 29.8 55.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.827 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

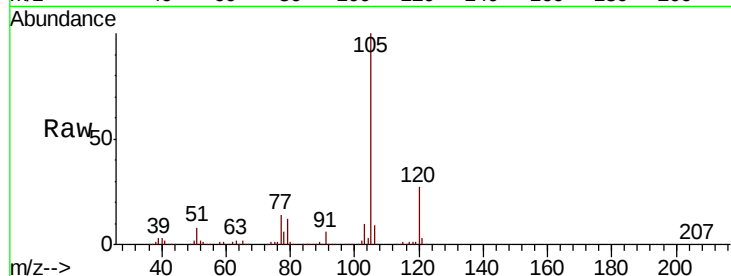
Tgt Ion: 105 Resp: 891594

Ion Ratio Lower Upper

105 100

120 26.8 21.8 32.8

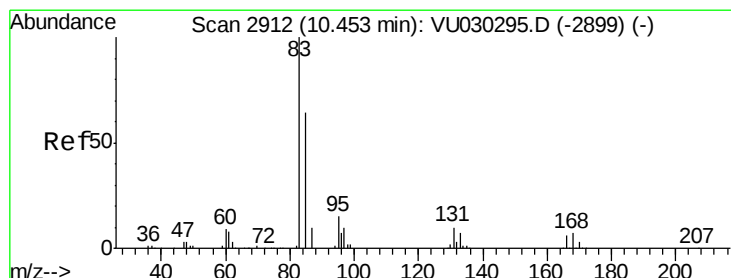
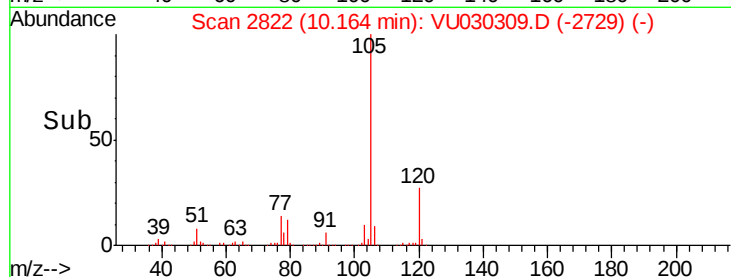
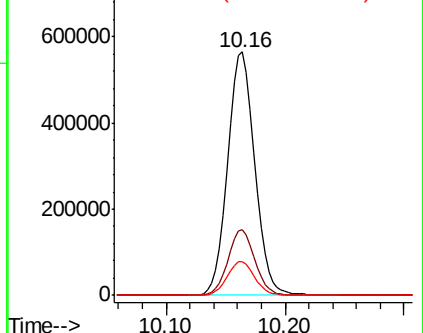
77 13.9 11.3 16.9



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: 51.269 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

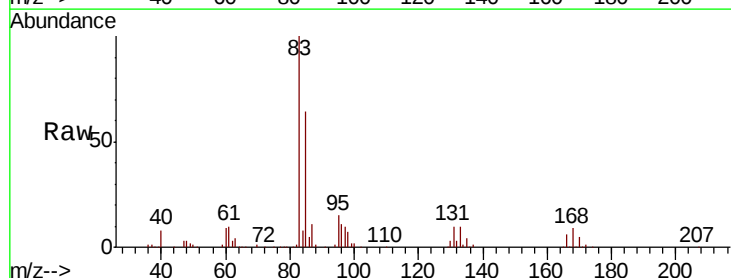
Tgt Ion: 83 Resp: 335147

Ion Ratio Lower Upper

83 100

85 64.5 45.7 84.9

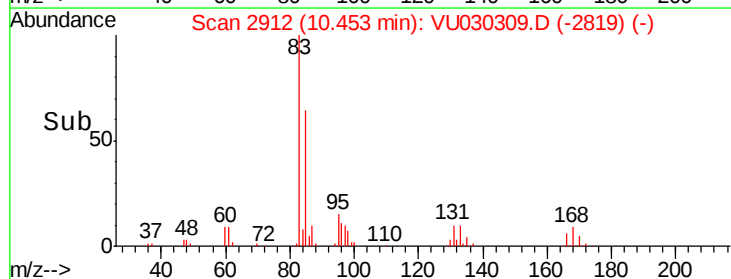
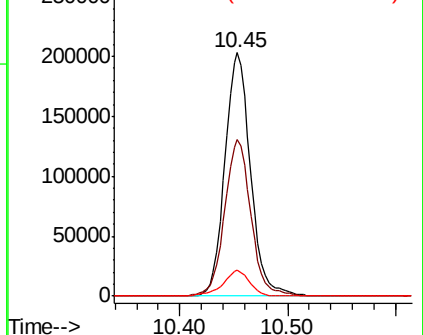
131 10.4 7.8 11.6

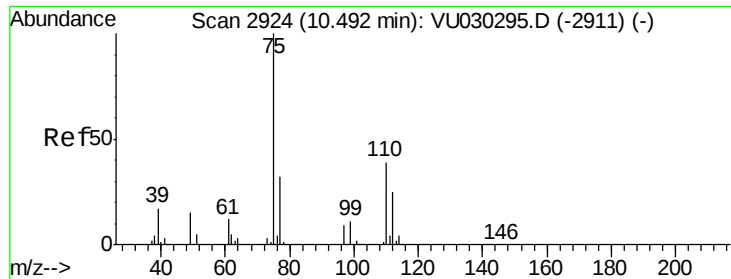


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.920 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

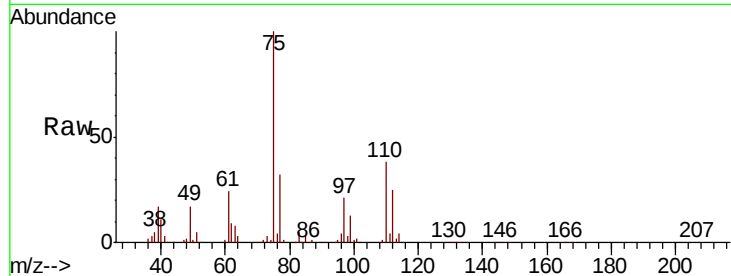
VSTD05054

Tgt Ion: 75 Resp: 257020

Ion Ratio Lower Upper

75 100

77 31.7 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU030295.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU030295.D (-2911) (-)

10.49

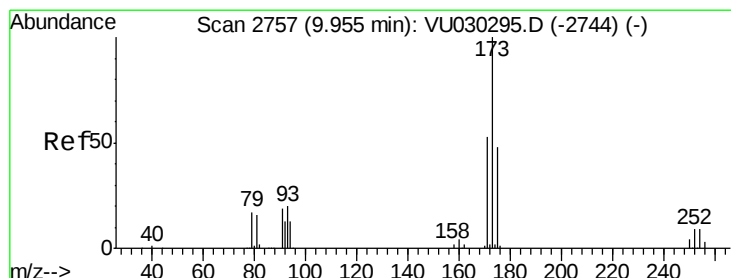
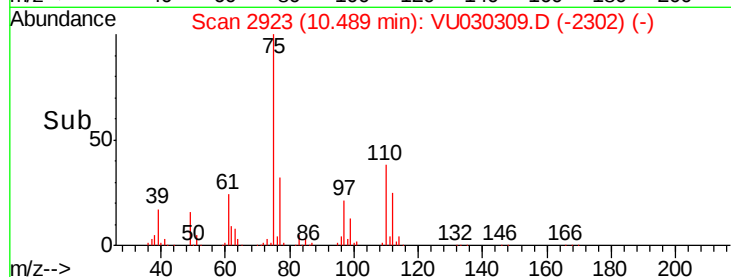
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 51.171 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

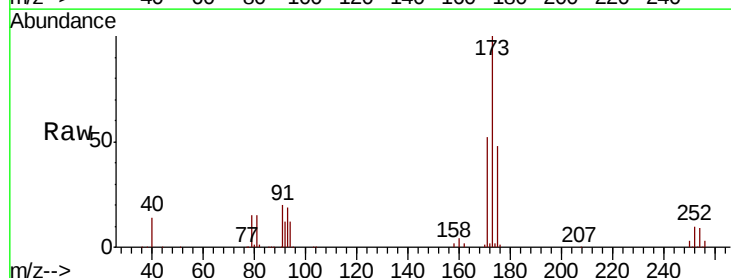
Tgt Ion: 173 Resp: 173867

Ion Ratio Lower Upper

173 100

175 48.5 38.9 58.3

254 9.0 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): VU030295.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU030295.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU030295.D (-2744) (-)

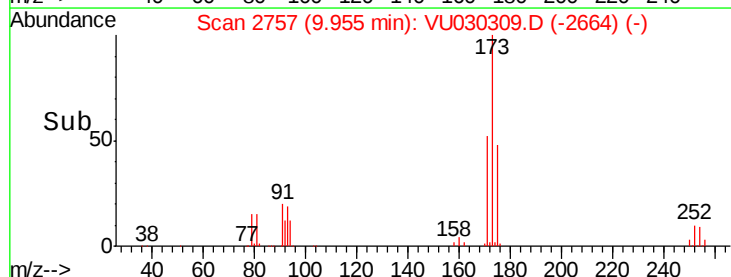
9.95

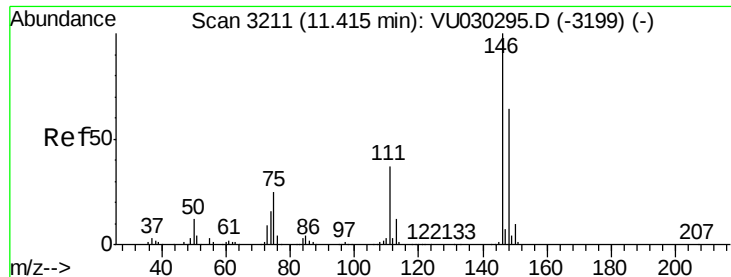
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 50.203 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

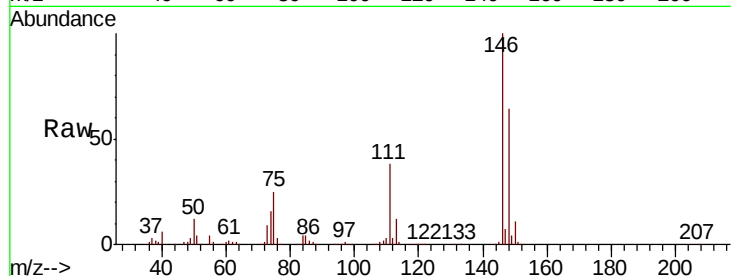
Tgt Ion:146 Resp: 421424

Ion Ratio Lower Upper

146 100

111 38.1 27.2 50.4

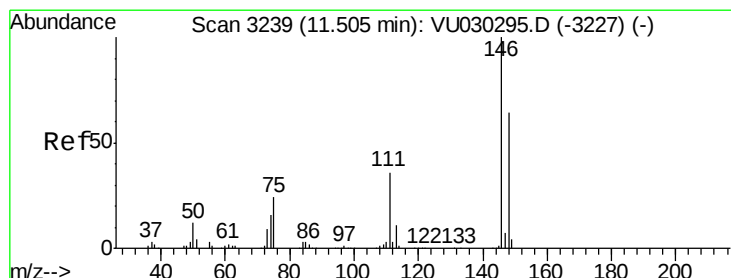
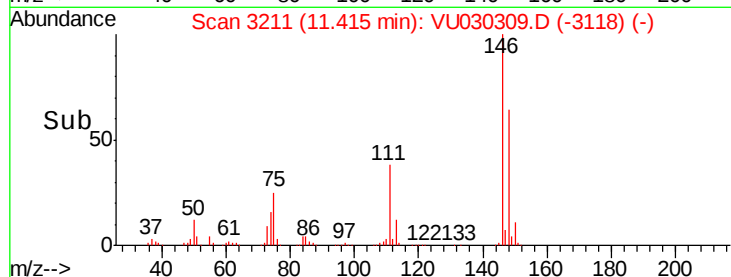
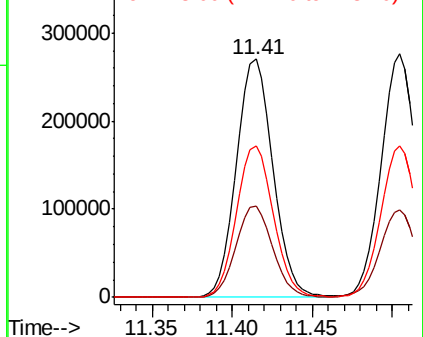
148 63.5 44.4 82.5



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: 50.053 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

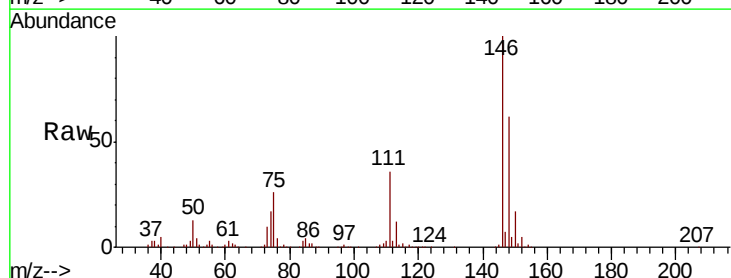
Tgt Ion:146 Resp: 435832

Ion Ratio Lower Upper

146 100

111 36.2 25.3 46.9

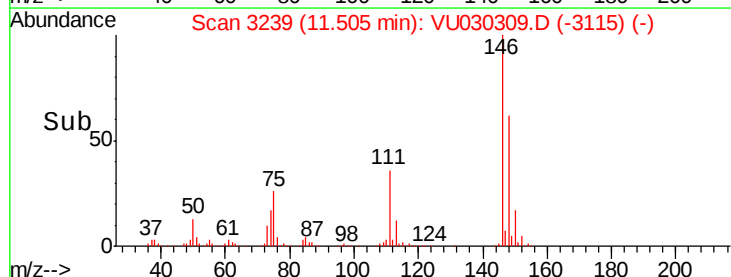
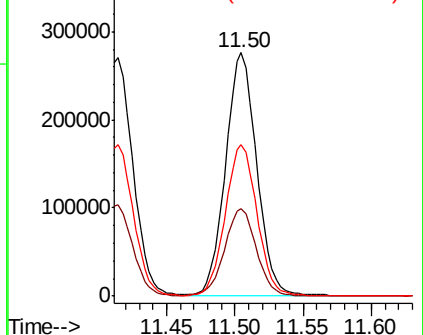
148 62.4 44.7 82.9

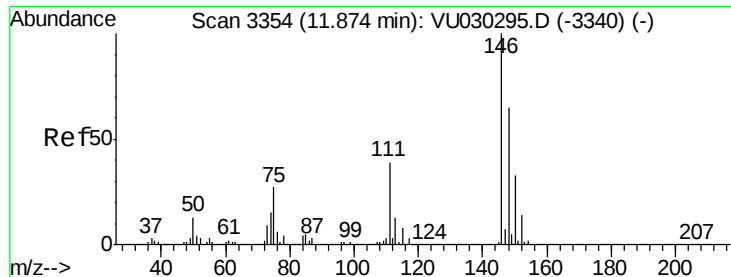


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.415 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

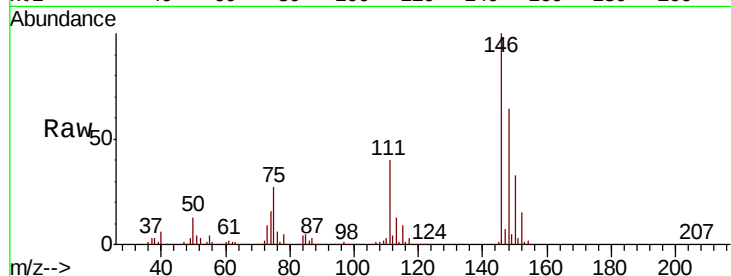
Tgt Ion:146 Resp: 432384

Ion Ratio Lower Upper

146 100

111 39.6 31.7 47.5

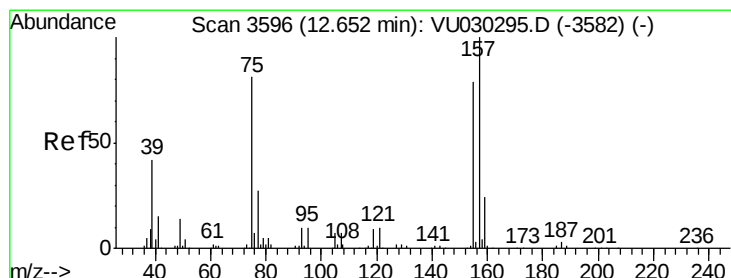
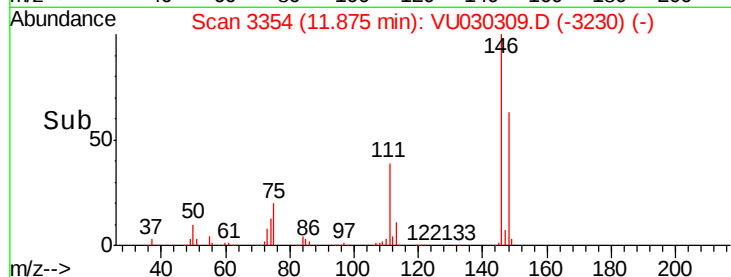
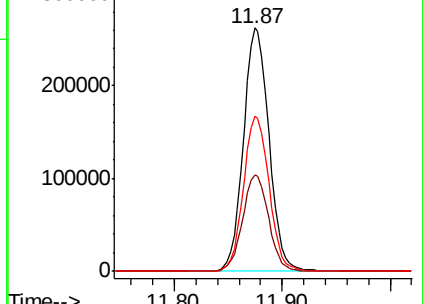
148 63.7 52.0 78.0



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: 50.844 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

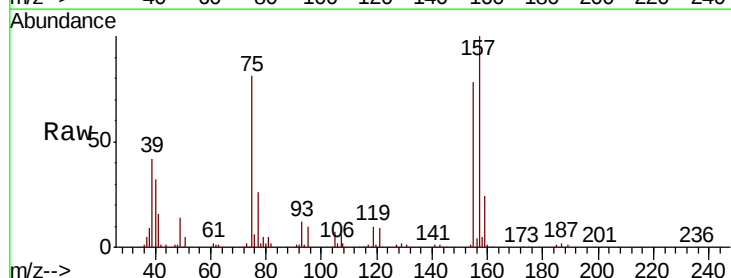
Tgt Ion: 75 Resp: 72906

Ion Ratio Lower Upper

75 100

155 96.7 80.7 121.1

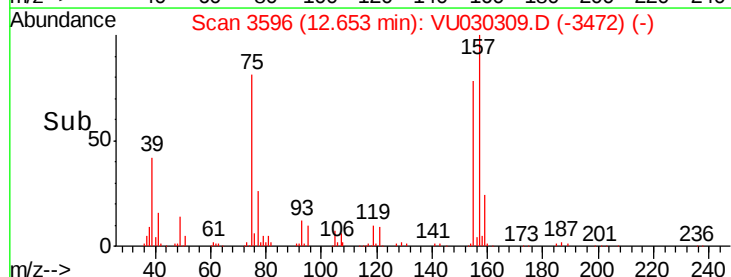
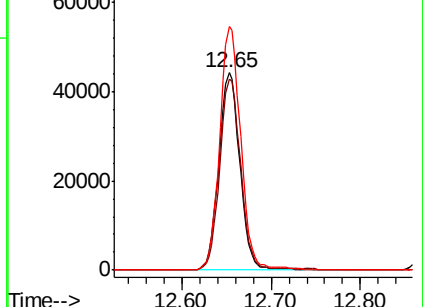
157 123.3 100.8 151.2

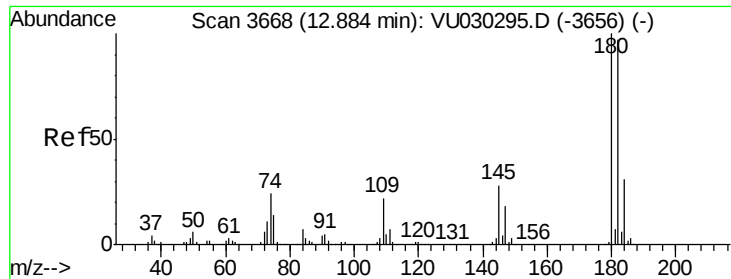


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

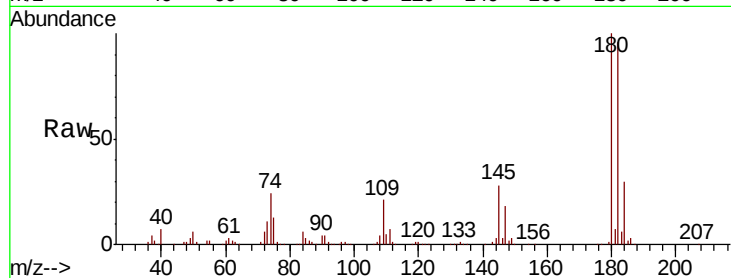




#67
 1,3,5-Trichlorobenzene
 Concen: 50.066 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030309.D
 Acq: 22 Mar 2019 15:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.0	114.0
184	29.9	24.2	36.4
145	28.0	22.1	33.1



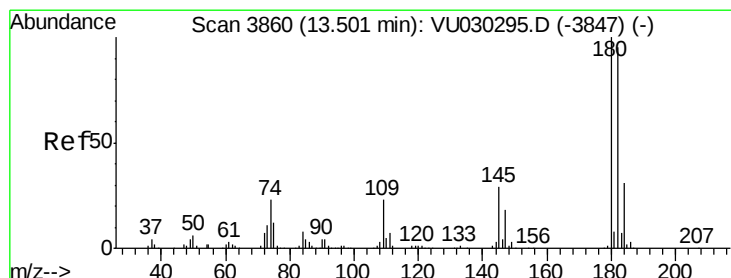
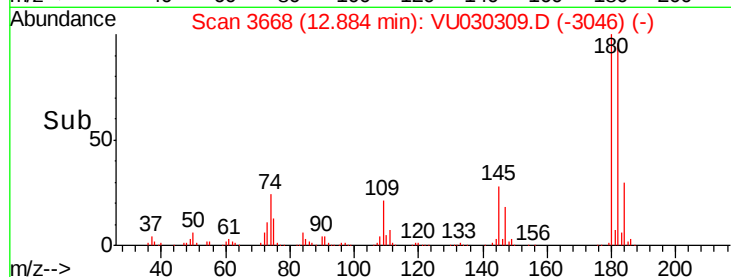
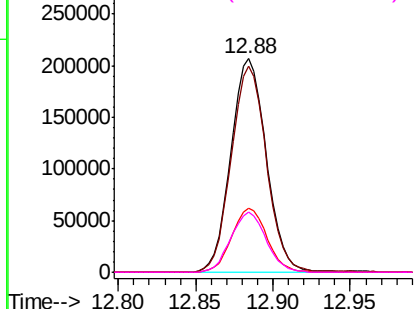
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

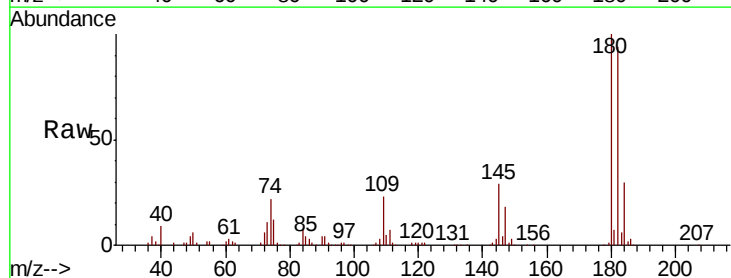
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 48.437 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030309.D
 Acq: 22 Mar 2019 15:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.4	114.6
145	29.1	22.7	34.1

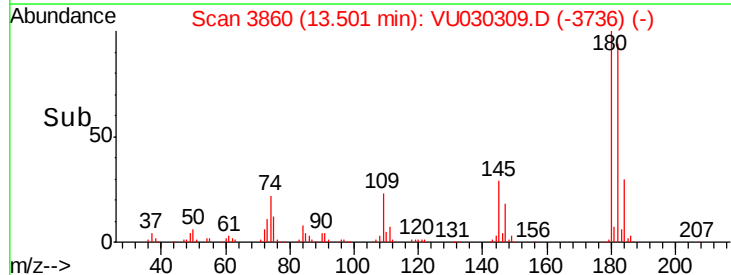
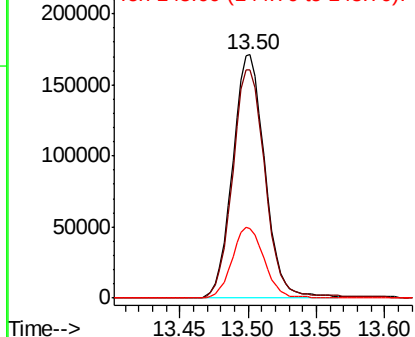


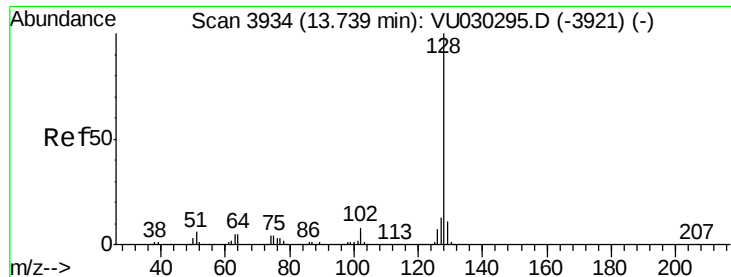
Abundance

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





#69

Naphthalene

Concen: 45.390 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

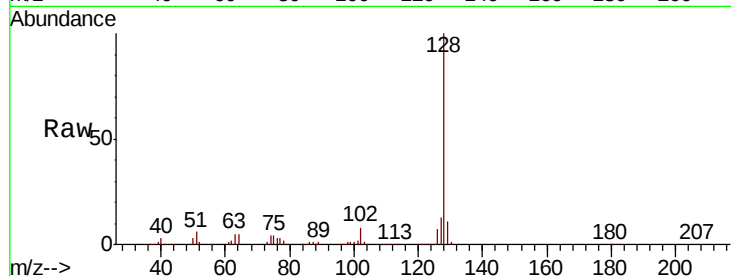
Tgt Ion:128 Resp: 835475

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

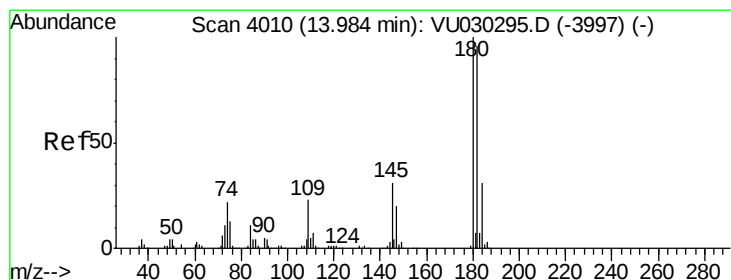
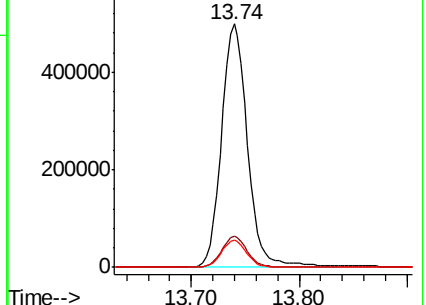
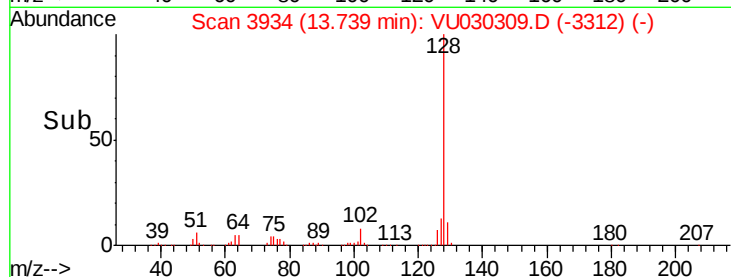
129 10.8 8.5 12.7



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: 48.008 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030309.D

Acq: 22 Mar 2019 15:36

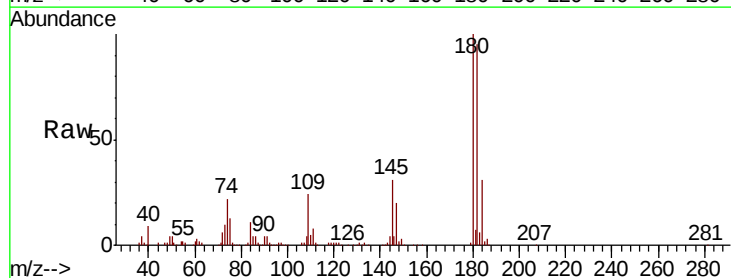
Tgt Ion:180 Resp: 290618

Ion Ratio Lower Upper

180 100

182 96.2 75.9 113.9

145 31.0 24.1 36.1



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

