

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU030975.D
 Acq On : 09 Apr 2019 23:04
 Operator : JC/SP
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Quant Time: Apr 10 04:32:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 10 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	250614	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	249112	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	113231	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	75028	3.92	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.40%
7) Chloroethane-d5	1.68	69	69530	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.00%
11) 1,1-Dichloroethene-d2	2.27	63	173976	4.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.80%
20) 2-Butanone-d5	4.18	46	257703	52.22	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.44%
24) Chloroform-d	4.64	84	143550	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
26) 1,2-Dichloroethane-d4	5.31	65	82908	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%
32) Benzene-d6	5.33	84	278312	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.00%
36) 1,2-Dichloropropane-d6	6.33	67	93910	4.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.40%
41) Toluene-d8	7.56	98	246367	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.20%
43) trans-1,3-Dichloropropene-	7.85	79	34229	4.19	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.80%
46) 2-Hexanone-d5	8.31	63	175978	49.53	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.06%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	80810	5.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	87027	4.59	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	134784	4.828	ug/L 100
3) Chloromethane	1.32	50	147150	4.496	ug/L 100
5) Vinyl chloride	1.40	62	149571	4.988	ug/L 99
6) Bromomethane	1.62	94	76254	5.198	ug/L 99
8) Chloroethane	1.69	64	87445	5.126	ug/L 98
9) Trichlorofluoromethane	1.88	101	184394	5.425	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	97028	5.133	ug/L 98
12) 1,1-Dichloroethene	2.28	96	94151	5.149	ug/L 89
13) Acetone	2.32	43	226886	59.468	ug/L 99
14) Carbon disulfide	2.47	76	311204	4.853	ug/L 99
15) Methyl Acetate	2.61	43	60664	6.155	ug/L 96
16) Methylene chloride	2.69	84	109904	5.155	ug/L 98
17) Methyl tert-butyl Ether	3.00	73	274834	5.614	ug/L 98
18) trans-1,2-Dichloroethene	2.97	96	99576	5.158	ug/L 98
19) 1,1-Dichloroethane	3.44	63	197125	4.827	ug/L 99
21) 2-Butanone	4.27	43	327884	54.226	ug/L 99
22) cis-1,2-Dichloroethene	4.22	96	101829	4.946	ug/L 93

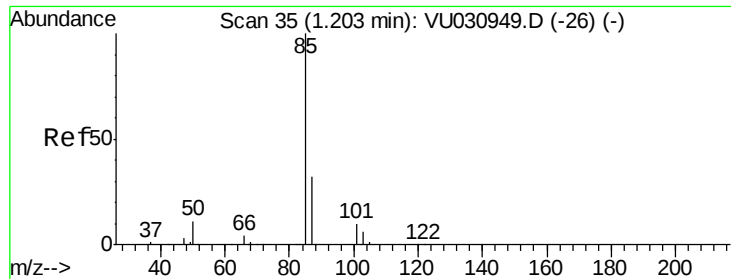
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU030975.D
 Acq On : 09 Apr 2019 23:04
 Operator : JC/SP
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Quant Time: Apr 10 04:32:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 10 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	45962	5.589	ug/L	91
25) Chloroform	4.67	83	197829	5.314	ug/L	99
27) 1,2-Dichloroethane	5.40	62	122222	5.060	ug/L	97
29) 1,1,1-Trichloroethane	4.91	97	158382	4.991	ug/L	98
30) Cyclohexane	4.98	56	151755	3.961	ug/L	94
31) Carbon tetrachloride	5.12	117	137187	5.149	ug/L	96
33) Benzene	5.38	78	402186	4.773	ug/L	100
34) Trichloroethene	6.18	95	101251	4.800	ug/L	95
35) Methylcyclohexane	6.41	83	139728	4.150	ug/L	98
37) 1,2-Dichloropropane	6.43	63	104360	4.500	ug/L #	96
38) Bromodichloromethane	6.75	83	132660	4.899	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	136254	4.393	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	760731	52.584	ug/L	99
42) Toluene	7.63	91	421178	4.984	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	116681	4.861	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	72319	5.230	ug/L	95
47) Tetrachloroethene	8.22	164	75256	5.086	ug/L	95
48) 2-Hexanone	8.36	43	570066	56.870	ug/L	97
49) Dibromochloromethane	8.47	129	88590	5.357	ug/L	98
50) 1,2-Dibromoethane	8.58	107	70577	5.475	ug/L	96
51) Chlorobenzene	9.12	112	251122	4.819	ug/L	99
52) Ethylbenzene	9.25	91	410622	4.555	ug/L	96
53) m,p-Xylene	9.37	106	151738	4.819	ug/L	95
54) o-Xylene	9.77	106	146863	4.757	ug/L	98
55) Styrene	9.79	104	259085	4.974	ug/L	100
56) Isopropylbenzene	10.16	105	387854	4.702	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	96628	5.256	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	67695	5.224	ug/L	97
61) Bromoform	9.95	173	51760	6.036	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	173799	4.865	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	174081	4.648	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	171900	4.945	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.65	75	15464	5.749	ug/L	90
67) 1,3,5-Trichlorobenzene	12.88	180	129508	4.858	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	101966	4.953	ug/L	99
69) Naphthalene	13.74	128	161202	4.876	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	102429	5.338	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 4.828 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

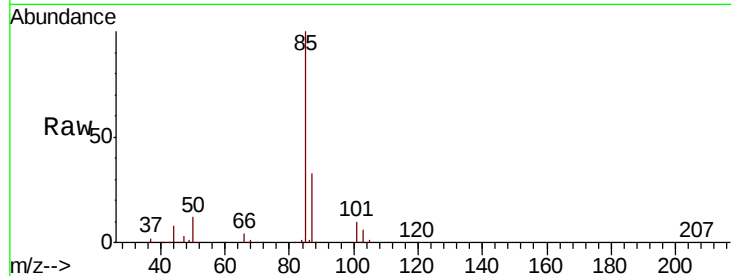
VSTD00515

Tot Ion: 85 Resp: 134784

Ion Ratio Lower Upper

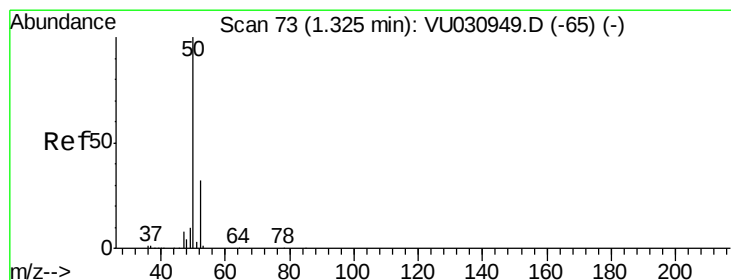
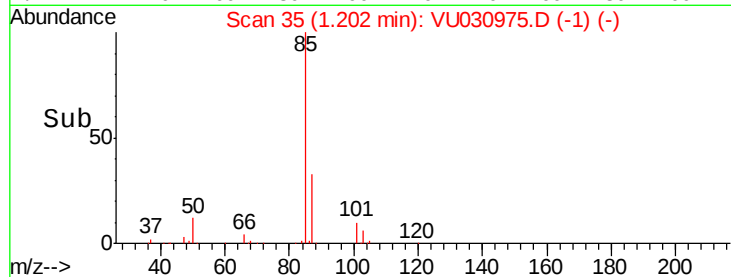
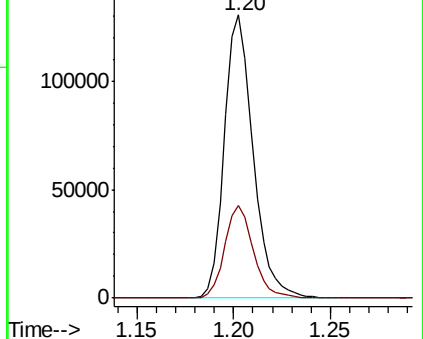
85 100

87 32.4 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU030975.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030975.D (-1) (-)



#3

Chloromethane

Concen: 4.496 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU030975.D

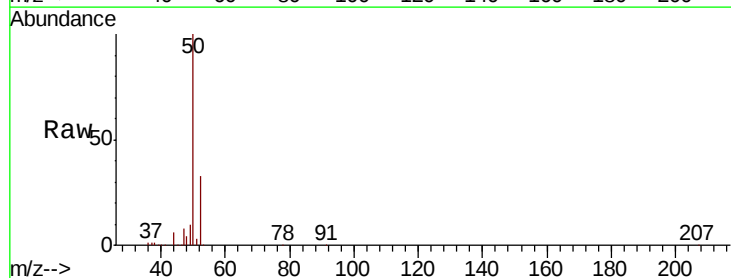
Acq: 09 Apr 2019 23:04

Tgt Ion: 50 Resp: 147150

Ion Ratio Lower Upper

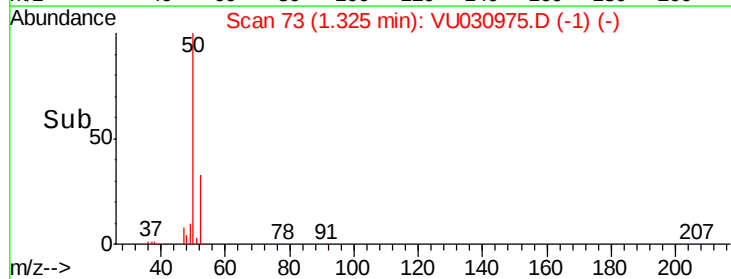
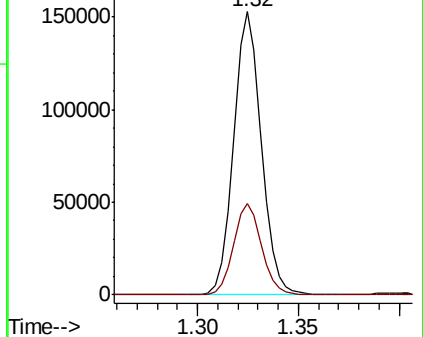
50 100

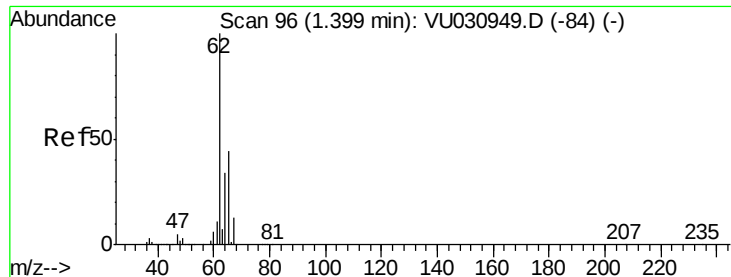
52 32.5 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU030975.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU030975.D (-1) (-)





#5

Vinyl chloride

Concen: 4.988 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

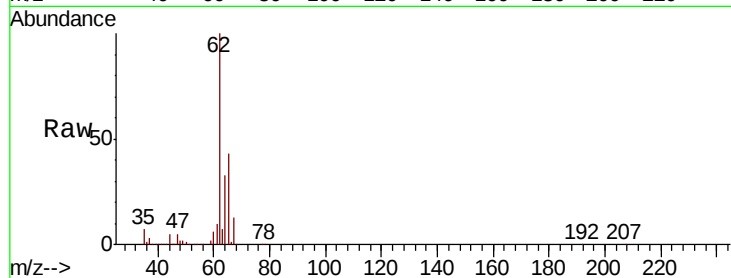
VSTD00515

Tot Ion: 62 Resp: 149571

Ion Ratio Lower Upper

62 100

64 32.6 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU030949.D (-84) (-)

Ion 64.10 (63.80 to 64.80): VU030949.D (-84) (-)

1.40

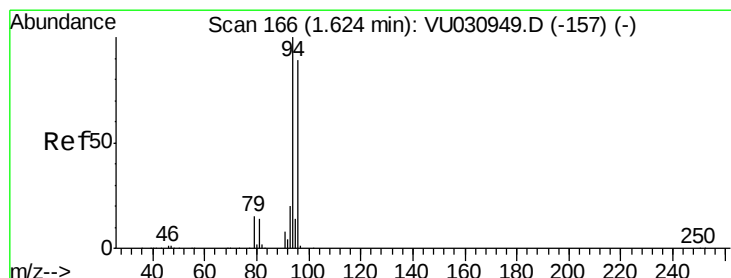
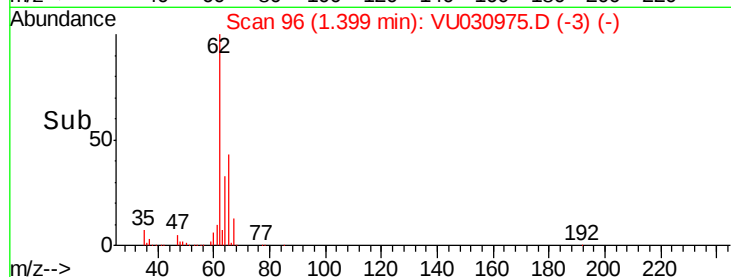
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 5.198 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU030975.D

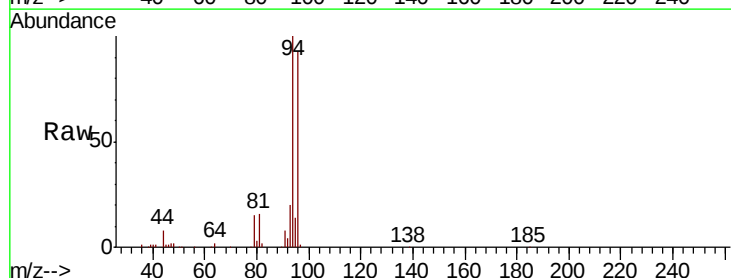
Acq: 09 Apr 2019 23:04

Tgt Ion: 94 Resp: 76254

Ion Ratio Lower Upper

94 100

96 93.4 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU030949.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU030949.D (-157) (-)

1.62

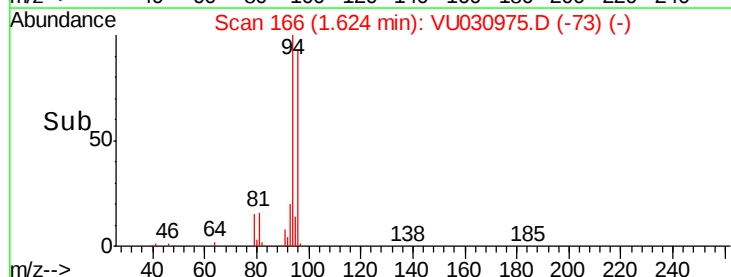
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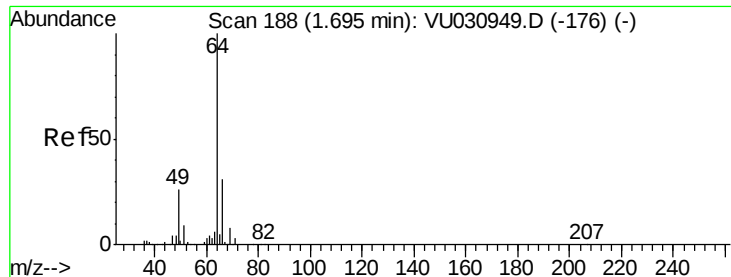
40000

20000

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Time-->





#8

Chloroethane

Concen: 5.126 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

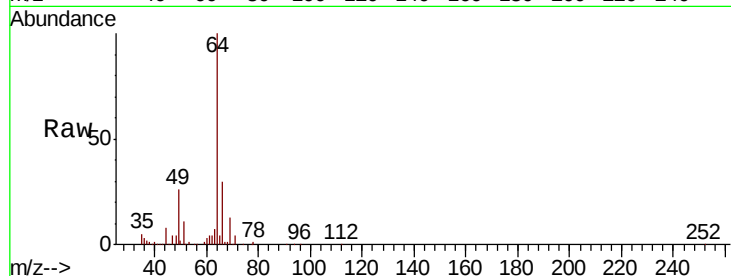
VSTD00515

Tot Ion: 64 Resp: 87445

Ion Ratio Lower Upper

64 100

66 30.5 22.1 41.1

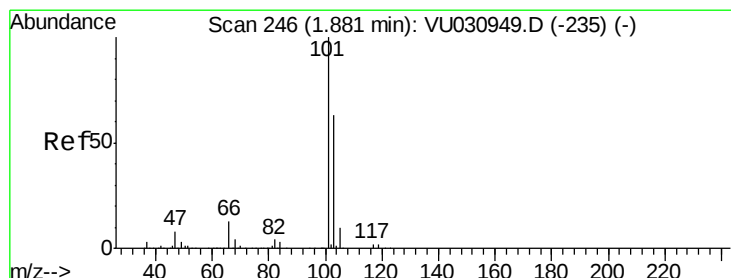
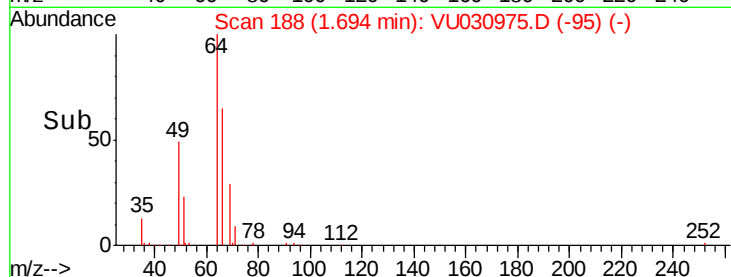


Abundance Ion 64.10 (63.80 to 64.80): VU030975.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU030975.D (-176) (-)

1.69

Time-->



#9

Trichlorofluoromethane

Concen: 5.425 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU030975.D

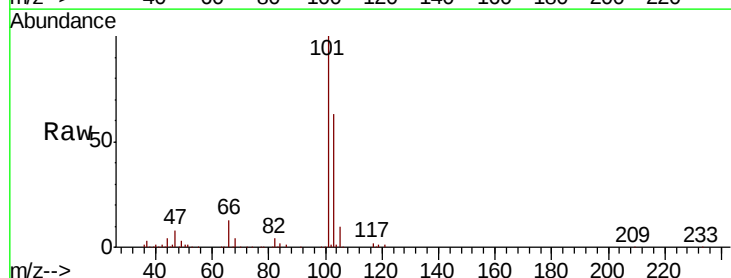
Acq: 09 Apr 2019 23:04

Tgt Ion:101 Resp: 184394

Ion Ratio Lower Upper

101 100

103 63.9 52.0 78.0

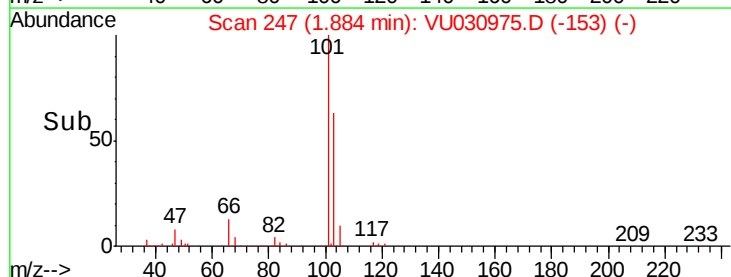


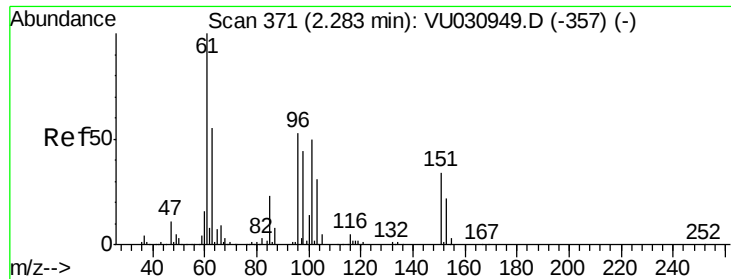
Abundance Ion 101.00 (100.70 to 101.70): VU030975.D (-153) (-)

Ion 103.00 (102.70 to 103.70): VU030975.D (-153) (-)

1.88

Time-->





#10

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

Concen: 5.133 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

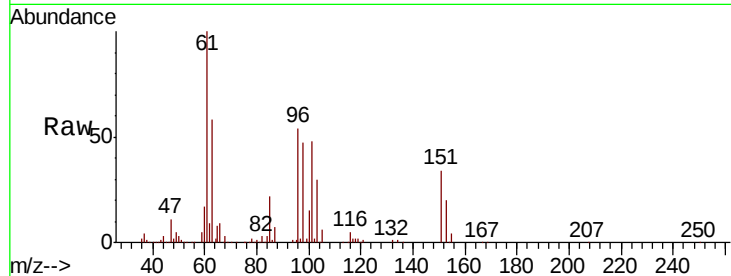
Tot Ion:101 Resp: 97028

Ion Ratio Lower Upper

101 100

85 45.8 35.3 52.9

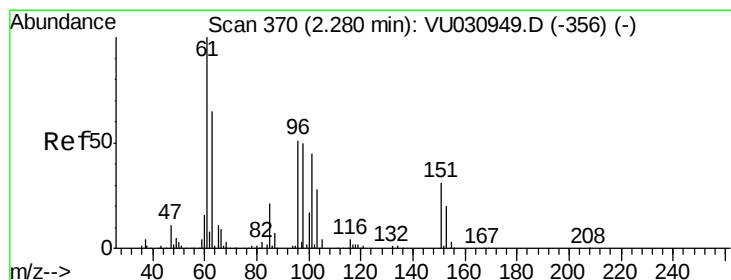
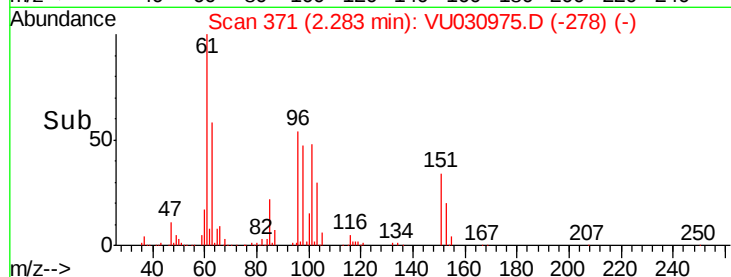
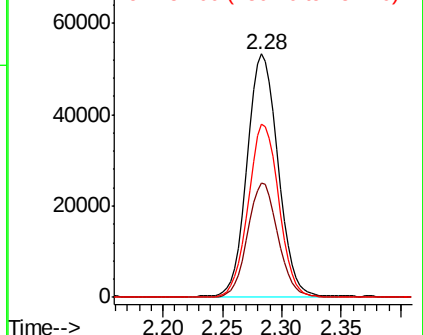
151 70.0 55.2 82.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.149 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

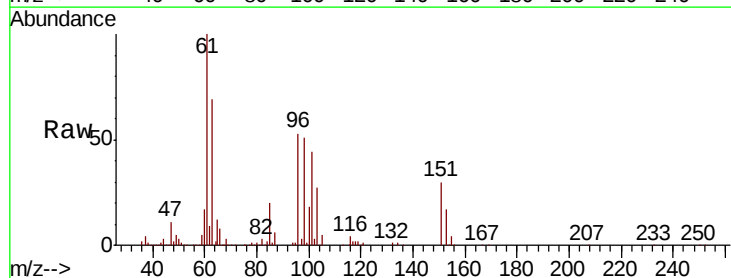
Tgt Ion: 96 Resp: 94151

Ion Ratio Lower Upper

96 100

61 187.9 136.9 254.3

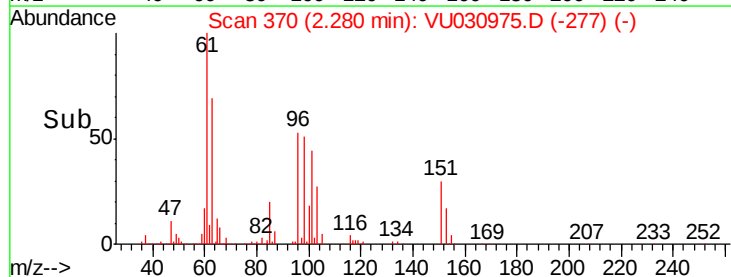
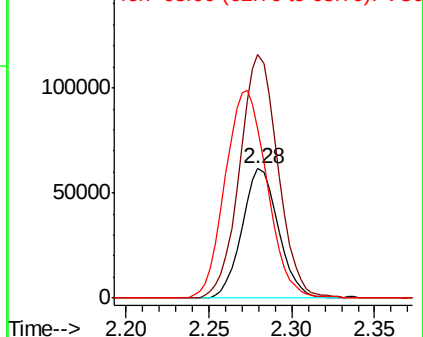
63 130.3 107.7 200.1

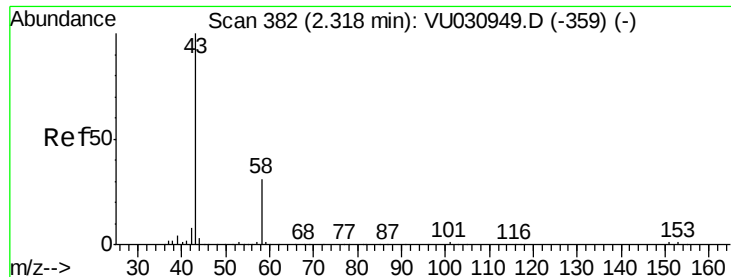


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 59.468 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

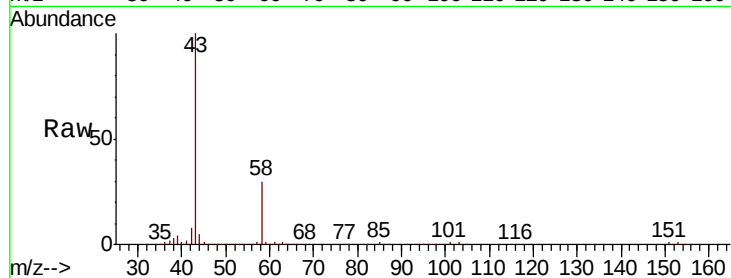
VSTD00515

Tot Ion: 43 Resp: 226886

Ion Ratio Lower Upper

43 100

58 30.7 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU030949.D (-359) (-)

Ion 58.05 (57.75 to 58.75): VU030949.D (-359) (-)

2.32

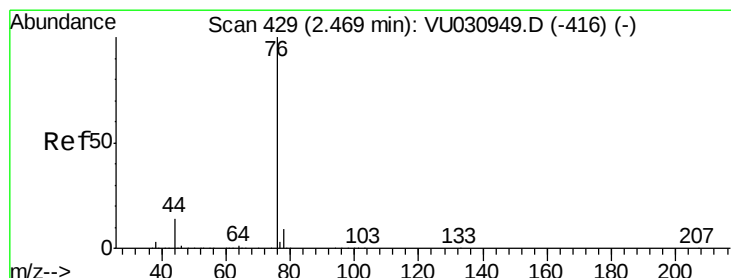
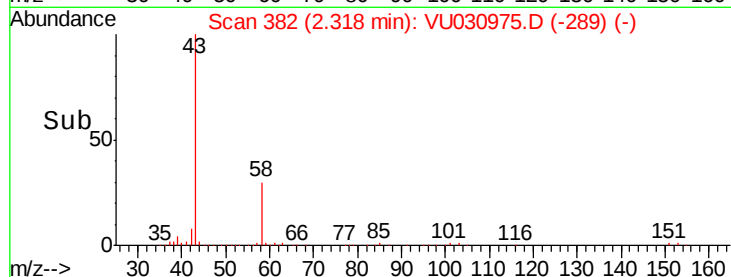
150000

100000

50000

0

Time--> 2.20 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 4.853 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030975.D

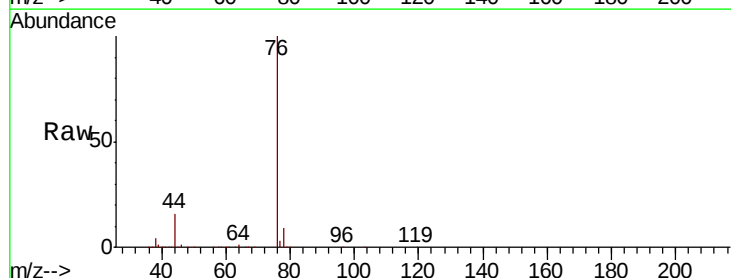
Acq: 09 Apr 2019 23:04

Tgt Ion: 76 Resp: 311204

Ion Ratio Lower Upper

76 100

78 9.2 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU030949.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU030949.D (-416) (-)

2.47

200000

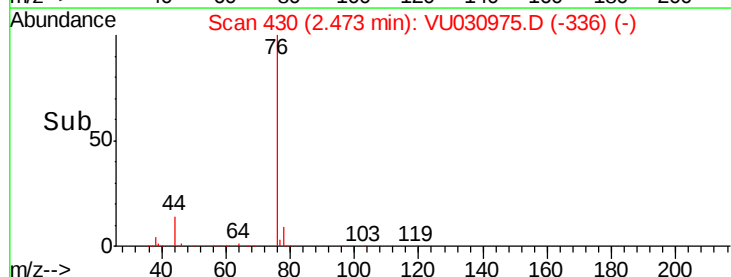
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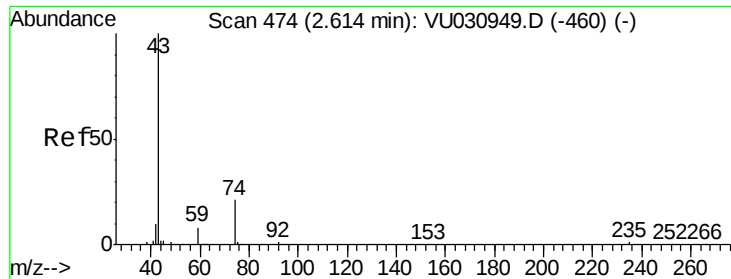
100000

50000

0

Time--> 2.40 2.45 2.50 2.55

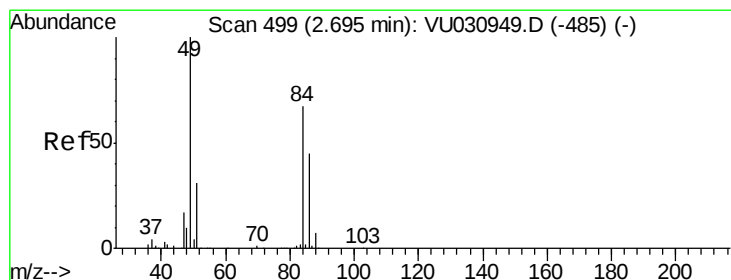
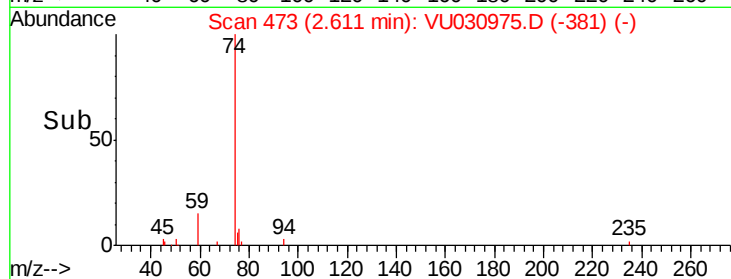
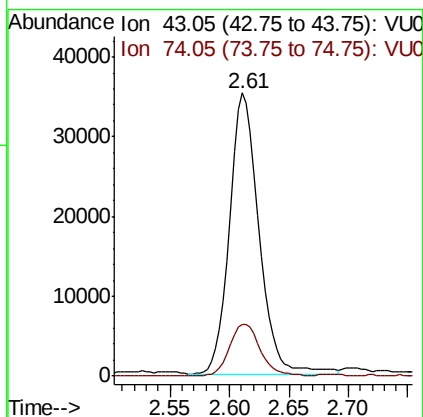
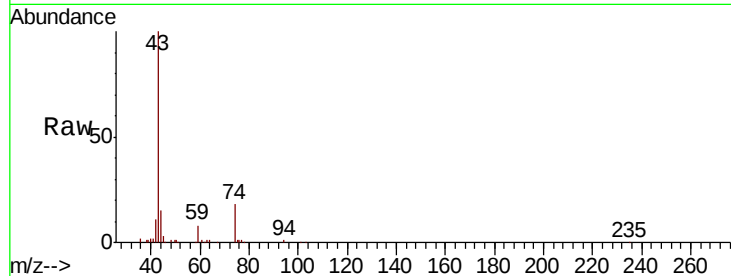




#15
Methyl Acetate
Concen: 6.155 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

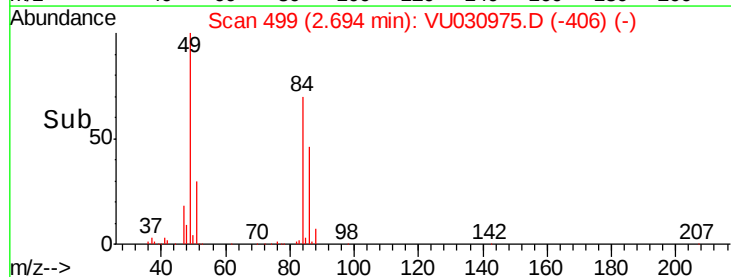
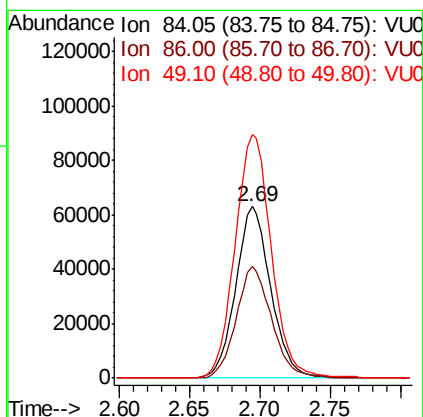
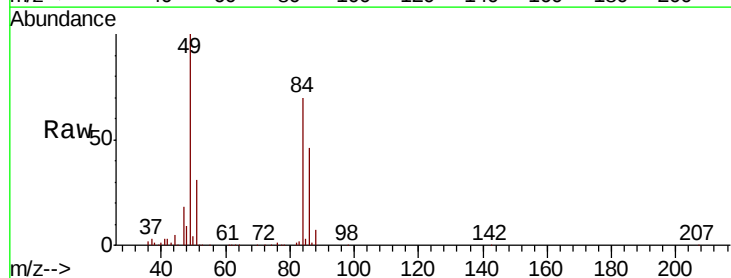
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

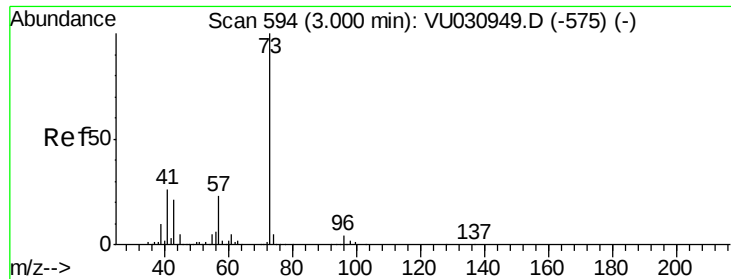
Tot Ion: 43 Resp: 60664
Ion Ratio Lower Upper
43 100
74 19.4 17.1 25.7



#16
Methylene chloride
Concen: 5.155 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

Tgt Ion: 84 Resp: 109904
Ion Ratio Lower Upper
84 100
86 65.2 43.4 80.6
49 141.9 98.5 182.9

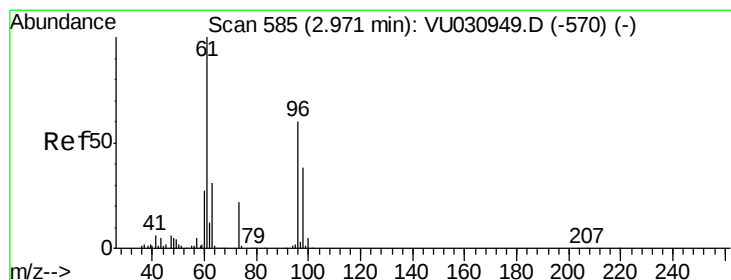
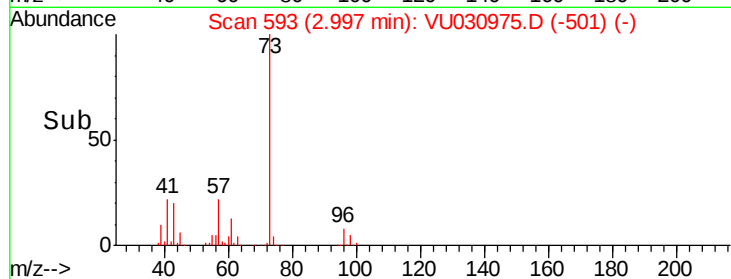
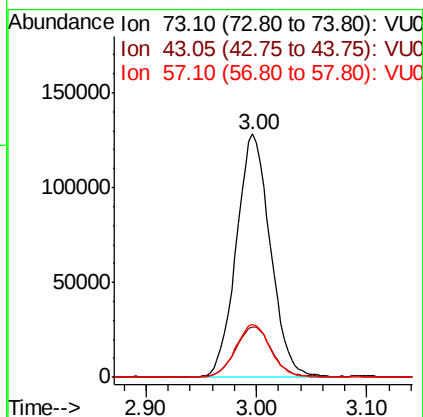
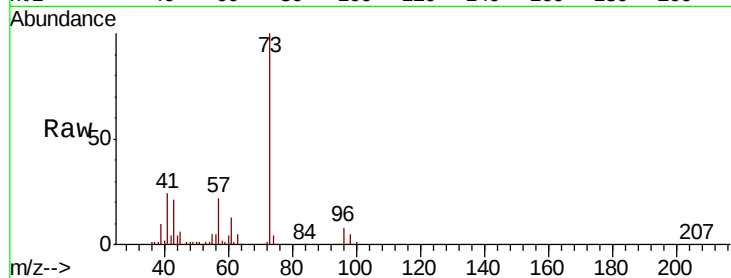




#17
Methvl tert-butvl Ether
Concen: 5.614 ug/L
RT: 3.00 min Scan# 593
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

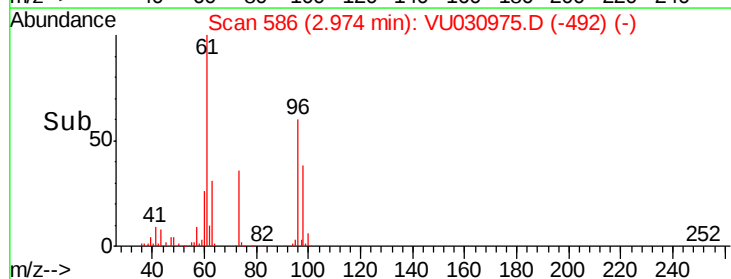
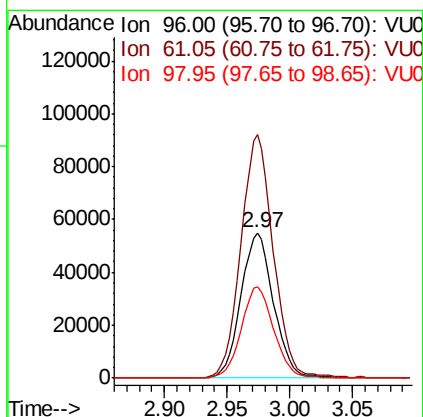
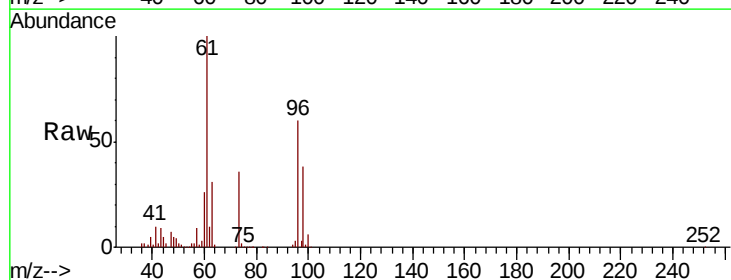
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

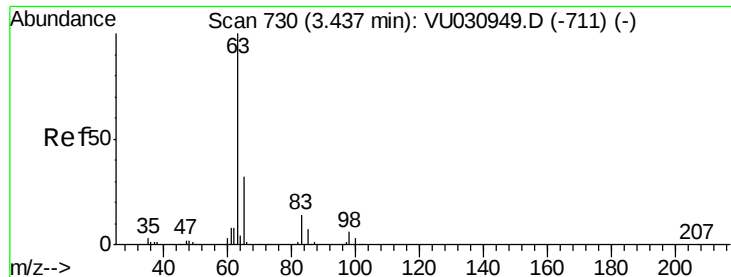
Tot Ion: 73 Resp: 274834
Ion Ratio Lower Upper
73 100
43 21.6 17.0 25.4
57 22.5 19.4 29.2



#18
trans-1,2-Dichloroethene
Concen: 5.158 ug/L
RT: 2.97 min Scan# 586
Delta R.T. 0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

Tgt Ion: 96 Resp: 99576
Ion Ratio Lower Upper
96 100
61 167.7 116.8 216.8
98 63.1 46.8 87.0





#19

1,1-Dichloroethane

Concen: 4.827 ug/L

RT: 3.44 min Scan# 730

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

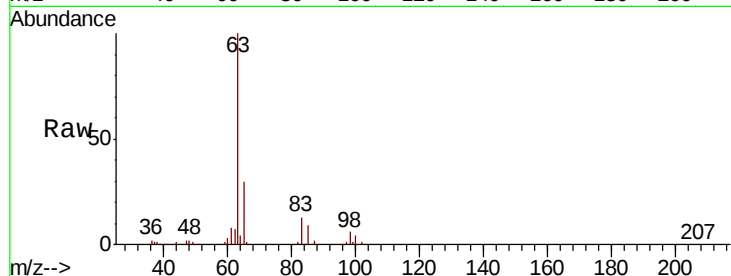
Tot Ion: 63 Resp: 197125

Ion Ratio Lower Upper

63 100

65 30.3 21.6 40.0

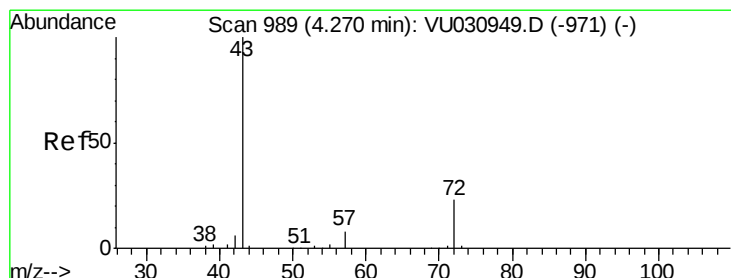
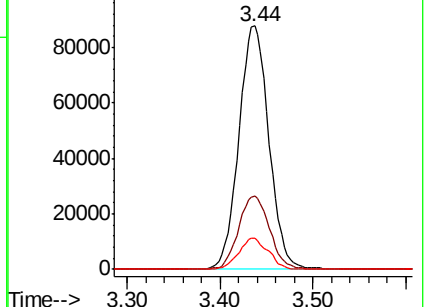
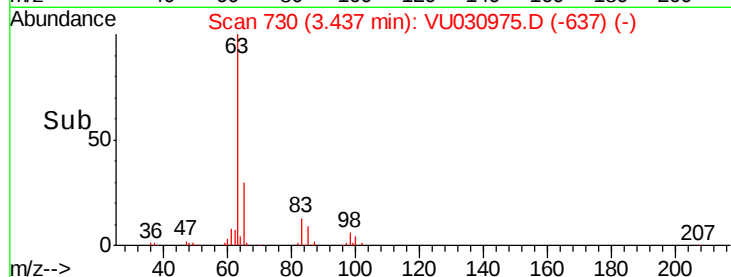
83 12.8 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU030975.D (-637) (-)

Ion 65.10 (64.80 to 65.80): VU030975.D (-637) (-)

Ion 83.05 (82.75 to 83.75): VU030975.D (-637) (-)



#21

2-Butanone

Concen: 54.226 ug/L

RT: 4.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VU030975.D

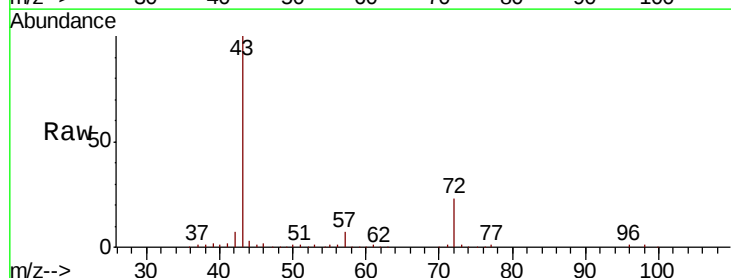
Acq: 09 Apr 2019 23:04

Tgt Ion: 43 Resp: 327884

Ion Ratio Lower Upper

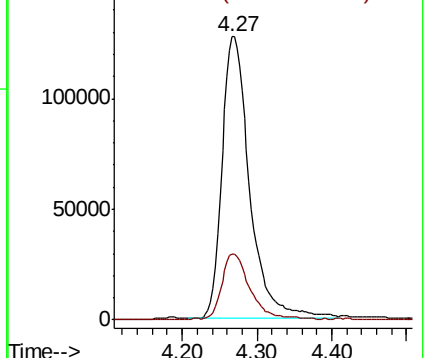
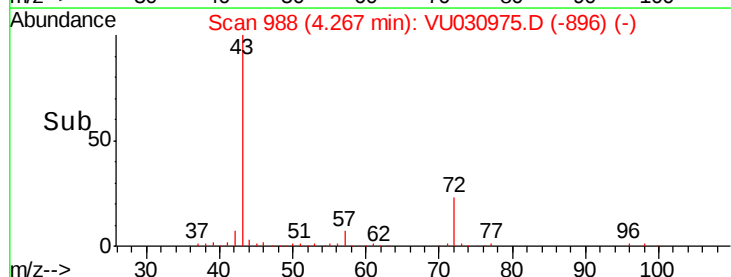
43 100

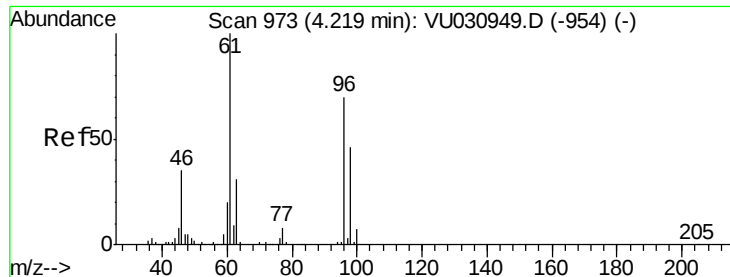
72 22.7 11.2 33.5



Abundance Ion 43.05 (42.75 to 43.75): VU030975.D (-896) (-)

Ion 72.10 (71.80 to 72.80): VU030975.D (-896) (-)



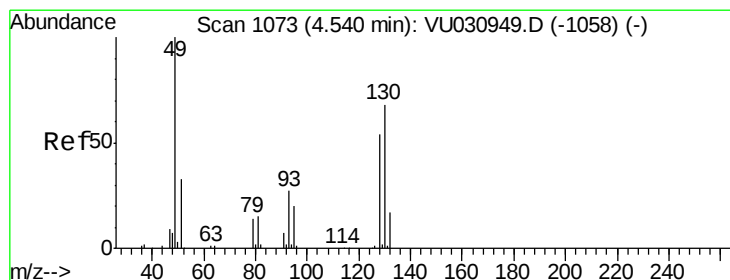
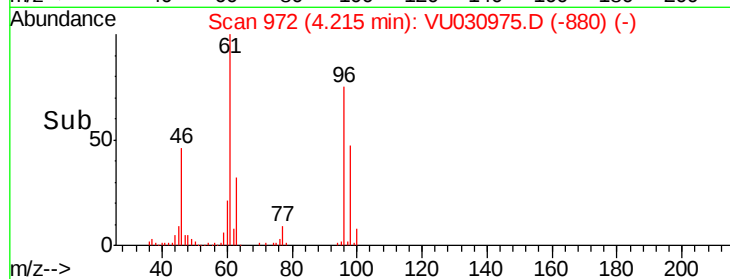
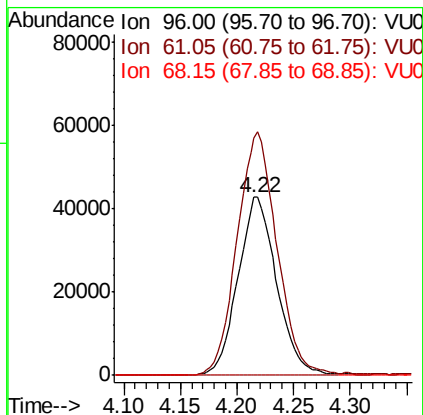
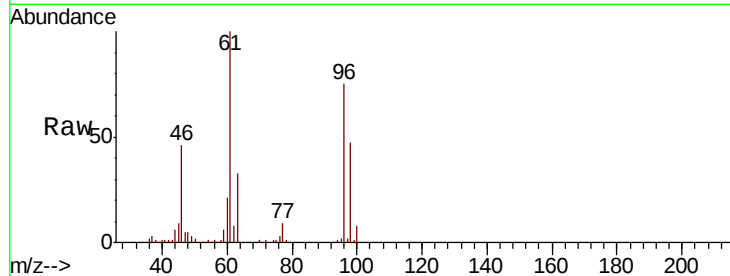


#22

cis-1,2-Dichloroethene
 Concen: 4.946 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

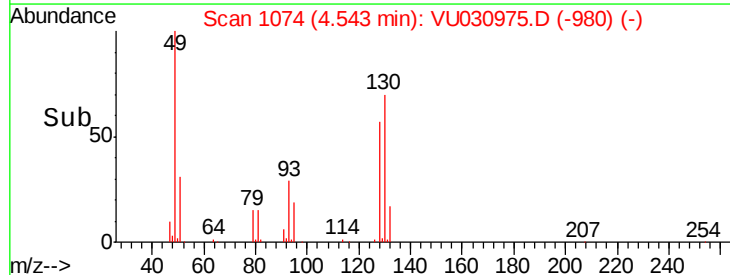
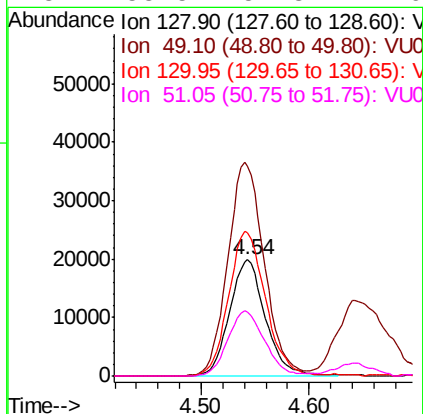
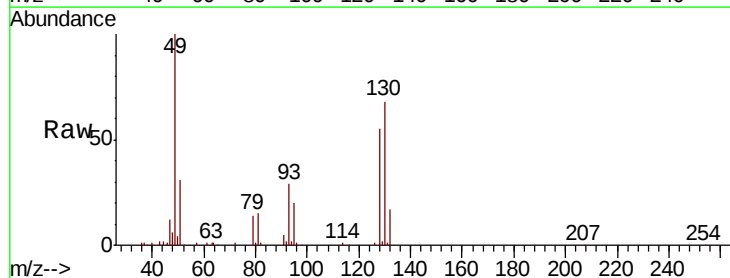
Tot Ion	96	Resp	101829
Ion	Ratio	Lower	Upper
96	100		
61	133.1	98.9	183.7
68	0.0	0.0	0.0

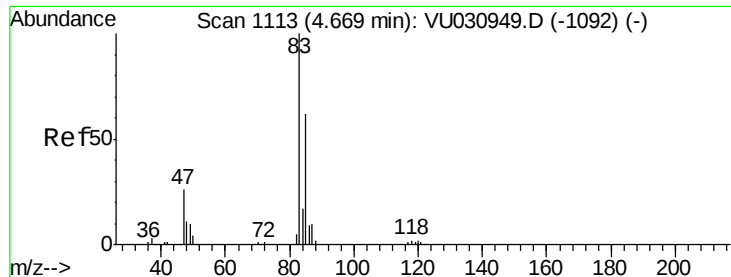


#23

Bromochloromethane
 Concen: 5.589 ug/L
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Tgt Ion	128	Resp	45962
Ion	Ratio	Lower	Upper
128	100		
49	180.8	140.6	261.2
130	123.6	87.3	162.1
51	55.5	51.8	77.6

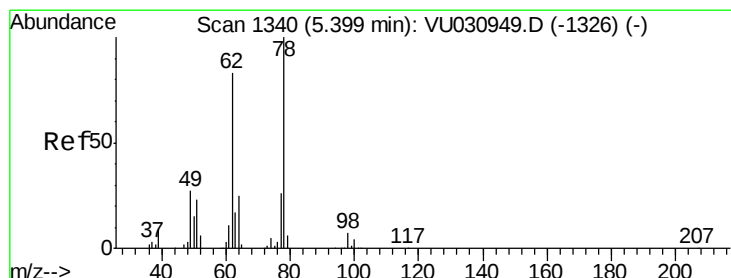
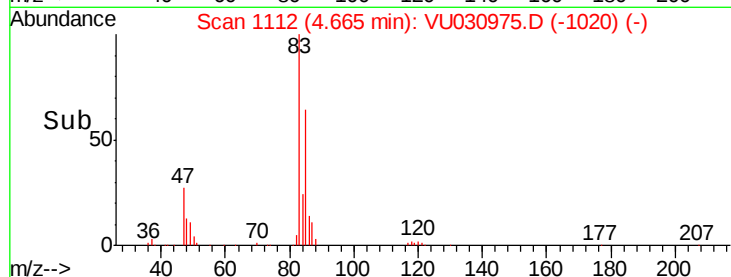
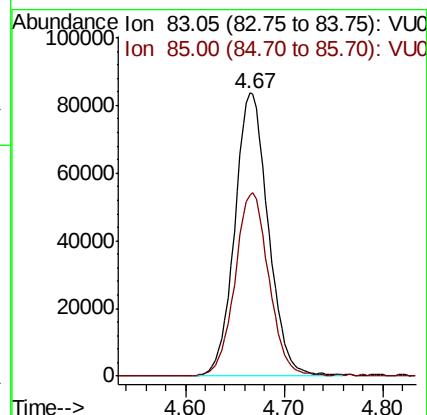
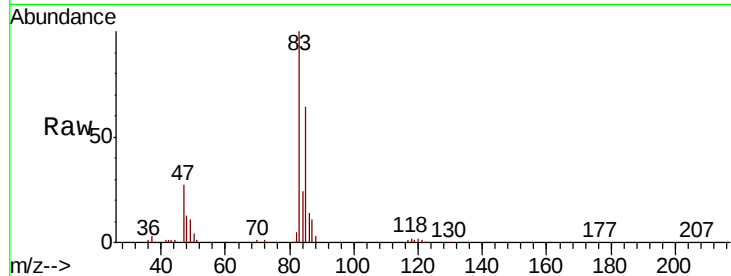




#25
Chloroform
Concen: 5.314 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

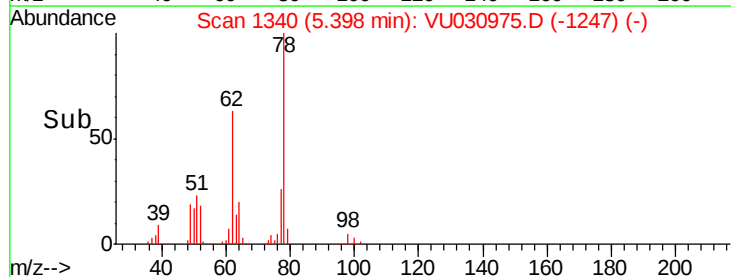
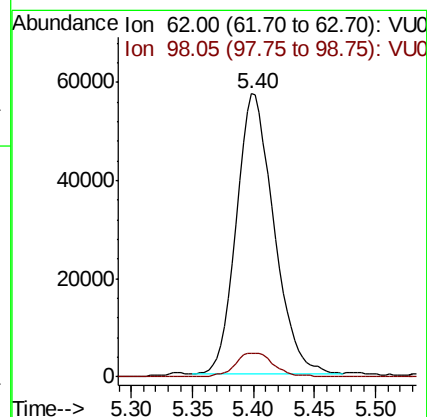
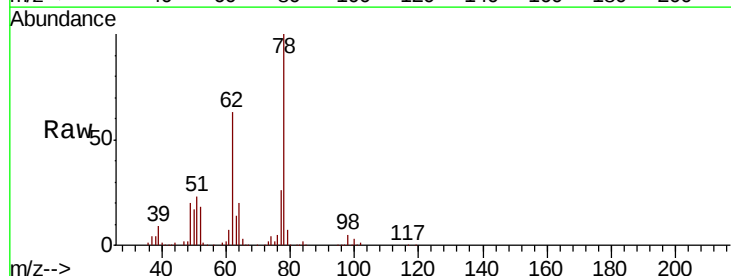
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

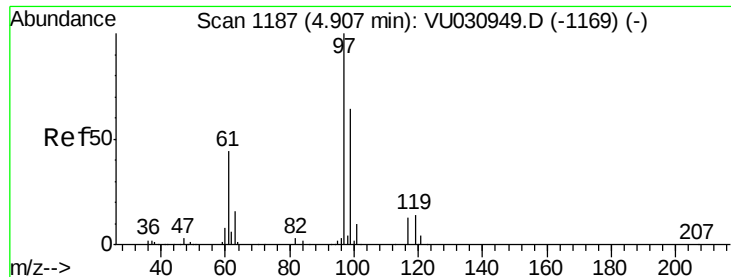
Tot Ion: 83 Resp: 197829
Ion Ratio Lower Upper
83 100
85 64.0 44.2 82.2



#27
1,2-Dichloroethane
Concen: 5.060 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

Tgt Ion: 62 Resp: 122222
Ion Ratio Lower Upper
62 100
98 8.3 7.4 11.2

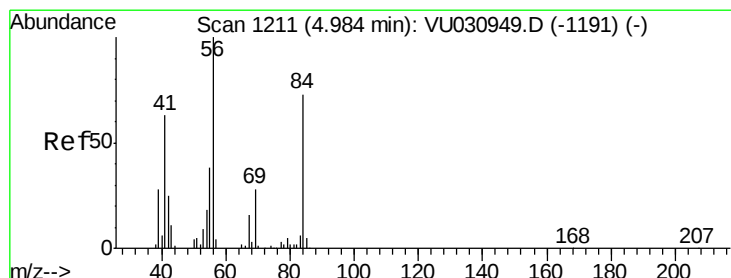
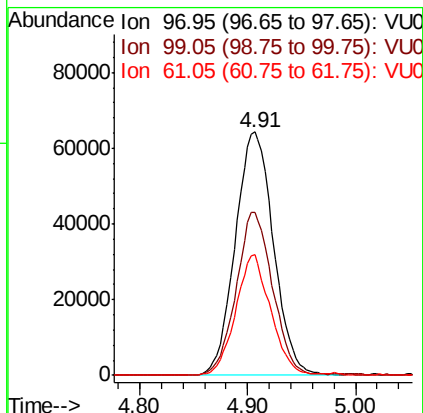
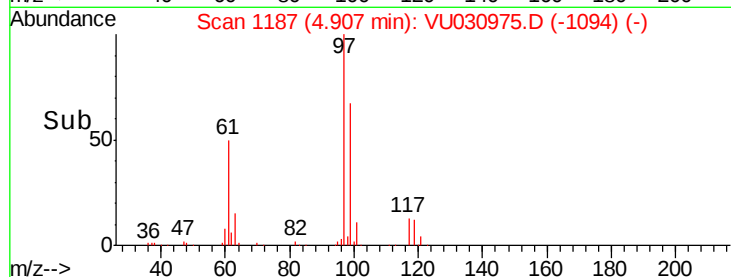
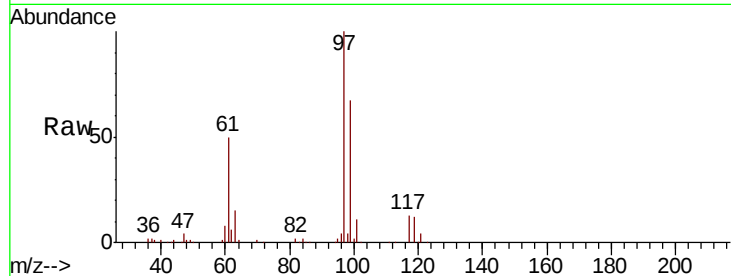




#29
 1,1,1-Trichloroethane
 Concen: 4.991 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

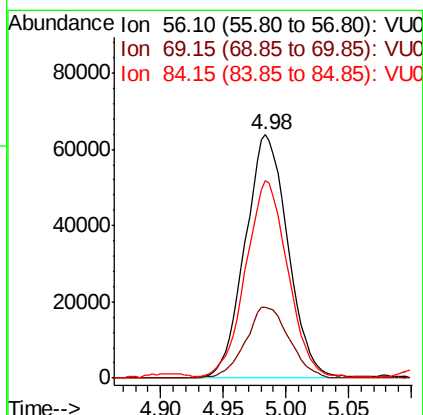
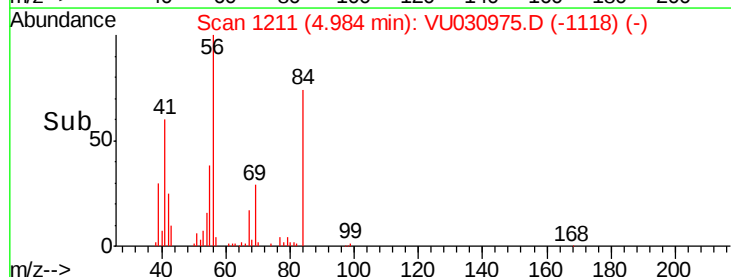
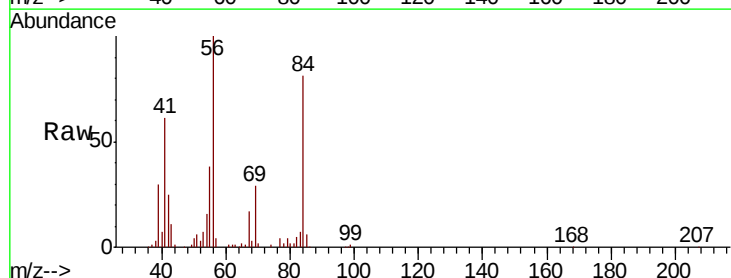
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

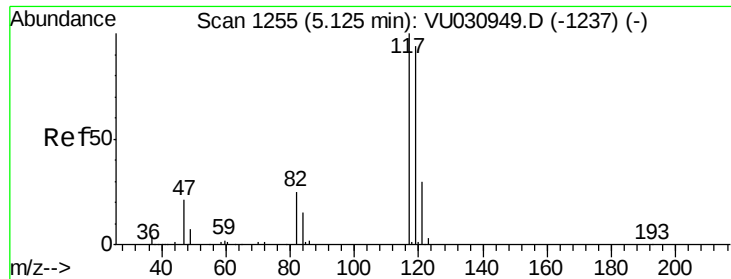
Tot Ion: 97 Resp: 158382
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.8 77.6
 61 45.5 38.1 57.1



#30
 Cyclohexane
 Concen: 3.961 ug/L
 RT: 4.98 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Tgt Ion: 56 Resp: 151755
 Ion Ratio Lower Upper
 56 100
 69 30.0 22.3 33.5
 84 79.1 58.3 87.5





#31

Carbon tetrachloride

Concen: 5.149 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

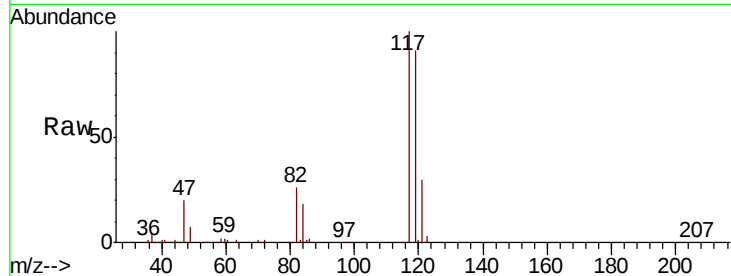
VSTD00515

Tot Ion:117 Resp: 137187

Ion Ratio Lower Upper

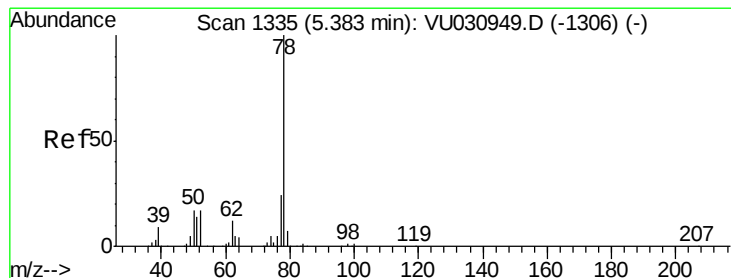
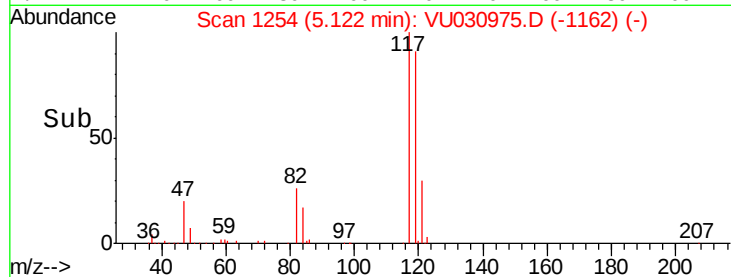
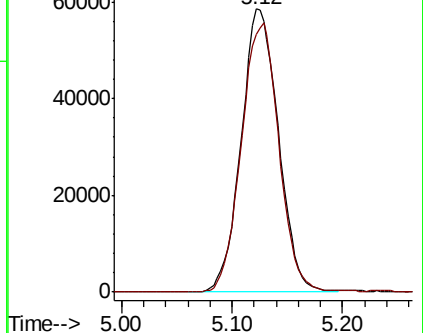
117 100

119 95.6 73.7 110.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.773 ug/L

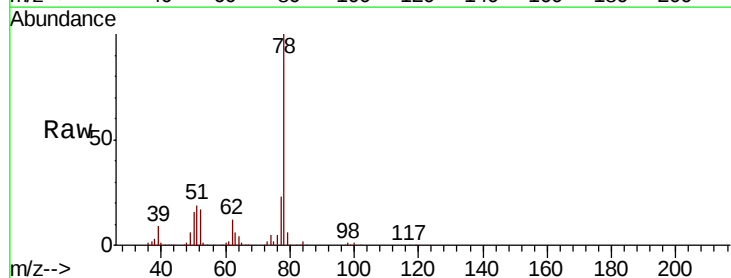
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

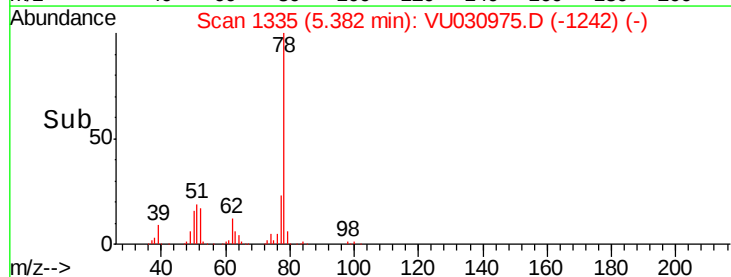
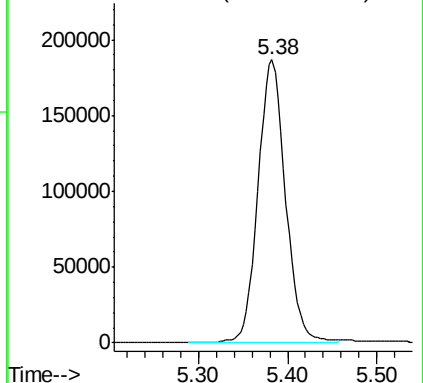
Lab File: VU030975.D

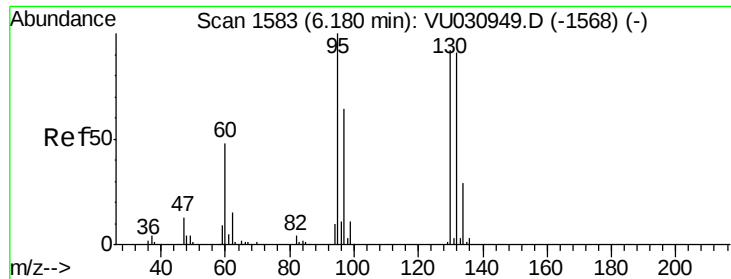
Acq: 09 Apr 2019 23:04

Tgt Ion: 78 Resp: 402186



Abundance Ion 78.10 (77.80 to 78.80): VU0

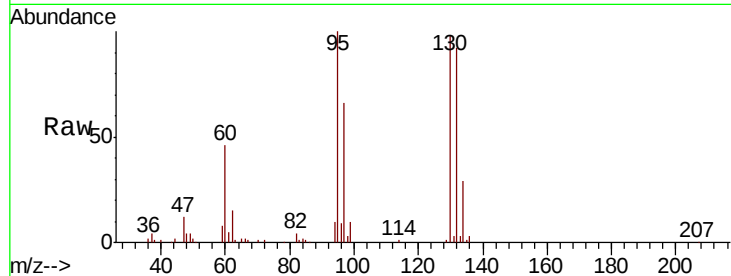




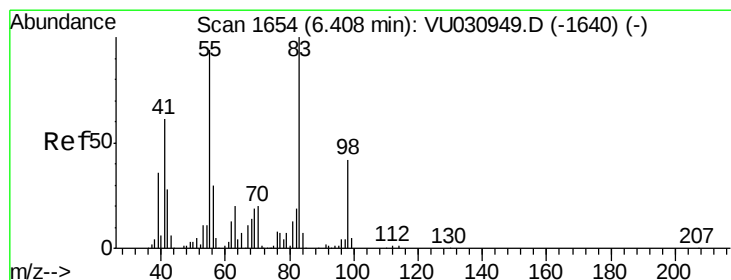
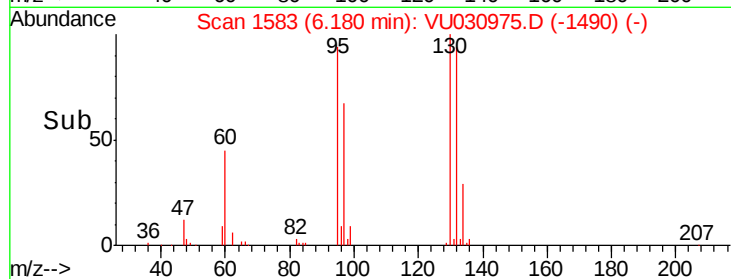
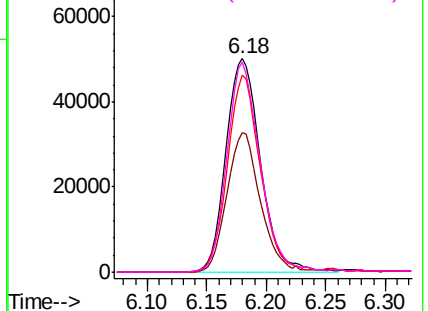
#34
 Trichloroethene
 Concen: 4.800 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion:	95	Resp:	101251
Ion	Ratio	Lower	Upper
95	100		
97	65.6	43.5	80.9
132	92.1	60.7	112.7
130	98.2	65.1	120.9

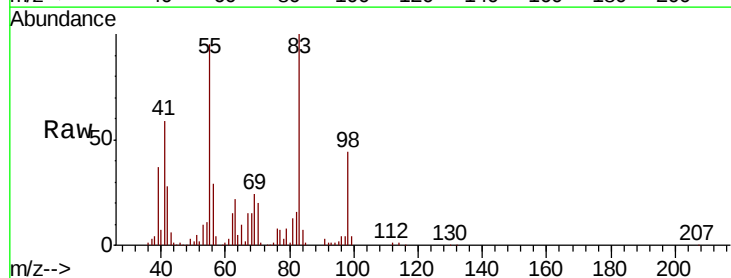


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

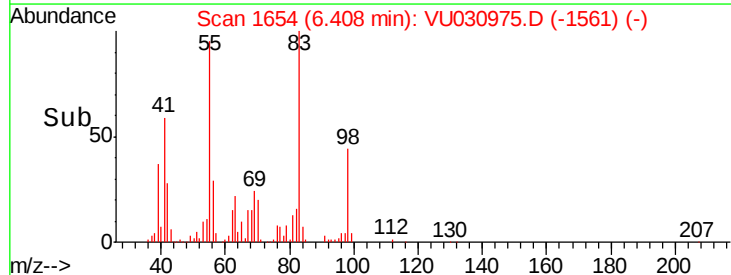
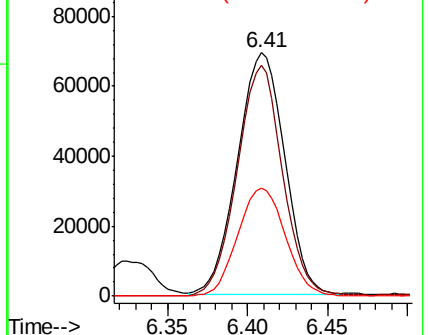


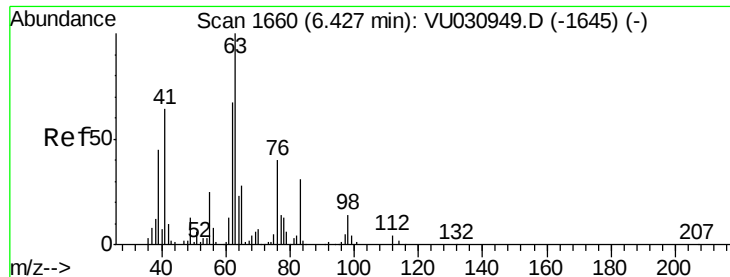
#35
 Methylcyclohexane
 Concen: 4.150 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Tgt Ion:	83	Resp:	139728
Ion	Ratio	Lower	Upper
83	100		
55	91.9	72.6	108.8
98	45.1	35.0	52.6



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.500 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

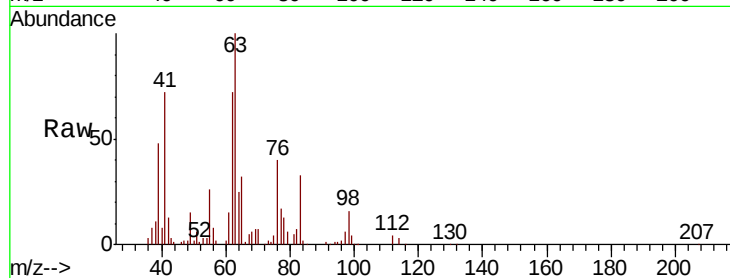
VSTD00515

Tot Ion: 63 Resp: 104360

Ion Ratio Lower Upper

63 100

112 2.3 2.8 4.2#



Abundance Ion 63.10 (62.80 to 63.80): VU030949.D (-1645) (-)

Ion 112.10 (111.80 to 112.80): VU030949.D (-1645) (-)

6.43

60000

50000

40000

30000

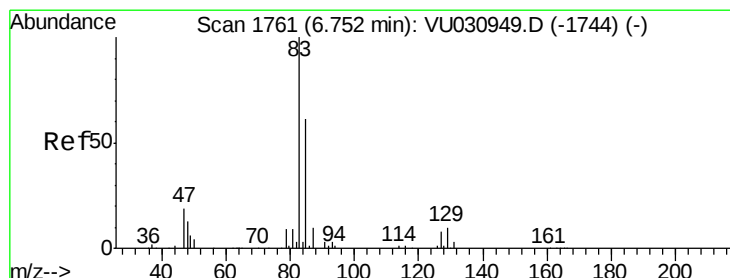
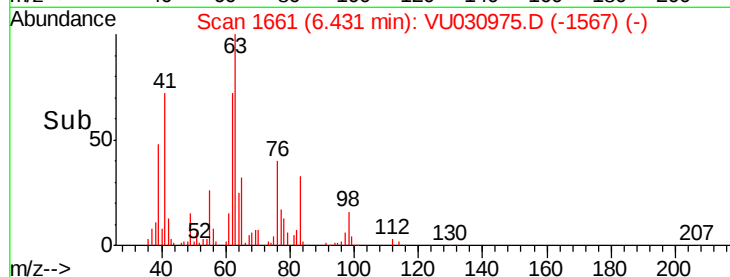
20000

10000

0

6.35 6.40 6.45 6.50

Time-->



#38

Bromodichloromethane

Concen: 4.899 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

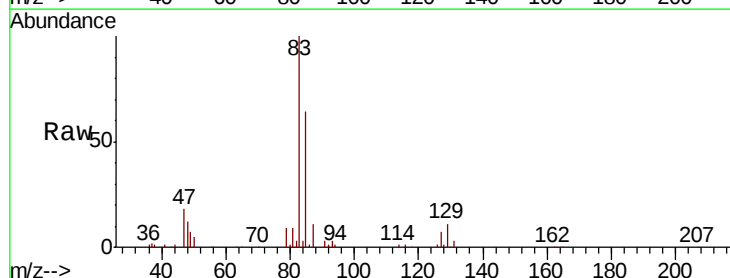
Tgt Ion: 83 Resp: 132660

Ion Ratio Lower Upper

83 100

85 64.0 45.1 83.9

127 7.0 6.5 9.7



Abundance Ion 82.95 (82.65 to 83.65): VU030949.D (-1744) (-)

Ion 85.00 (84.70 to 85.70): VU030949.D (-1744) (-)

Ion 126.90 (126.60 to 127.60): VU030949.D (-1744) (-)

6.75

80000

60000

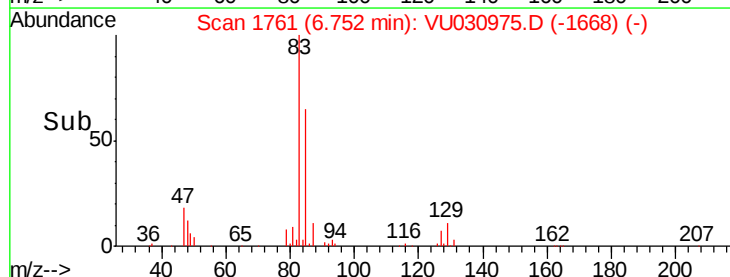
40000

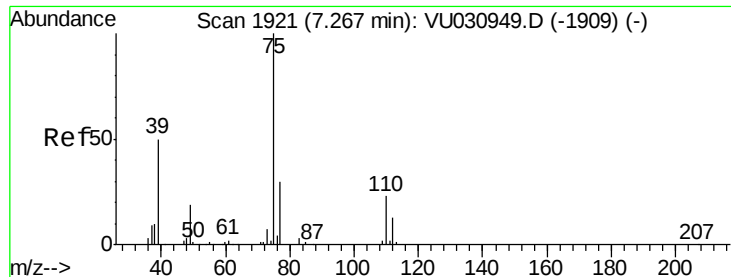
20000

0

6.65 6.70 6.75 6.80 6.85

Time-->

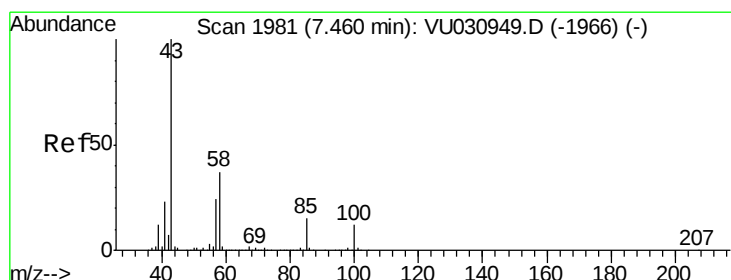
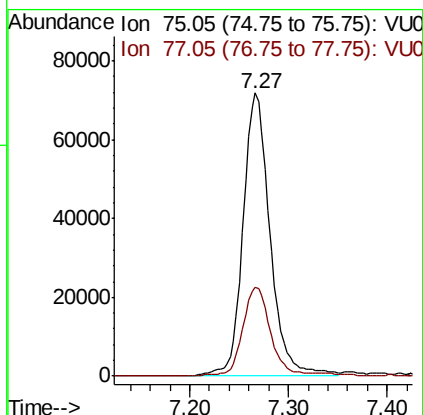
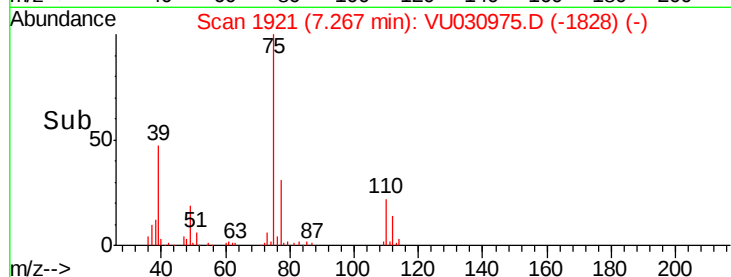
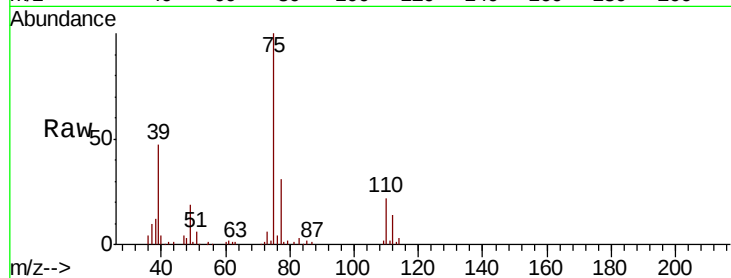




#39
 cis-1,3-Dichloropropene
 Concen: 4.393 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

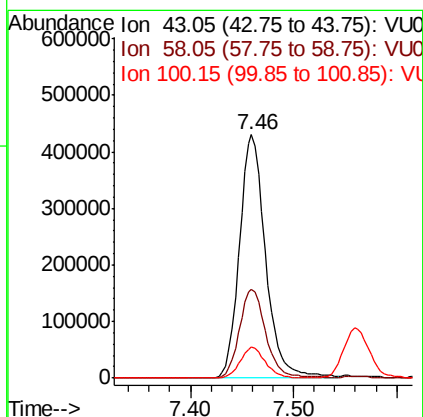
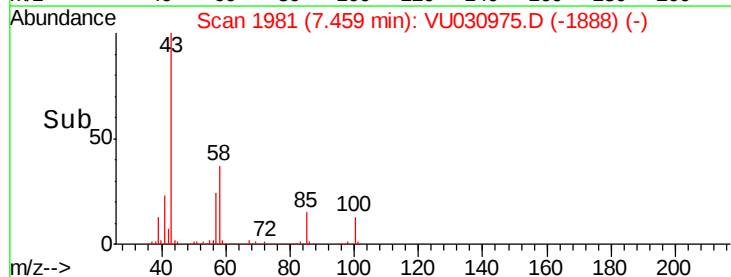
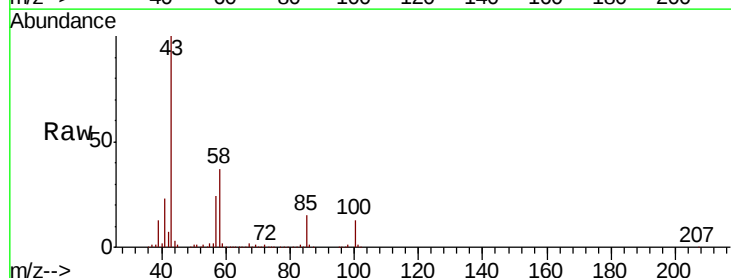
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

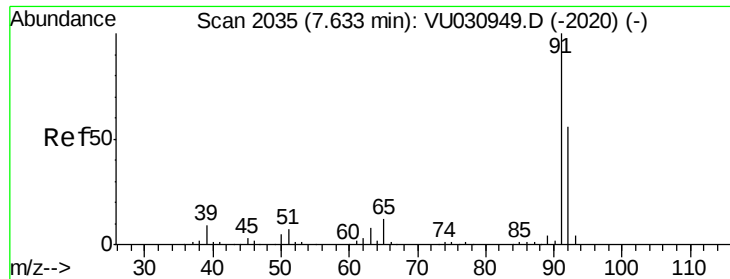
Tot Ion: 75 Resp: 136254
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 52.584 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Tgt Ion: 43 Resp: 760731
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.4 44.2
 100 12.5 9.2 13.8





#42

Toluene

Concen: 4.984 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

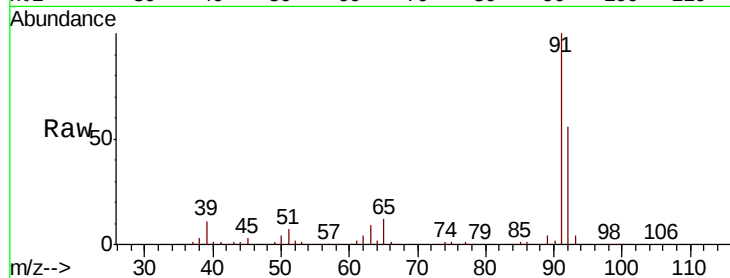
VSTD00515

Tot Ion: 91 Resp: 421178

Ion Ratio Lower Upper

91 100

92 56.0 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.63

250000

200000

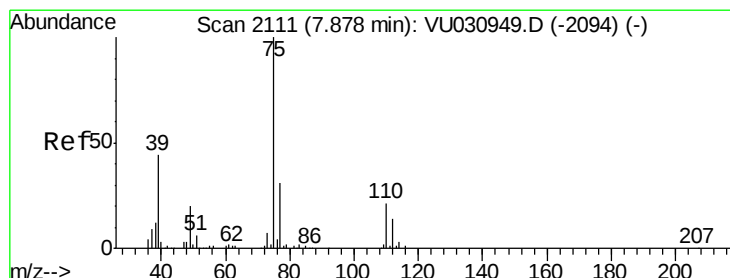
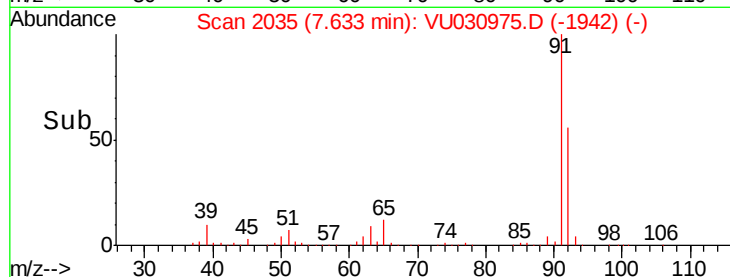
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.861 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU030975.D

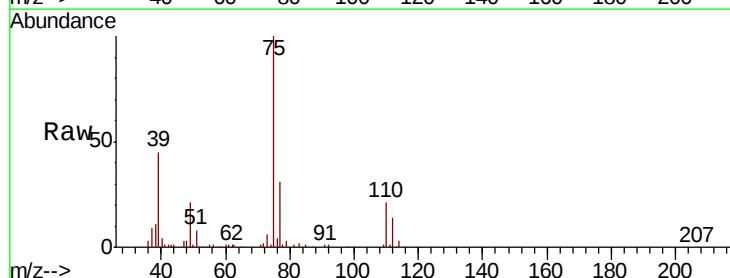
Acq: 09 Apr 2019 23:04

Tgt Ion: 75 Resp: 116681

Ion Ratio Lower Upper

75 100

77 30.6 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

7.88

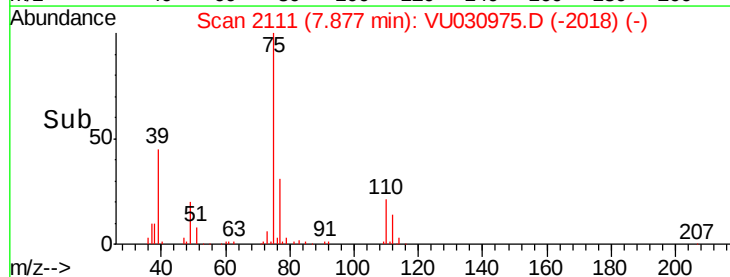
60000

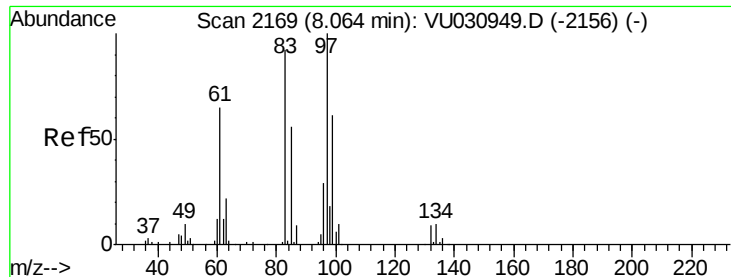
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.230 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

Tot Ion: 97 Resp: 72319

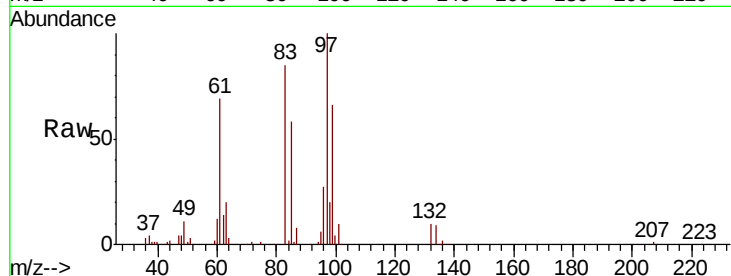
Ion Ratio Lower Upper

97 100

99 66.4 45.3 84.1

83 84.7 66.5 123.5

85 58.3 41.2 76.4

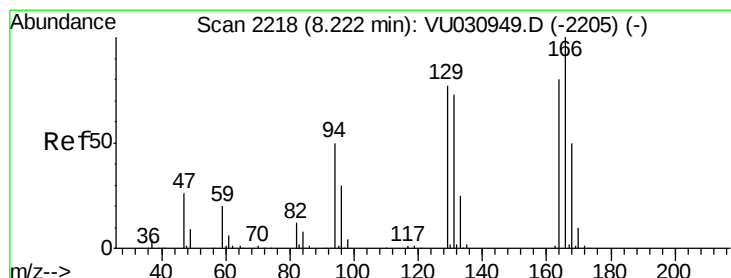
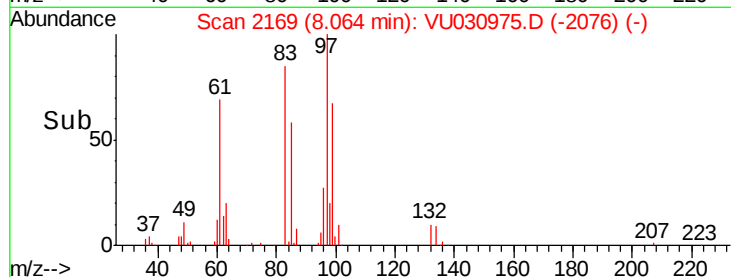
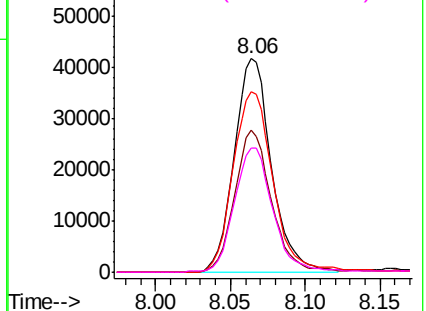


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 5.086 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Tgt Ion:164 Resp: 75256

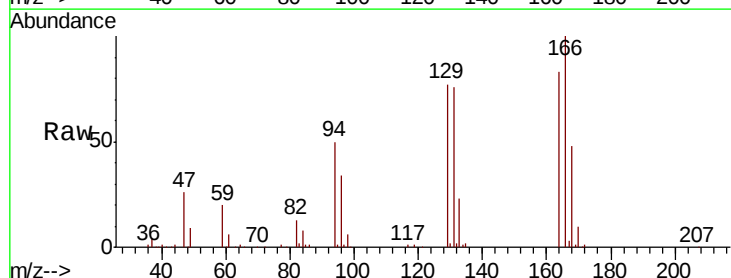
Ion Ratio Lower Upper

164 100

129 92.8 70.1 130.1

131 92.3 67.8 125.8

166 120.7 87.9 163.3

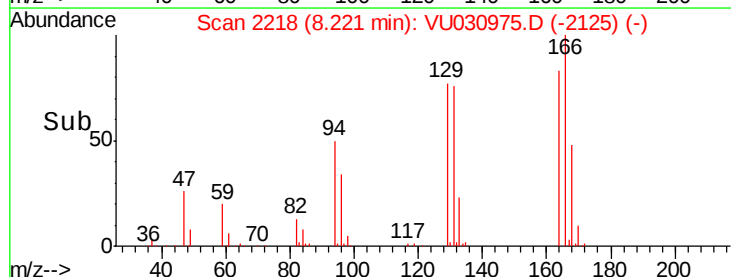
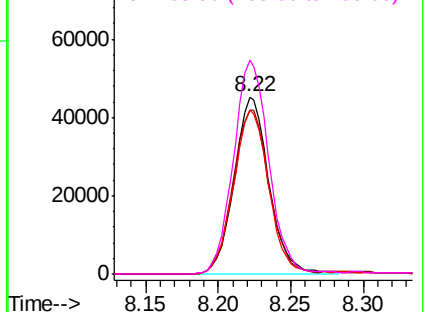


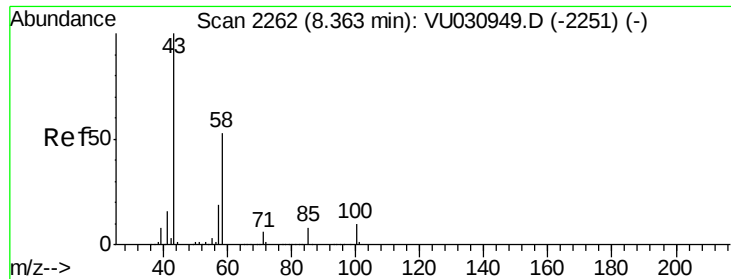
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

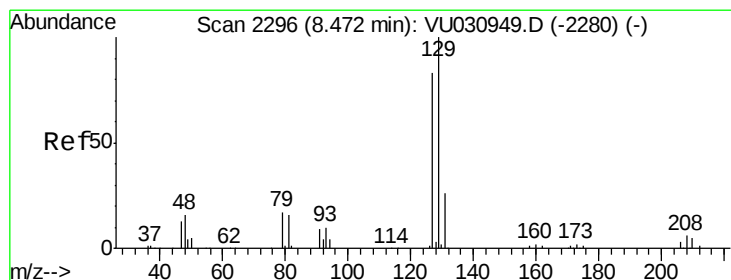
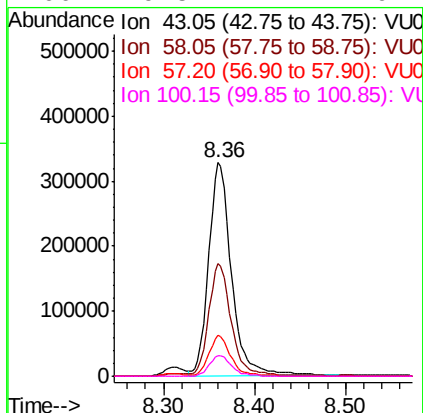
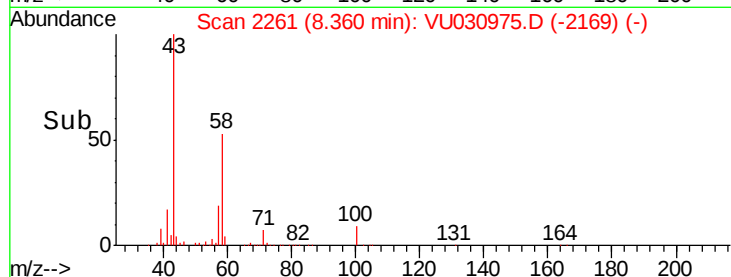
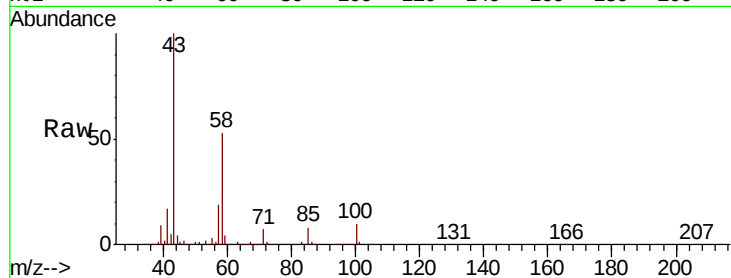




#48
2-Hexanone
Concen: 56.870 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

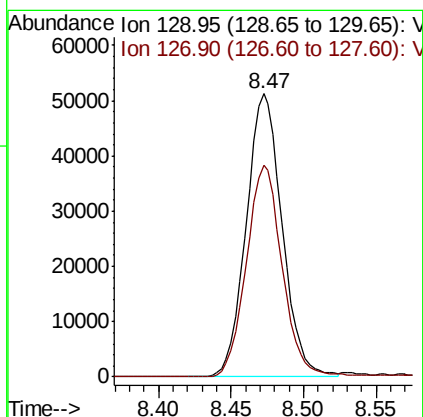
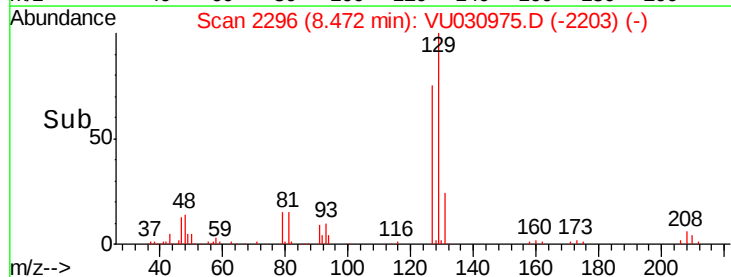
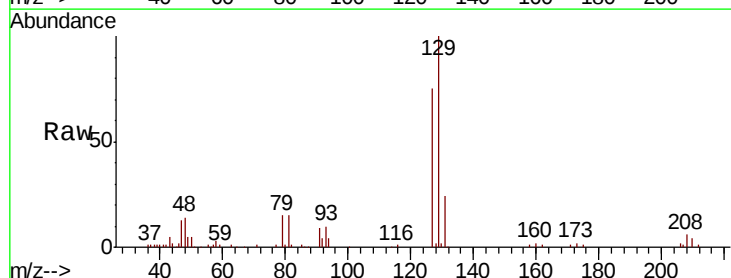
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

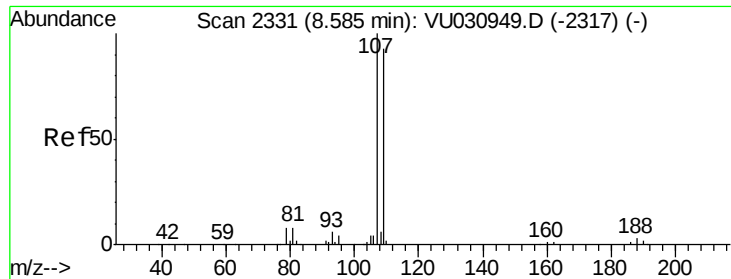
Tot Ion: 43 Resp: 570066
Ion Ratio Lower Upper
43 100
58 51.0 42.5 63.7
57 18.4 13.9 20.9
100 9.5 7.1 10.7



#49
Dibromochloromethane
Concen: 5.357 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

Tgt Ion: 129 Resp: 88590
Ion Ratio Lower Upper
129 100
127 74.6 51.1 94.9

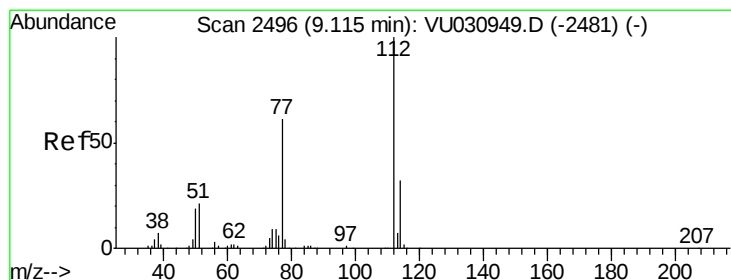
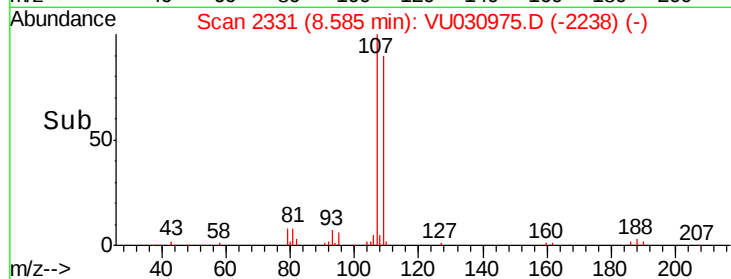
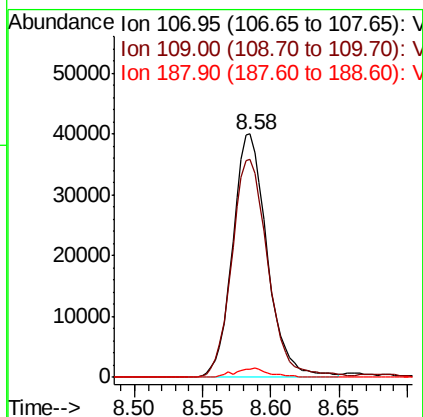
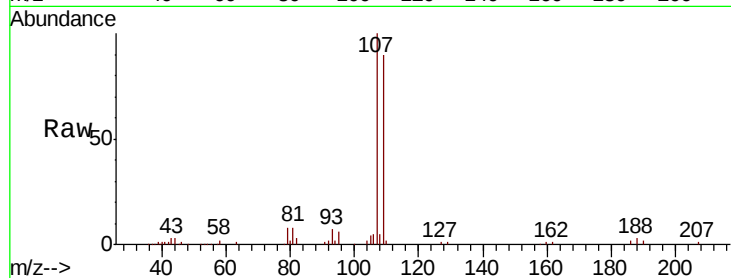




#50
 1,2-Dibromoethane
 Concen: 5.475 ug/L
 RT: 8.58 min Scan# 2331
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

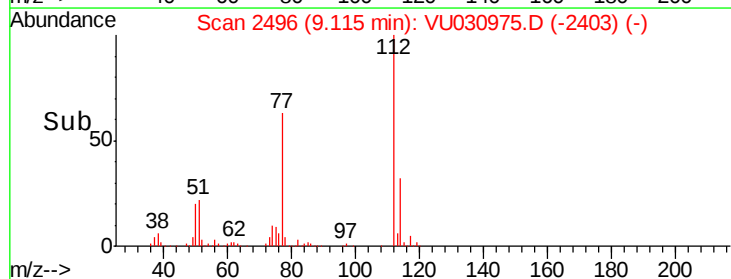
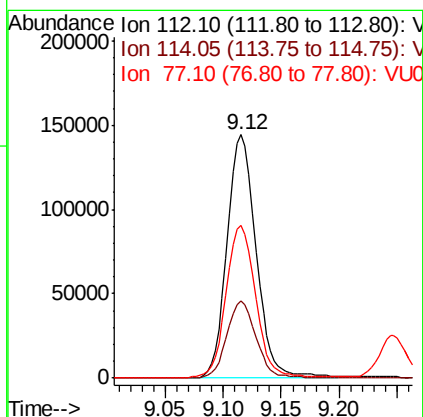
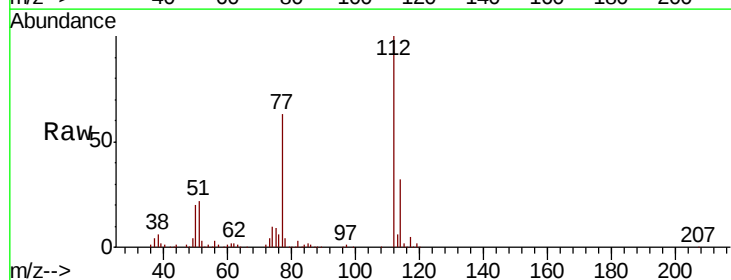
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

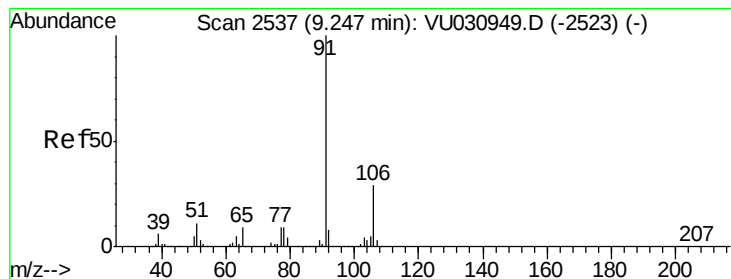
Tot Ion:107 Resp: 70577
 Ion Ratio Lower Upper
 107 100
 109 89.5 65.6 121.8
 188 3.3 2.9 4.3



#51
 Chlorobenzene
 Concen: 4.819 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Tgt Ion:112 Resp: 251122
 Ion Ratio Lower Upper
 112 100
 114 31.7 22.3 41.5
 77 62.8 51.0 76.6





#52

Ethylbenzene

Concen: 4.555 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

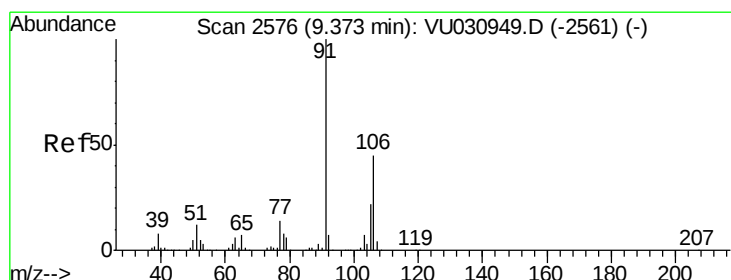
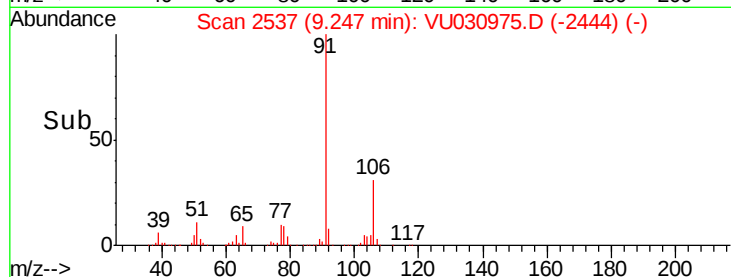
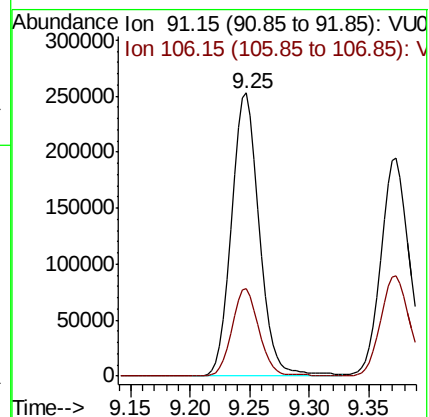
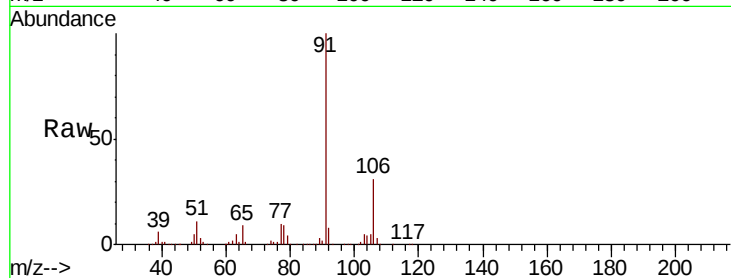
VSTD00515

Tot Ion: 91 Resp: 410622

Ion Ratio Lower Upper

91 100

106 30.9 20.2 37.4



#53

m,p-Xylene

Concen: 4.819 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU030975.D

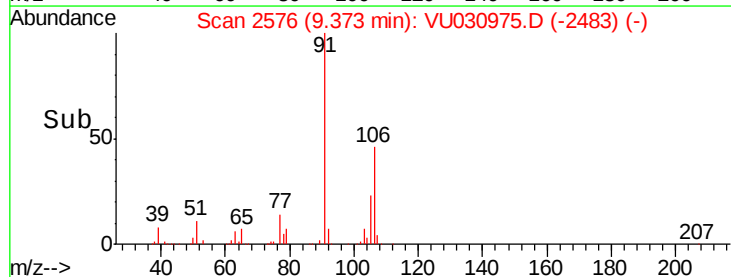
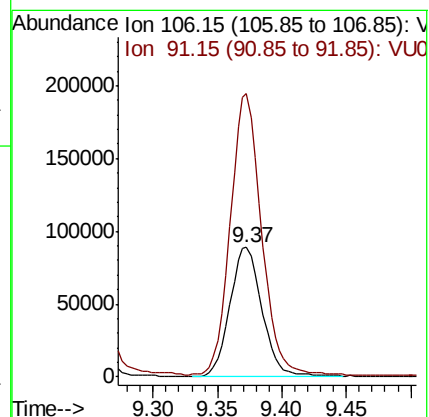
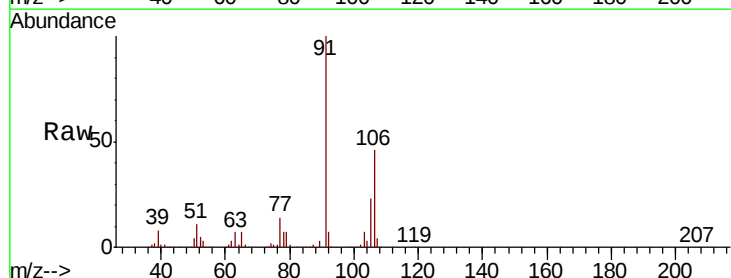
Acq: 09 Apr 2019 23:04

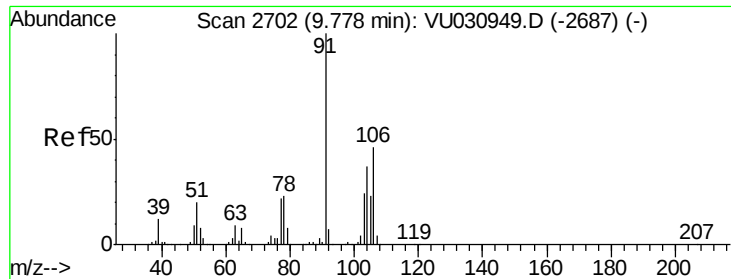
Tgt Ion: 106 Resp: 151738

Ion Ratio Lower Upper

106 100

91 218.2 147.4 273.8

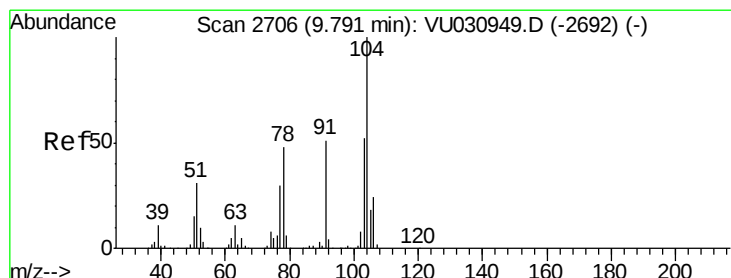
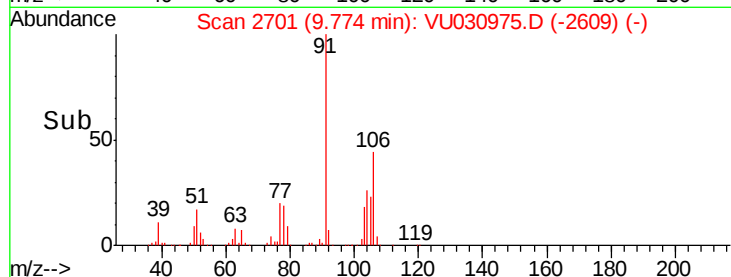
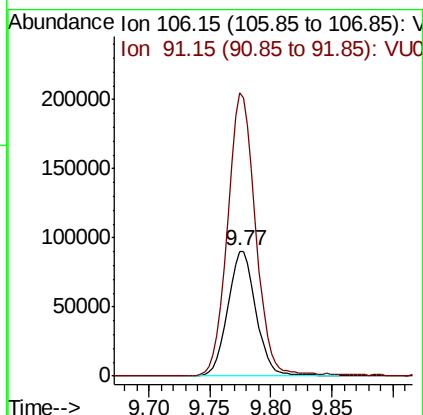
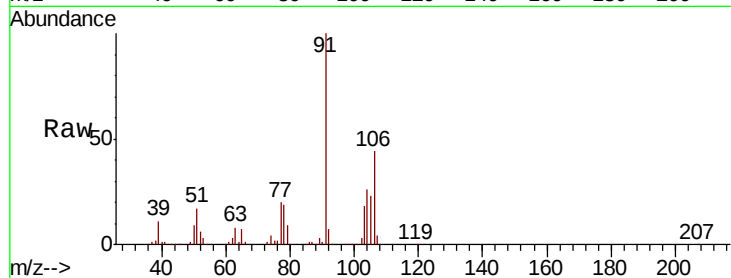




#54
o-Xylene
Concen: 4.757 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

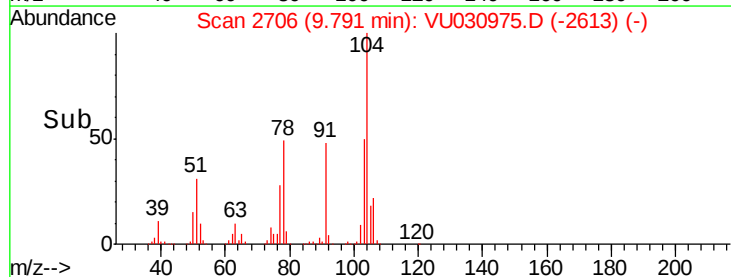
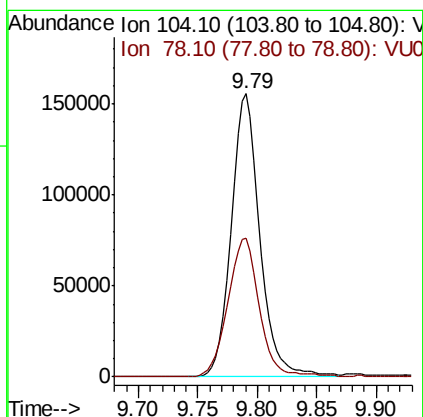
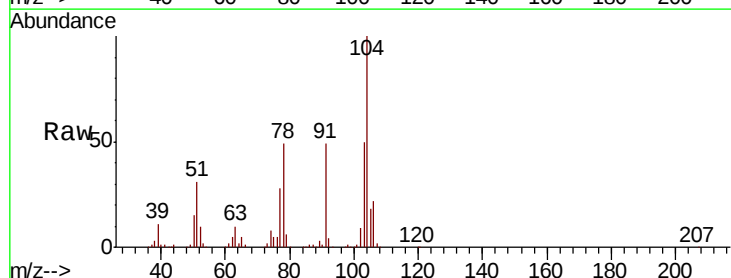
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

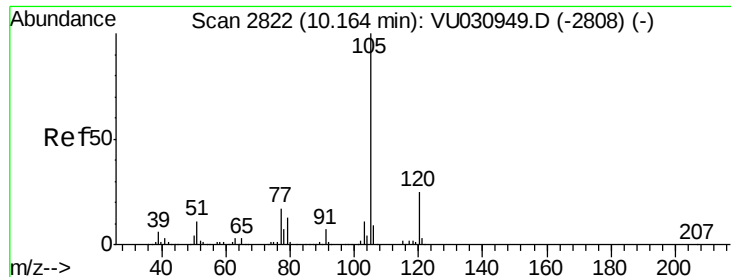
Tot Ion:106 Resp: 146863
Ion Ratio Lower Upper
106 100
91 227.1 161.3 299.7



#55
Styrene
Concen: 4.974 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VU030975.D
Acq: 09 Apr 2019 23:04

Tgt Ion:104 Resp: 259085
Ion Ratio Lower Upper
104 100
78 48.9 34.4 63.8





#56

Isopropylbenzene

Concen: 4.702 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

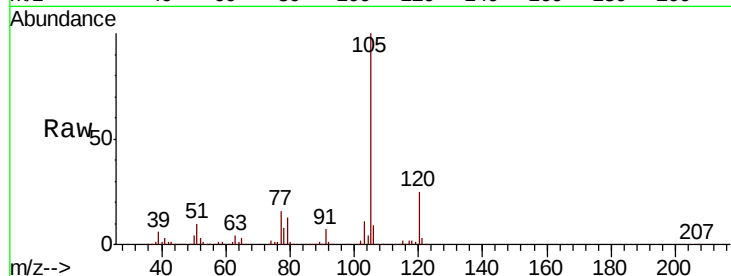
Tot Ion:105 Resp: 387854

Ion Ratio Lower Upper

105 100

120 25.3 20.5 30.7

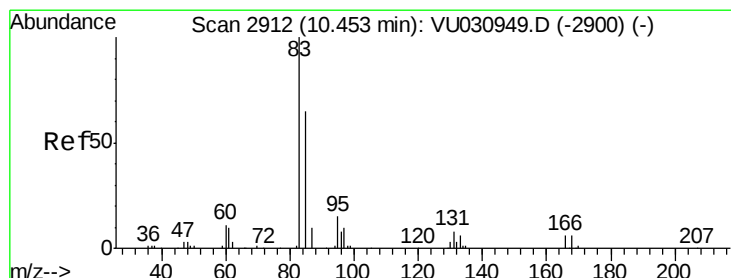
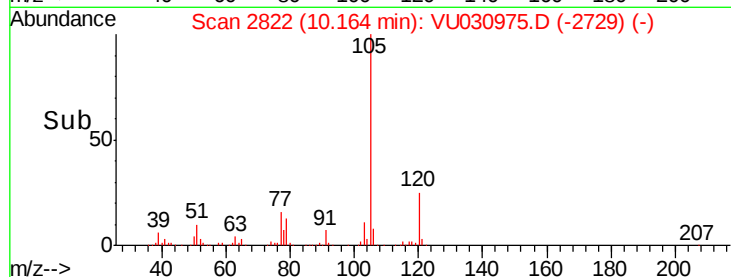
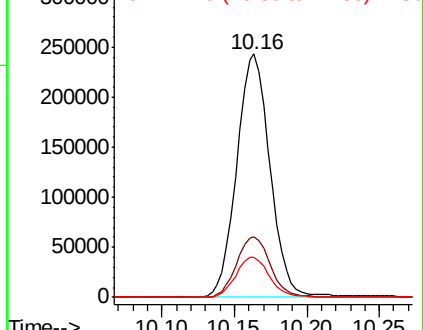
77 16.4 13.8 20.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.256 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

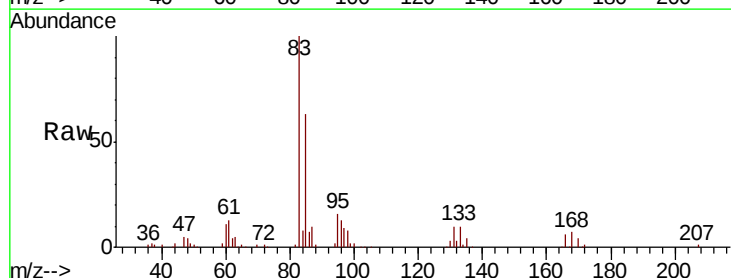
Tgt Ion: 83 Resp: 96628

Ion Ratio Lower Upper

83 100

85 62.5 44.4 82.5

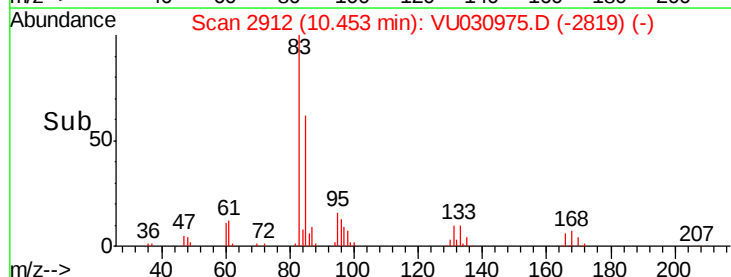
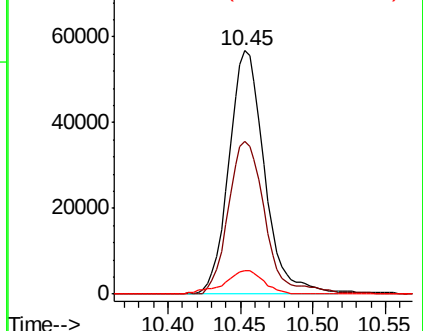
131 9.8 7.4 11.2

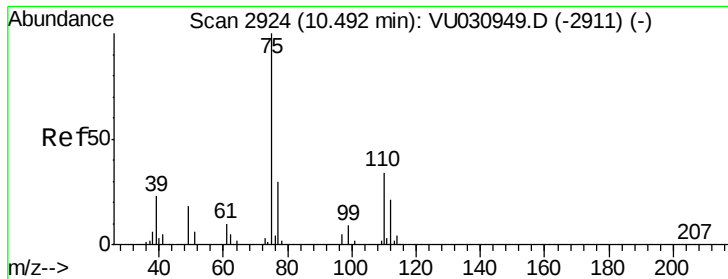


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

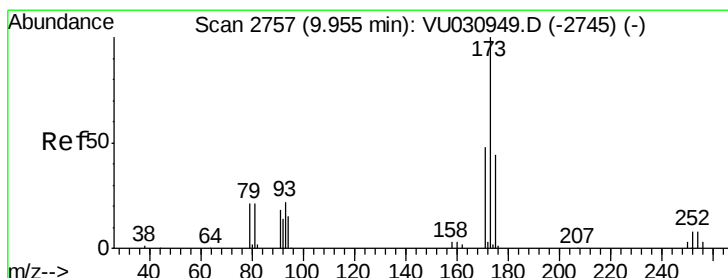
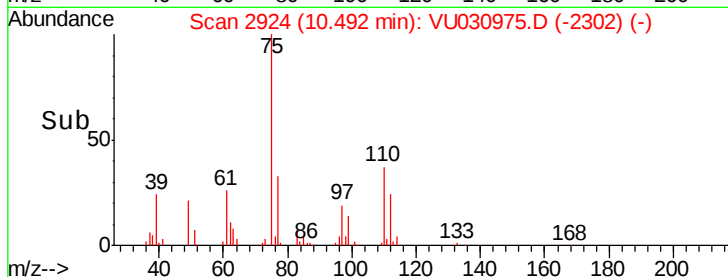
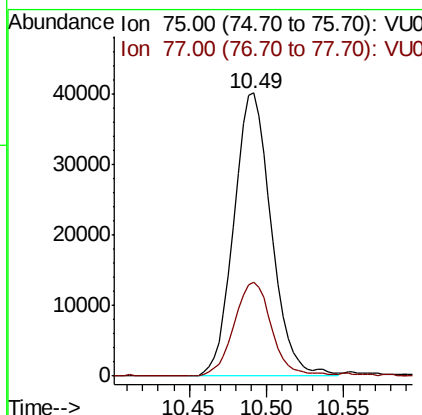
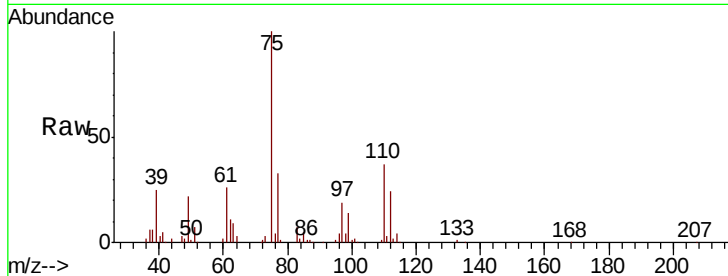




#59
 1,2,3-Trichloropropane
 Concen: 5.224 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

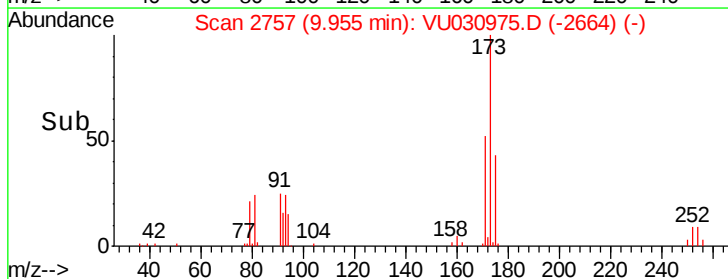
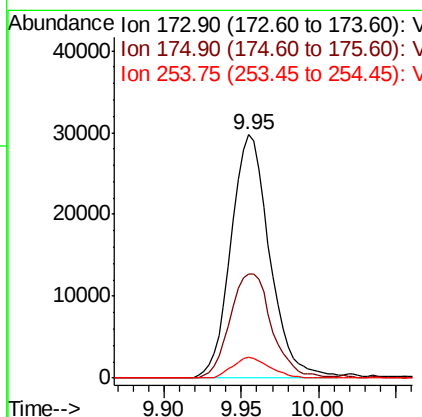
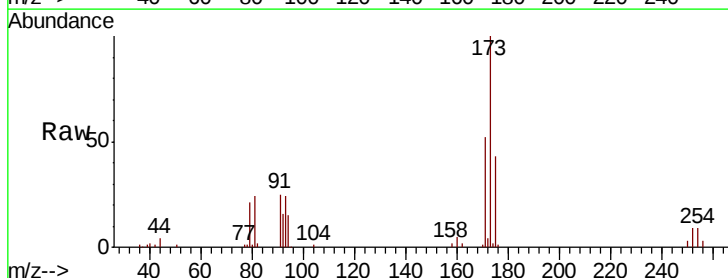
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

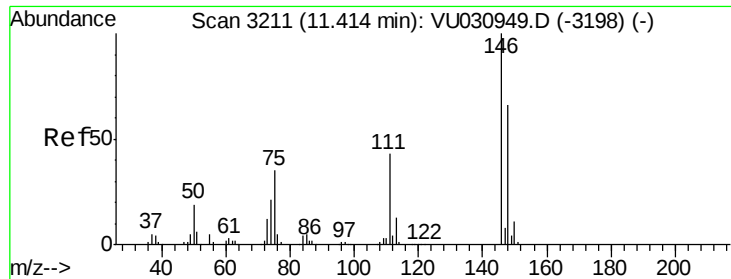
Tot Ion: 75 Resp: 67695
 Ion Ratio Lower Upper
 75 100
 77 33.4 25.6 38.4



#61
 Bromoform
 Concen: 6.036 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Tgt Ion: 173 Resp: 51760
 Ion Ratio Lower Upper
 173 100
 175 46.1 38.6 58.0
 254 8.0 7.0 10.4





#62

1,3-Dichlorobenzene

Concen: 4.865 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

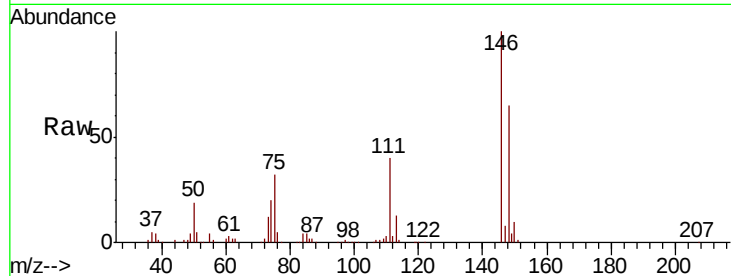
Tot Ion:146 Resp: 173799

Ion Ratio Lower Upper

146 100

111 40.1 28.9 53.7

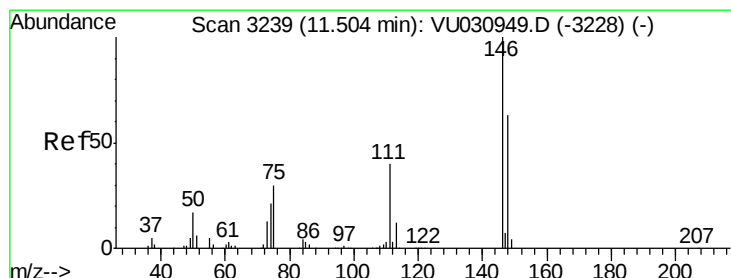
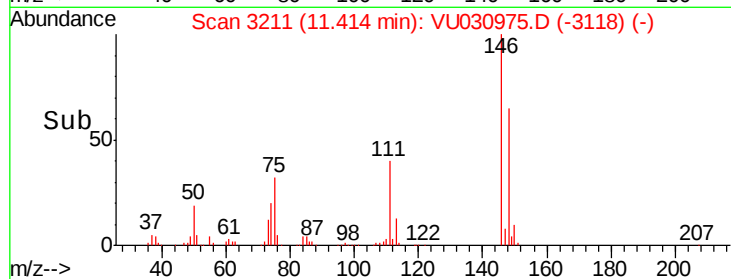
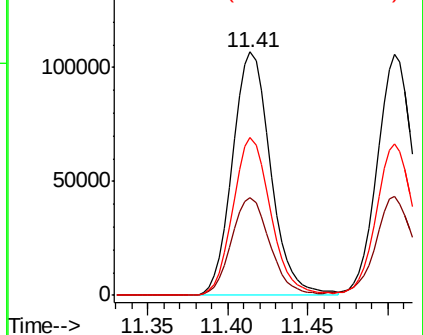
148 65.0 44.4 82.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.648 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

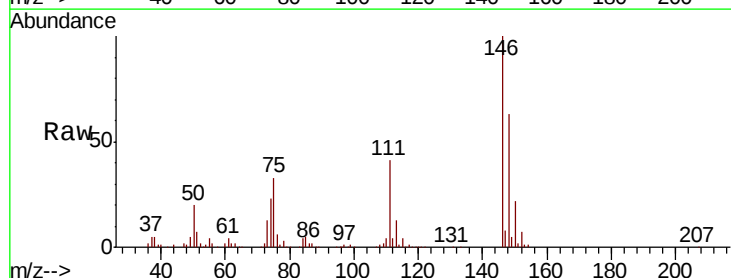
Tgt Ion:146 Resp: 174081

Ion Ratio Lower Upper

146 100

111 40.8 27.9 51.9

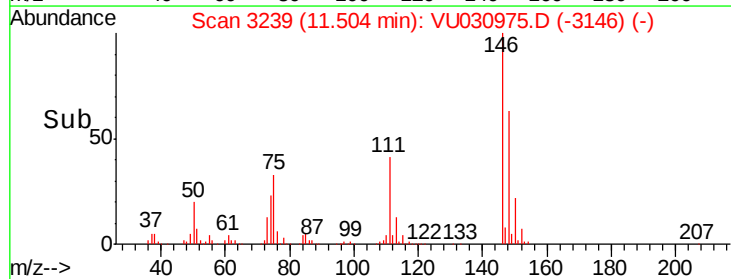
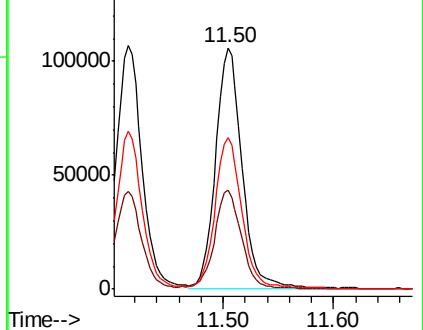
148 62.9 45.4 84.4

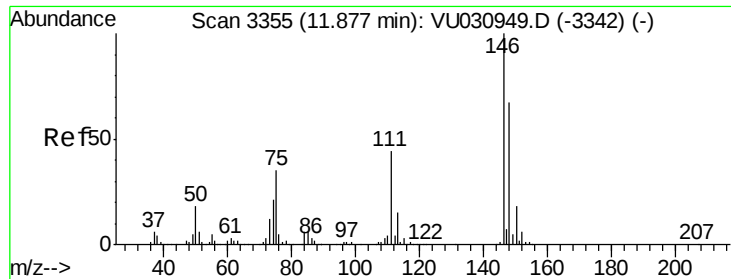


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.945 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

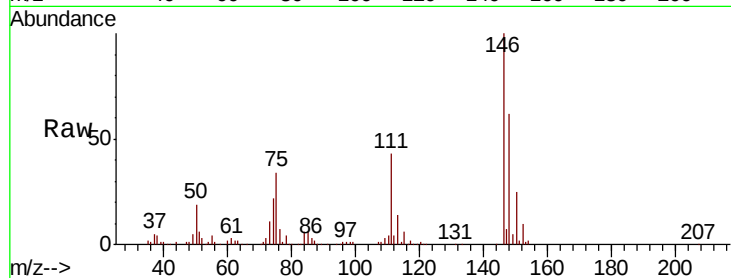
Tot Ion:146 Resp: 171900

Ion Ratio Lower Upper

146 100

111 43.1 37.1 55.7

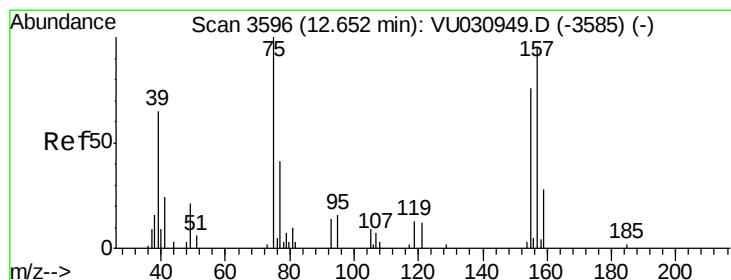
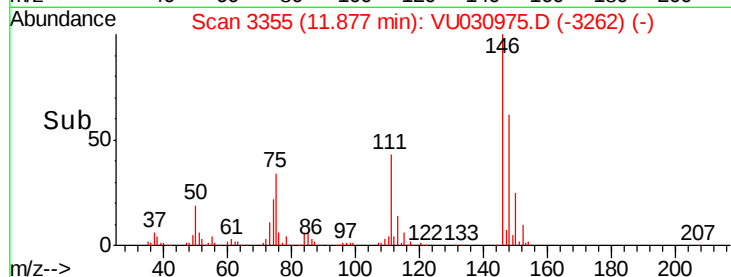
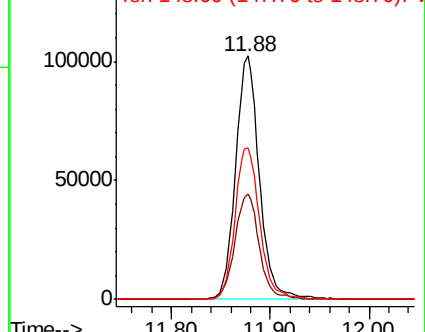
148 62.1 51.8 77.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.749 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

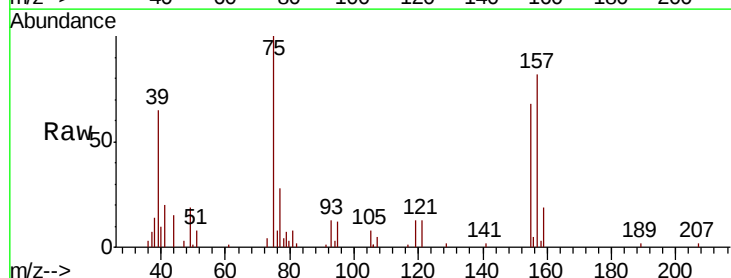
Tgt Ion: 75 Resp: 15464

Ion Ratio Lower Upper

75 100

155 68.4 57.7 86.5

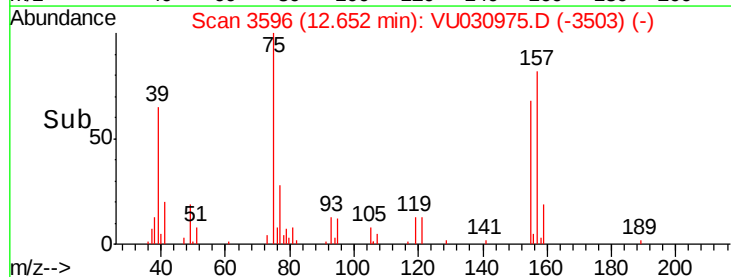
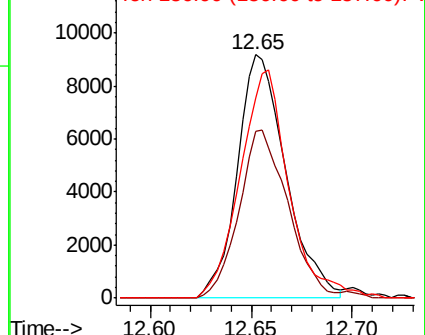
157 82.1 76.9 115.3

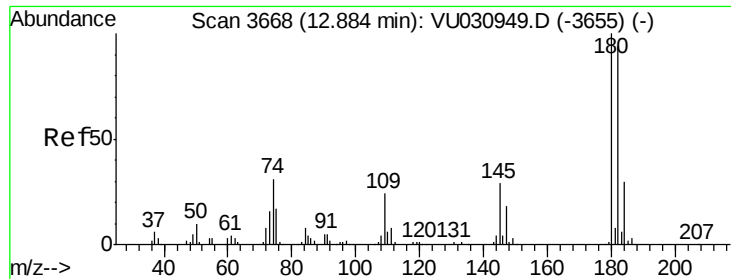


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

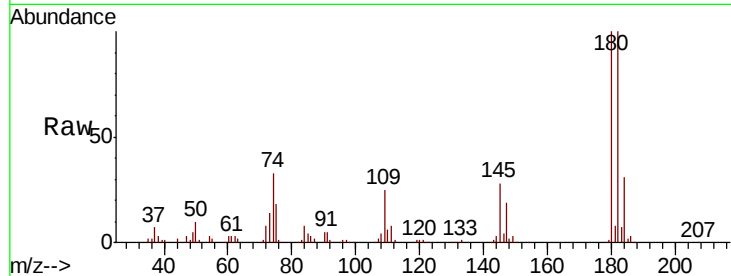




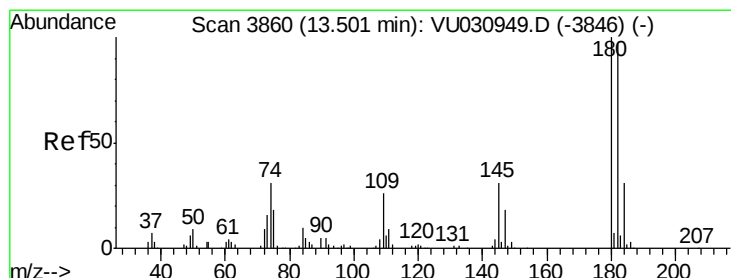
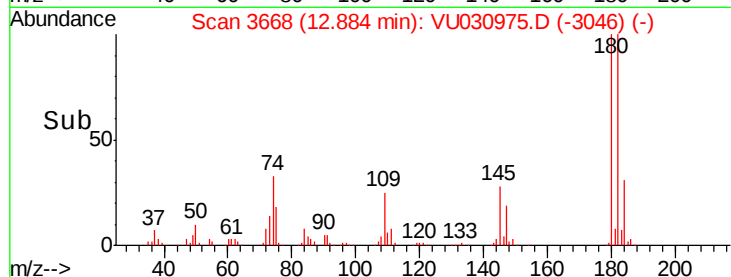
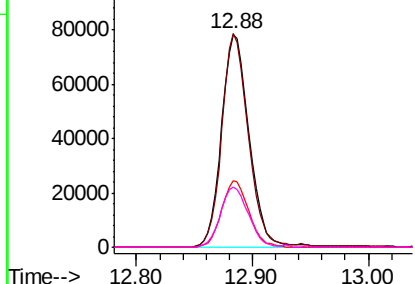
#67
 1,3,5-Trichlorobenzene
 Concen: 4.858 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion:180	Resp:	129508
Ion Ratio	Lower	Upper
180	100	
182	95.6	76.2 114.2
184	30.6	24.2 36.2
145	28.5	24.1 36.1

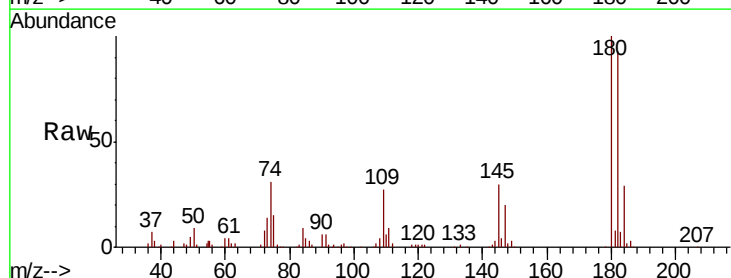


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

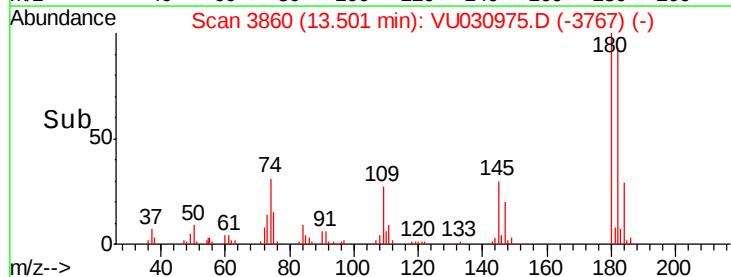
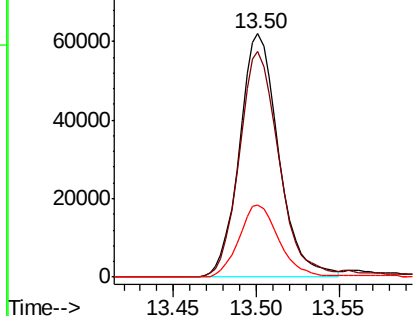


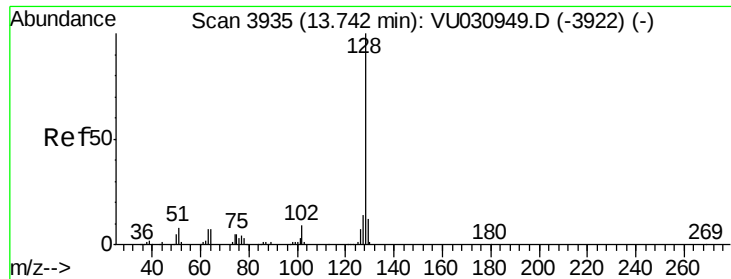
#68
 1,2,4-trichlorobenzene
 Concen: 4.953 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU030975.D
 Acq: 09 Apr 2019 23:04

Tgt Ion:180	Resp:	101966
Ion Ratio	Lower	Upper
180	100	
182	94.0	74.6 111.8
145	30.4	23.6 35.4



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





#69

Naphthalene

Concen: 4.876 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

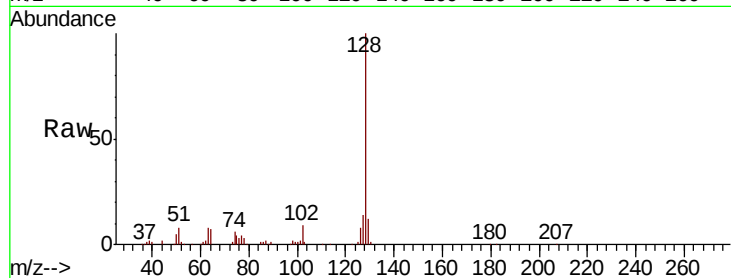
Tot Ion:128 Resp: 161202

Ion Ratio Lower Upper

128 100

129 11.3 8.3 12.5

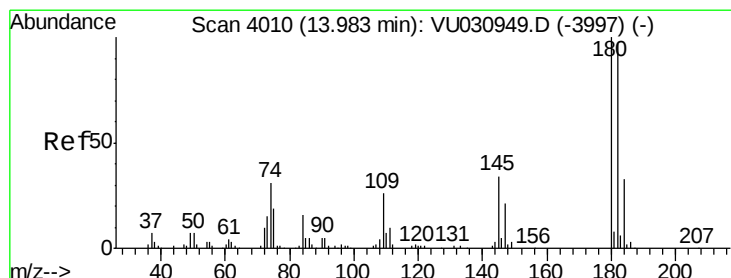
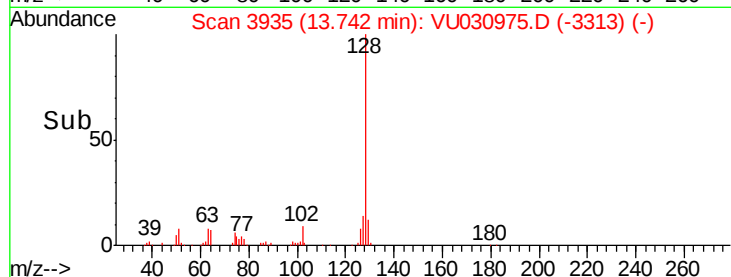
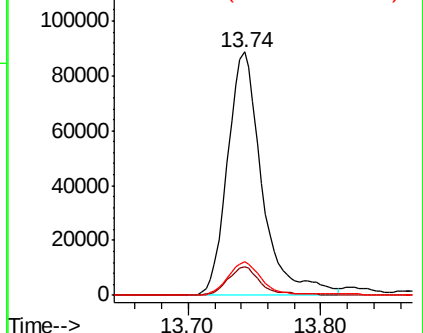
127 13.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.338 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030975.D

Acq: 09 Apr 2019 23:04

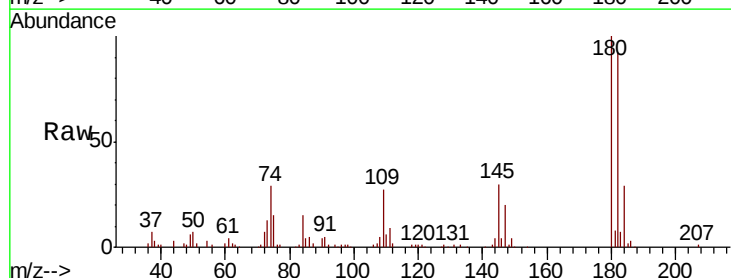
Tgt Ion:180 Resp: 102429

Ion Ratio Lower Upper

180 100

182 92.6 76.8 115.2

145 31.3 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

