

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
 Data File : VU032324.D
 Acq On : 28 May 2019 13:23
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Quant Time: May 29 05:23:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 29 05:19:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	842809	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	826522	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	412199	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	299532	48.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.44%
7) Chloroethane-d5	1.67	69	240278	47.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.80%
11) 1,1-Dichloroethene-d2	2.27	63	525553	47.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.24%
21) 2-Butanone-d5	4.17	46	420173	102.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.77%
24) Chloroform-d	4.64	84	525808	48.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.72%
26) 1,2-Dichloroethane-d4	5.31	65	316699	49.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.44%
32) Benzene-d6	5.33	84	1084894	50.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.08%
36) 1,2-Dichloropropane-d6	6.32	67	335740	49.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.78%
41) Toluene-d8	7.56	98	1032198	51.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.06%
43) trans-1,3-Dichloropropene-	7.85	79	159470	51.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.50%
47) 2-Hexanone-d5	8.31	63	305812	108.32	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.32%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	502946	48.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.82%
64) 1,2-Dichlorobenzene-d4	11.85	152	406484	48.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	323371	49.452 ug/L	98
3) Chloromethane	1.32	50	329438	47.542 ug/L	99
5) Vinyl chloride	1.40	62	346290	49.001 ug/L	99
6) Bromomethane	1.61	94	226257	50.065 ug/L	97
8) Chloroethane	1.69	64	200070	46.810 ug/L	98
9) Trichlorofluoromethane	1.88	101	436093	49.201 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	259400	48.493 ug/L	100
12) 1,1-Dichloroethene	2.28	96	263303	48.264 ug/L	89
13) Acetone	2.32	43	373857	97.030 ug/L	98
14) Carbon disulfide	2.47	76	790943	48.317 ug/L	97
15) Methyl Acetate	2.61	43	307303	49.908 ug/L	98
16) Methylene chloride	2.69	84	302505	47.570 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	277661	49.404 ug/L	93
18) Methyl tert-butyl Ether	3.00	73	854055	50.192 ug/L	99
19) 1,1-Dichloroethane	3.44	63	500931	49.070 ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	312217	49.561 ug/L	100
22) 2-Butanone	4.26	43	483623	104.220 ug/L	100

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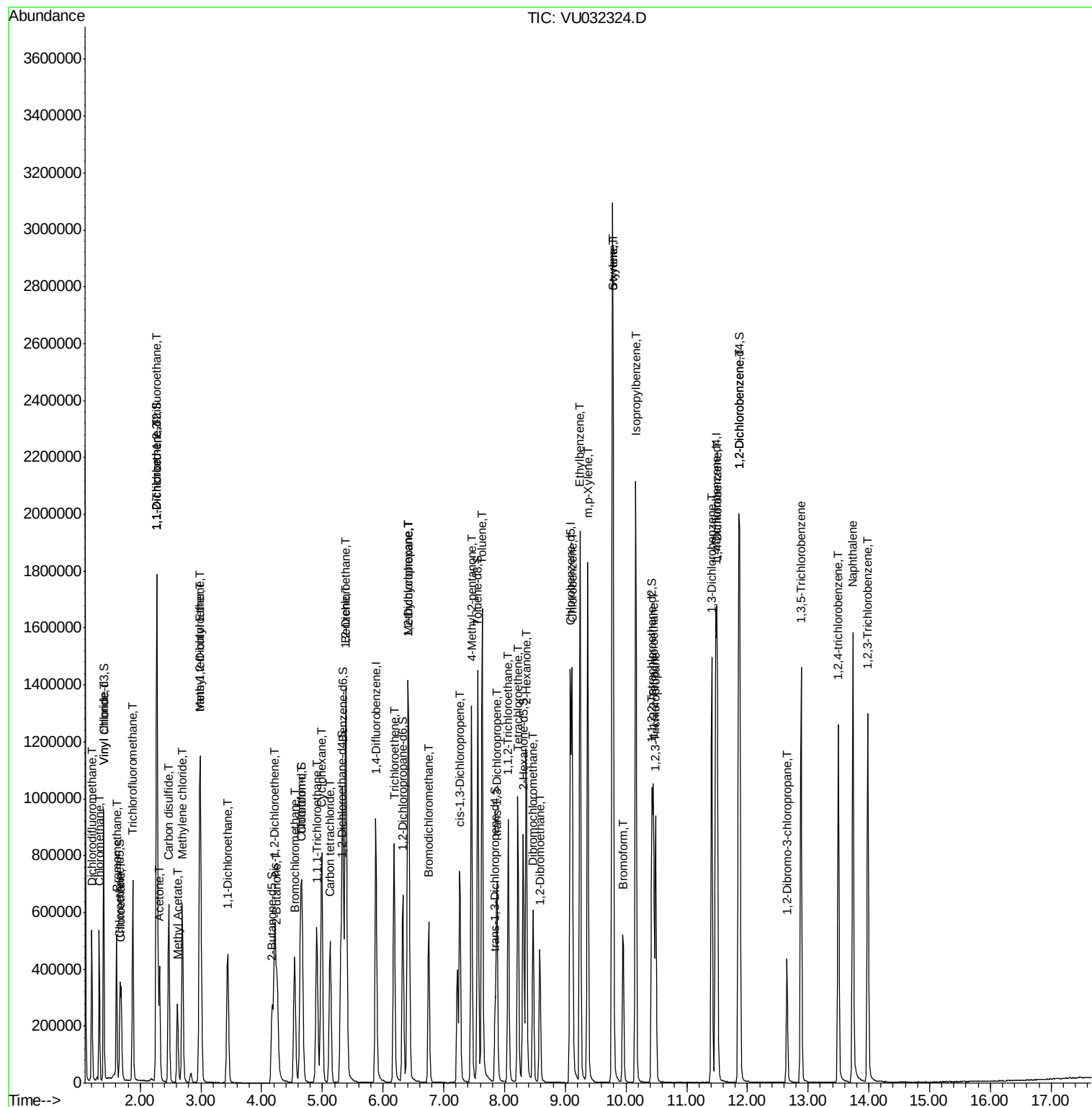
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	160934	48.416	ug/L	96
25) Chloroform	4.67	83	520718	49.040	ug/L	98
27) 1,2-Dichloroethane	5.40	62	385154	48.732	ug/L	100
29) Cyclohexane	4.99	56	446967	52.950	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	436228	50.386	ug/L	99
31) Carbon tetrachloride	5.13	117	375304	50.624	ug/L	99
33) Benzene	5.38	78	1164538	50.347	ug/L	100
34) Trichloroethene	6.18	95	303900	50.855	ug/L	97
35) Methylcyclohexane	6.41	83	475525	52.373	ug/L	99
37) 1,2-Dichloropropane	6.43	63	299444	49.565	ug/L	100
38) Bromodichloromethane	6.75	83	389188	50.128	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	455214	50.980	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	852667	108.205	ug/L	100
42) Toluene	7.63	91	1292115	51.311	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	407719	52.135	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	295924	50.097	ug/L	97
46) Tetrachloroethene	8.22	164	245805	50.631	ug/L	98
48) 2-Hexanone	8.36	43	702871	109.336	ug/L	99
49) Dibromochloromethane	8.47	129	323734	50.600	ug/L	97
50) 1,2-Dibromoethane	8.58	107	324638	52.101	ug/L	100
51) Chlorobenzene	9.12	112	820638	50.545	ug/L	99
52) Ethylbenzene	9.24	91	1416727	52.699	ug/L	100
53) m,p-Xylene	9.37	106	559851	54.127	ug/L	100
54) o-xylene	9.77	106	549319	52.915	ug/L	99
55) Styrene	9.79	104	944616	54.240	ug/L	98
56) Isopropylbenzene	10.16	105	1409664	53.514	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	506298	49.638	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	399113	49.803	ug/L	100
61) Bromoform	9.95	173	249669	47.554	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	641575	50.809	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	658203	50.502	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	664734	50.007	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	117942	54.149	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	503197	53.421	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	413472	57.122	ug/L	98
69) Naphthalene	13.74	128	1356215	62.583	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	455007	58.118	ug/L	97

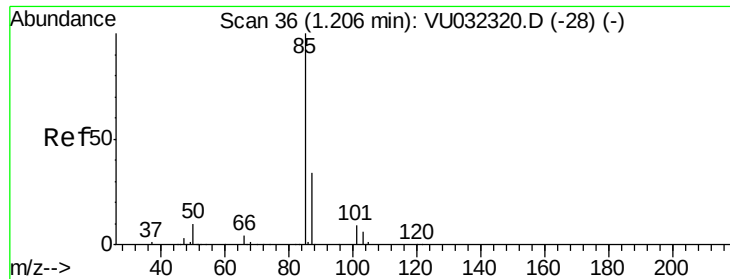
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 49.452 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

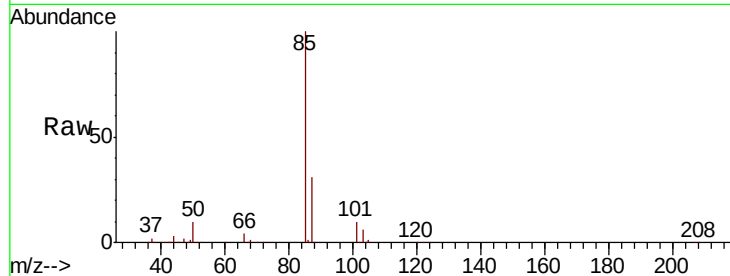
VSTD05052

Tgt Ion: 85 Resp: 323371

Ion Ratio Lower Upper

85 100

87 32.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VU032320.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032320.D (-28) (-)

1.20

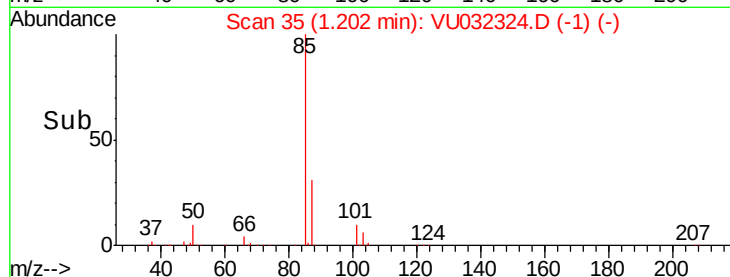
300000

200000

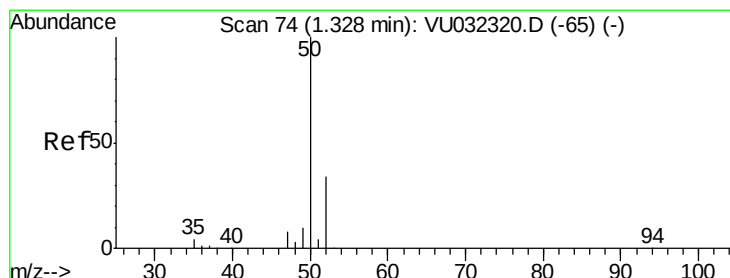
100000

0

Time-->



Time-->



#3

Chloromethane

Concen: 47.542 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032324.D

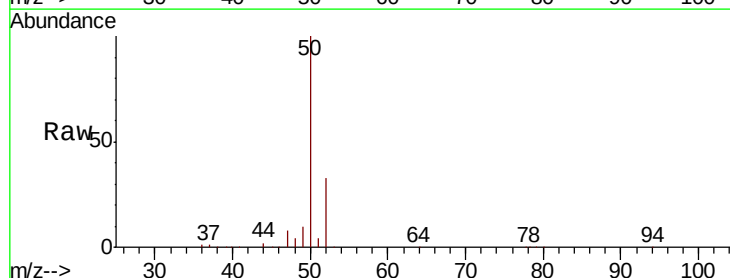
Acq: 28 May 2019 13:23

Tgt Ion: 50 Resp: 329438

Ion Ratio Lower Upper

50 100

52 33.3 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU032320.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU032320.D (-65) (-)

1.32

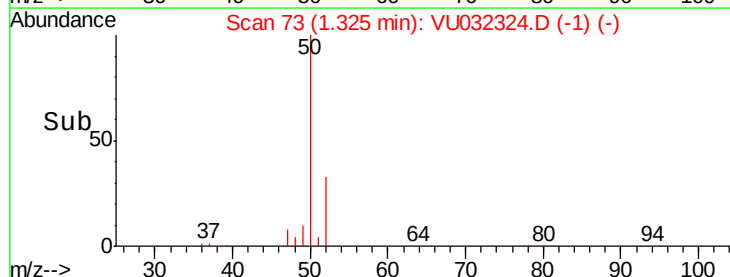
300000

200000

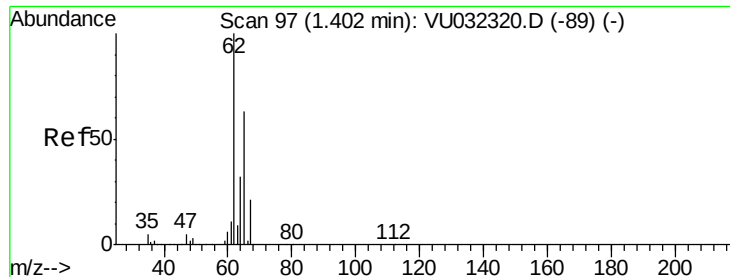
100000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 49.001 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

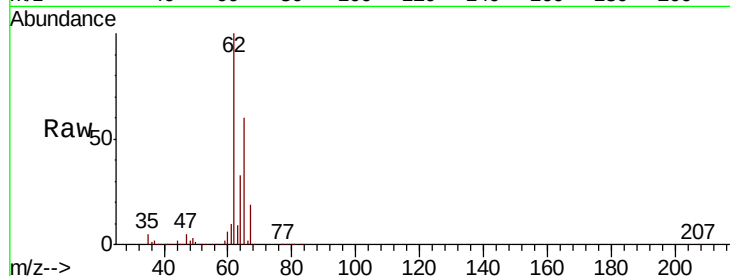
VSTD05052

Tgt Ion: 62 Resp: 346290

Ion Ratio Lower Upper

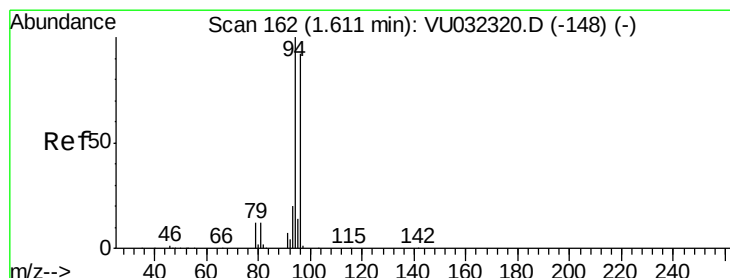
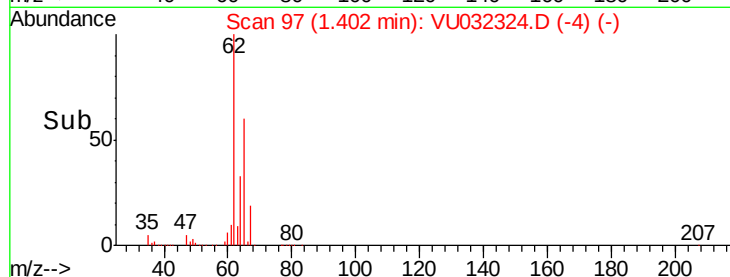
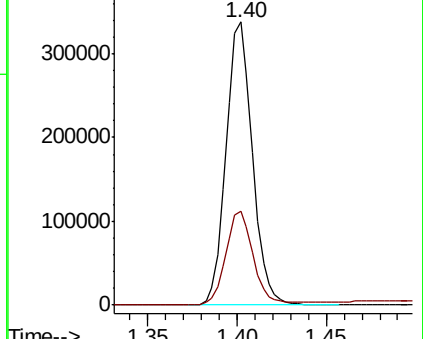
62 100

64 33.1 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU032324.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032324.D (-89) (-)



#6

Bromomethane

Concen: 50.065 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU032324.D

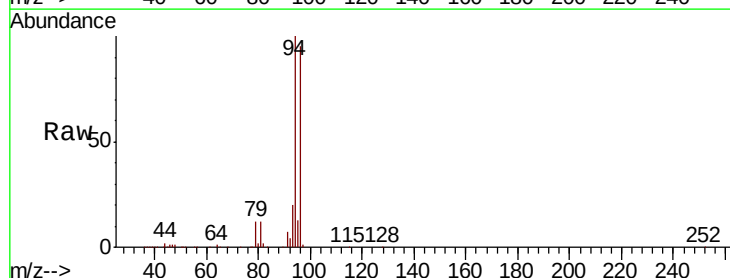
Acq: 28 May 2019 13:23

Tgt Ion: 94 Resp: 226257

Ion Ratio Lower Upper

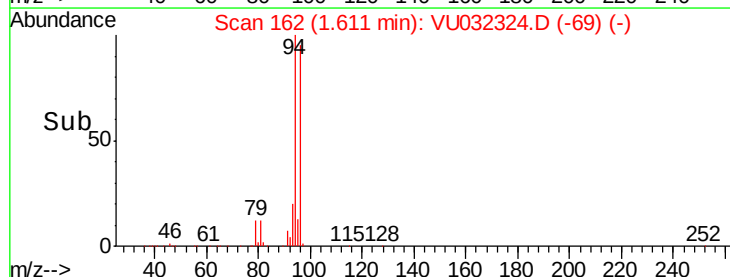
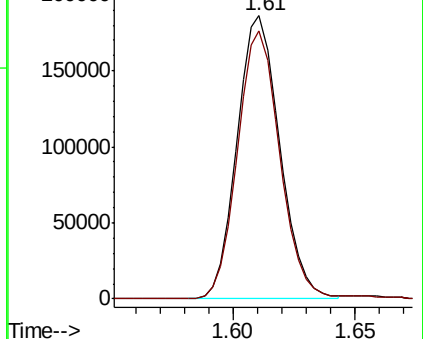
94 100

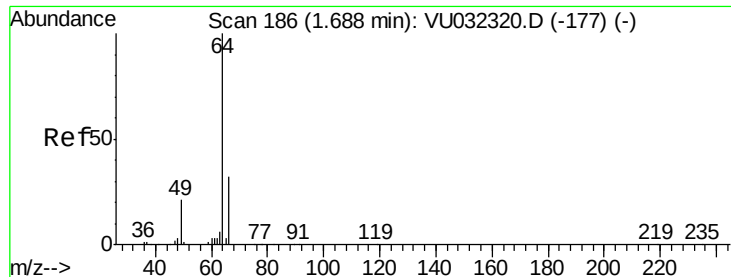
96 94.7 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU032324.D (-69) (-)

Ion 96.00 (95.70 to 96.70): VU032324.D (-69) (-)





#8

Chloroethane

Concen: 46.810 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

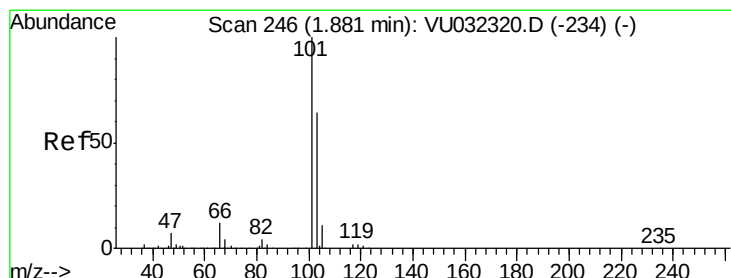
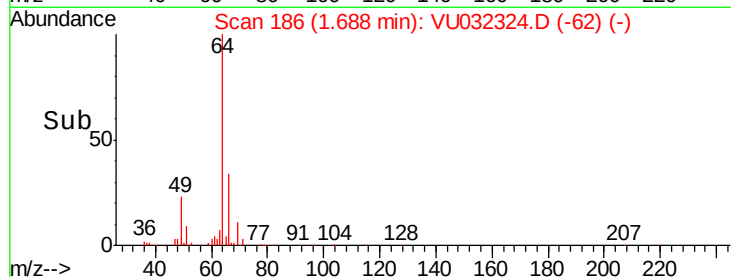
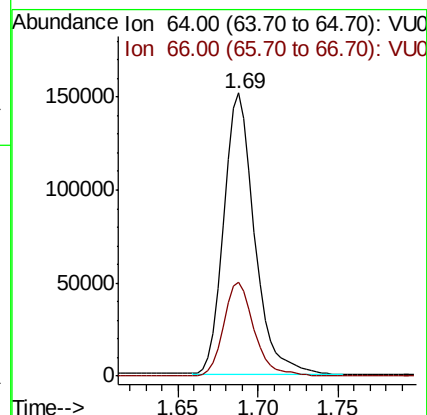
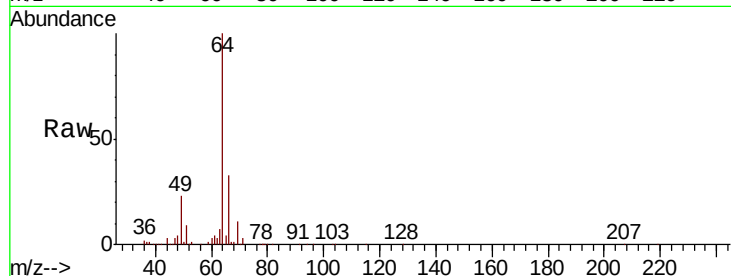
VSTD05052

Tgt Ion: 64 Resp: 200070

Ion Ratio Lower Upper

64 100

66 33.1 22.4 41.6



#9

Trichlorofluoromethane

Concen: 49.201 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU032324.D

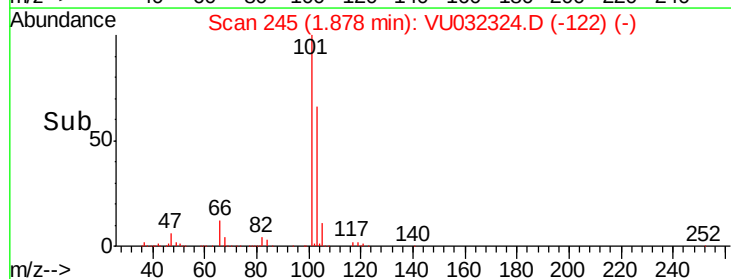
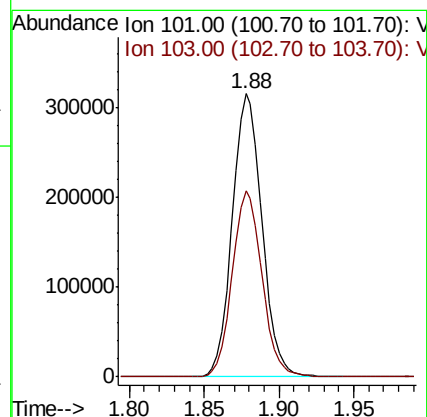
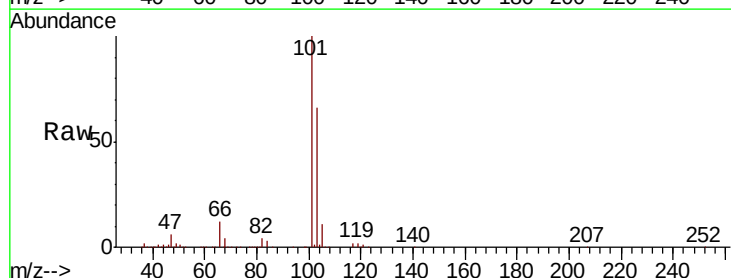
Acq: 28 May 2019 13:23

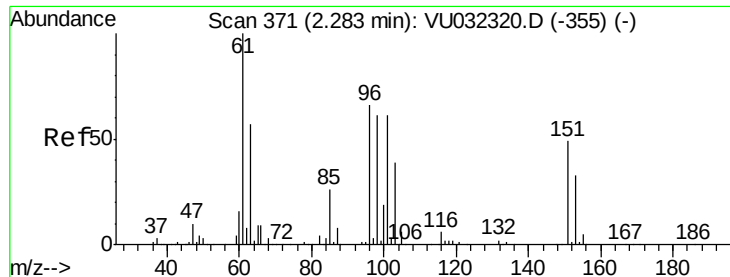
Tgt Ion: 101 Resp: 436093

Ion Ratio Lower Upper

101 100

103 65.8 51.7 77.5





#10

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

Concen: 48.493 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

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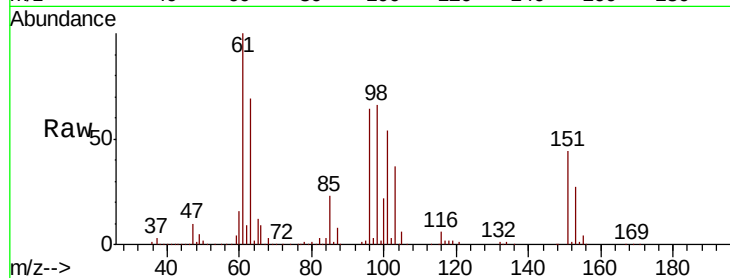
Tgt Ion: 101 Resp: 259400

Ion Ratio Lower Upper

101 100

85 42.1 33.4 50.0

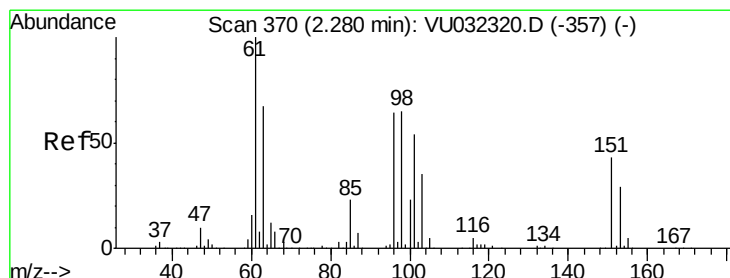
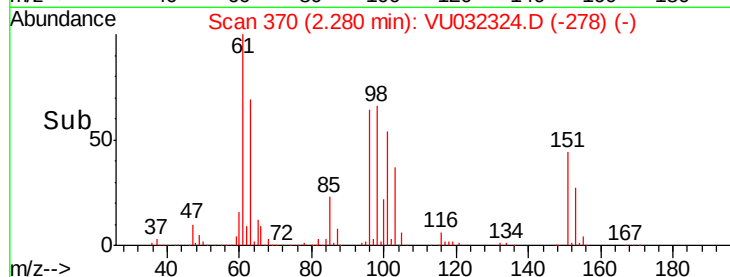
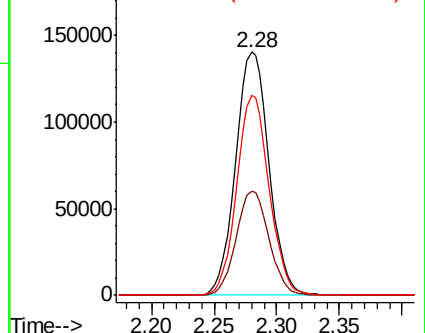
151 79.9 63.7 95.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.264 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

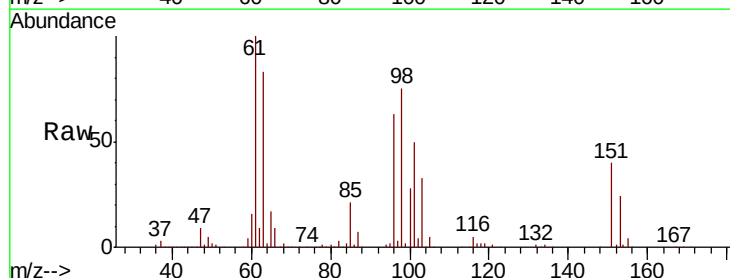
Tgt Ion: 96 Resp: 263303

Ion Ratio Lower Upper

96 100

61 158.5 109.8 203.8

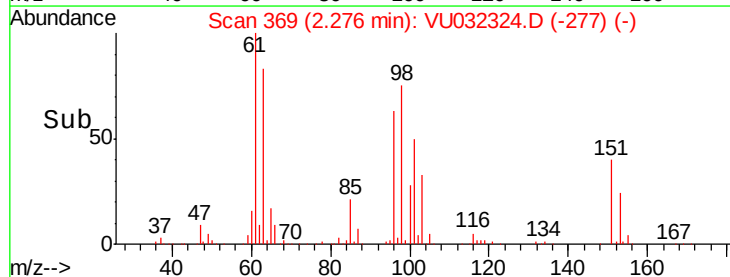
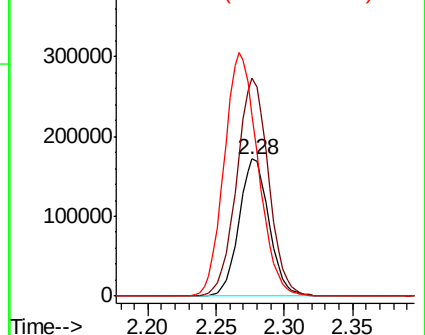
63 132.1 74.4 138.2

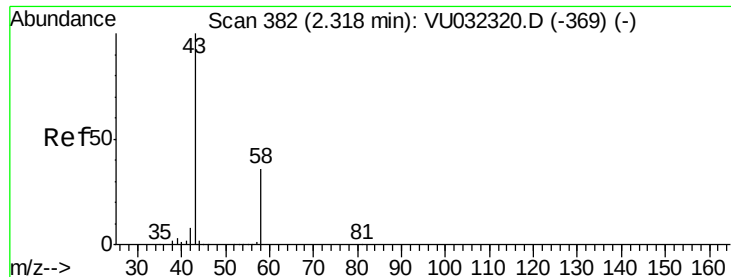


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 97.030 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

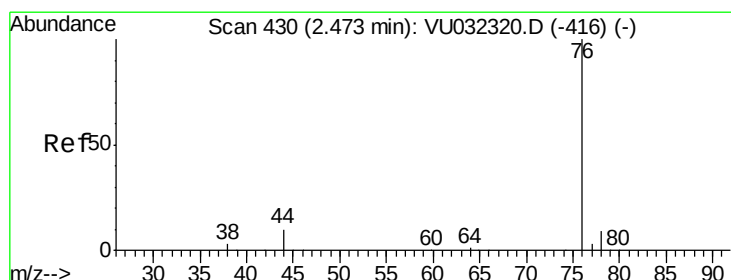
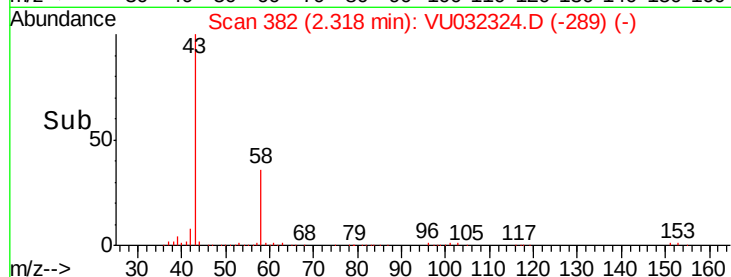
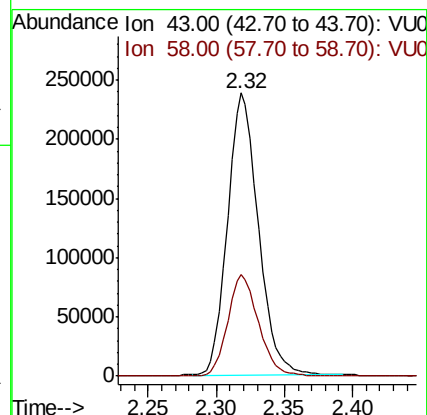
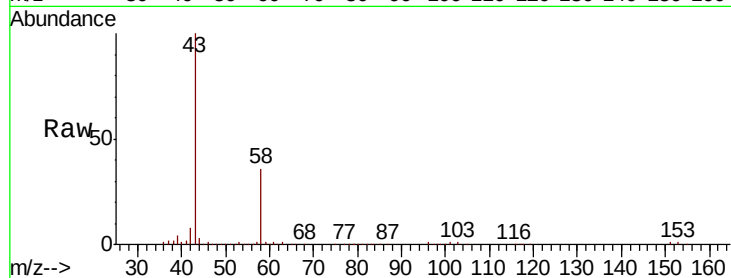
VSTD05052

Tgt Ion: 43 Resp: 373857

Ion Ratio Lower Upper

43 100

58 35.6 0.0 73.6



#14

Carbon disulfide

Concen: 48.317 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU032324.D

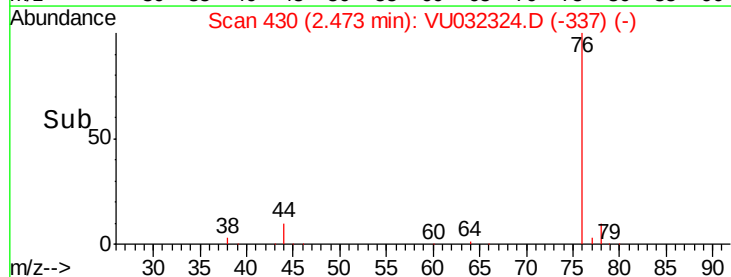
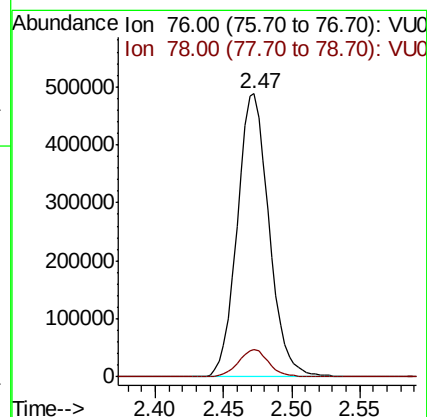
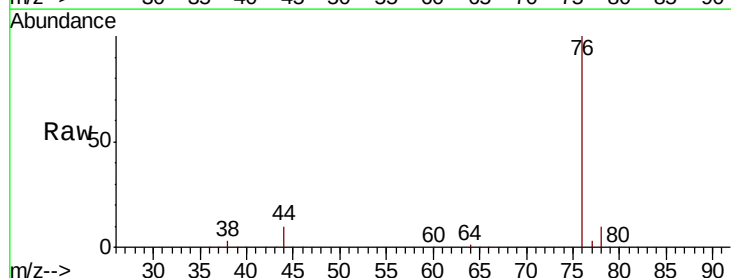
Acq: 28 May 2019 13:23

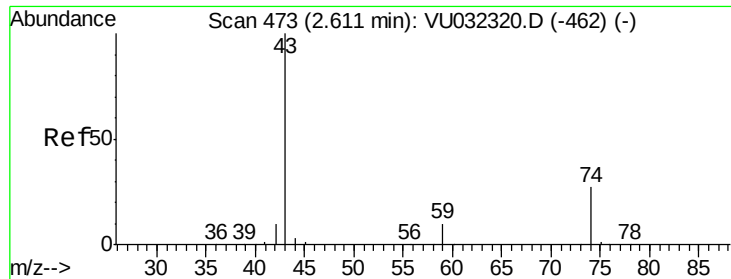
Tgt Ion: 76 Resp: 790943

Ion Ratio Lower Upper

76 100

78 9.9 7.0 10.6

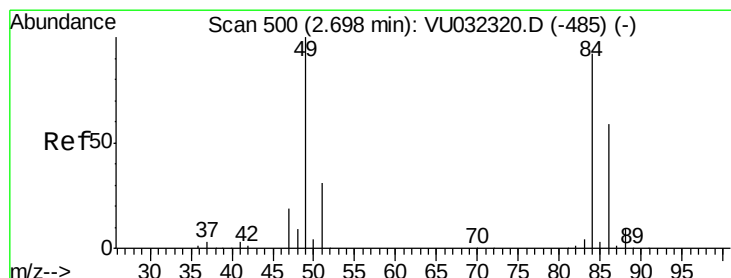
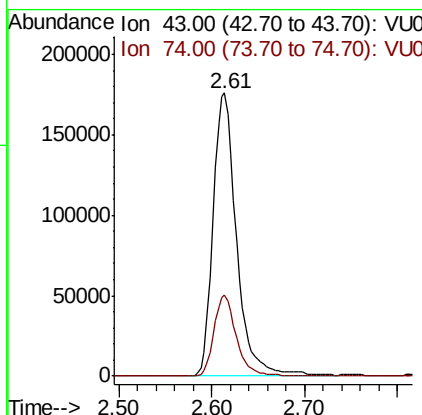
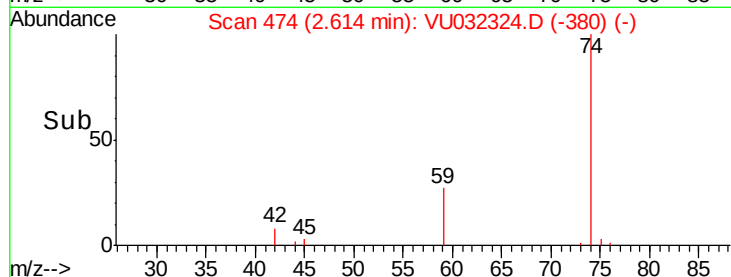
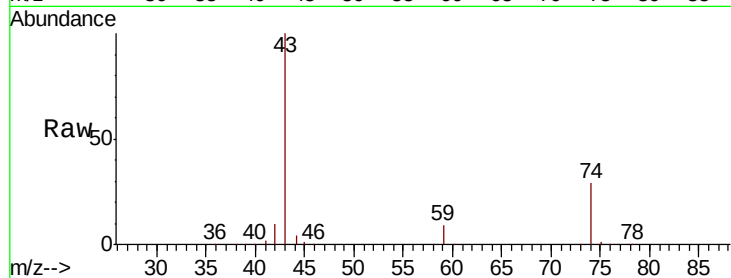




#15
Methyl Acetate
Concen: 49.908 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

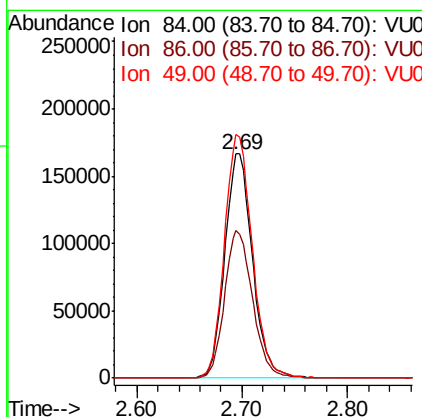
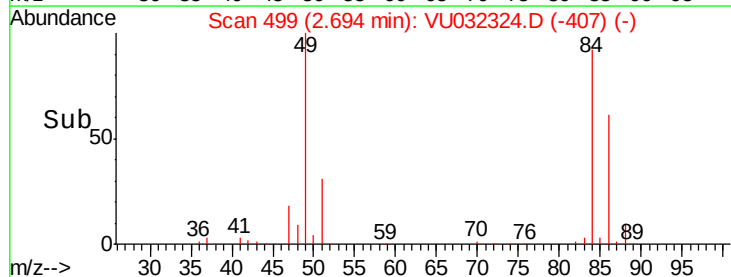
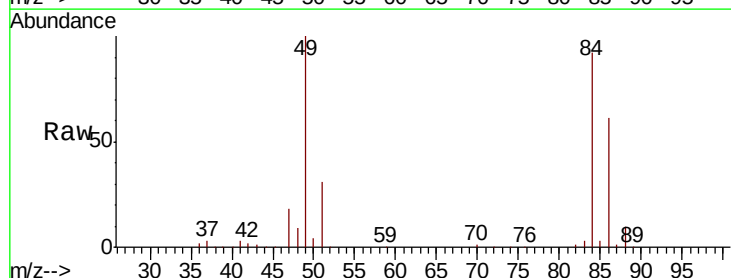
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

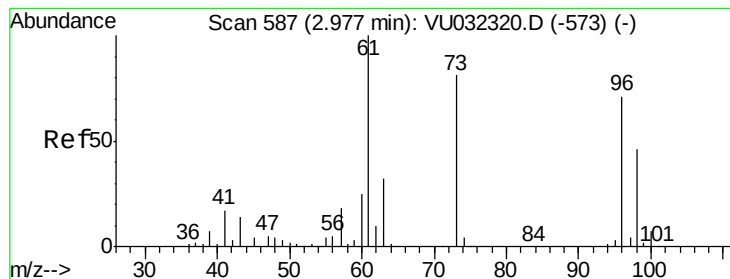
Tgt Ion: 43 Resp: 307303
Ion Ratio Lower Upper
43 100
74 27.3 21.1 31.7



#16
Methylene chloride
Concen: 47.570 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

Tgt Ion: 84 Resp: 302505
Ion Ratio Lower Upper
84 100
86 65.7 45.0 83.6
49 108.6 75.9 140.9





#17

trans-1,2-Dichloroethene

Concen: 49.404 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

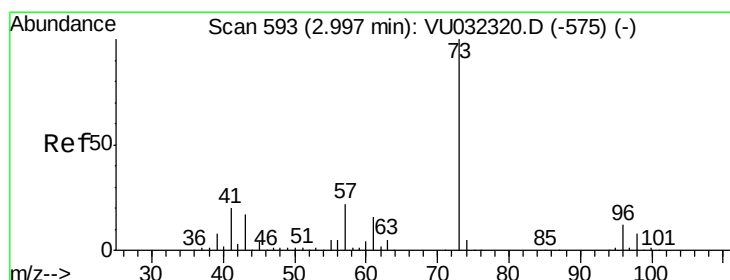
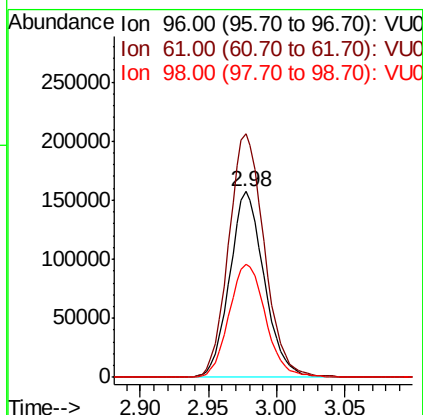
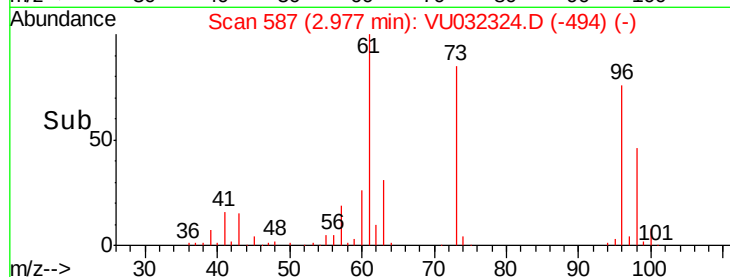
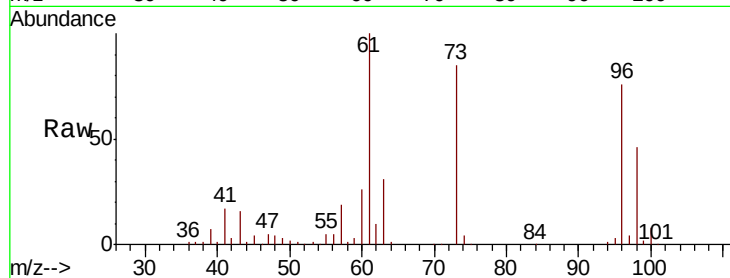
Tgt Ion: 96 Resp: 277661

Ion Ratio Lower Upper

96 100

61 131.2 98.2 182.4

98 60.7 45.5 84.5



#18

Methyl tert-butyl Ether

Concen: 50.192 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

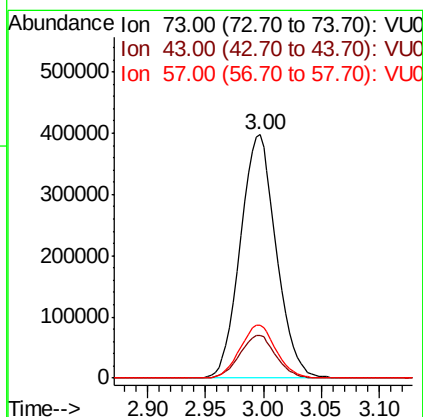
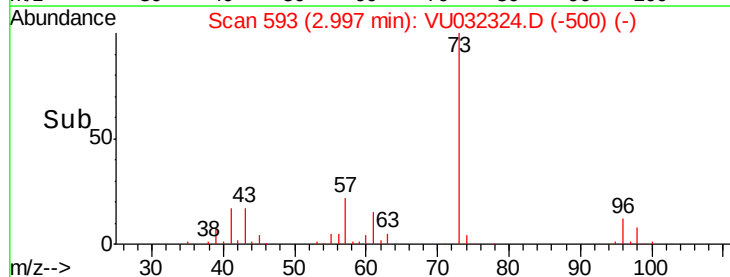
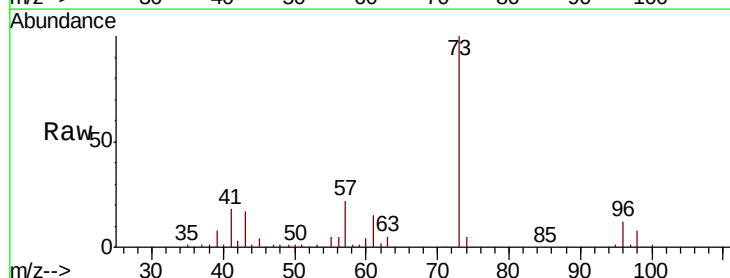
Tgt Ion: 73 Resp: 854055

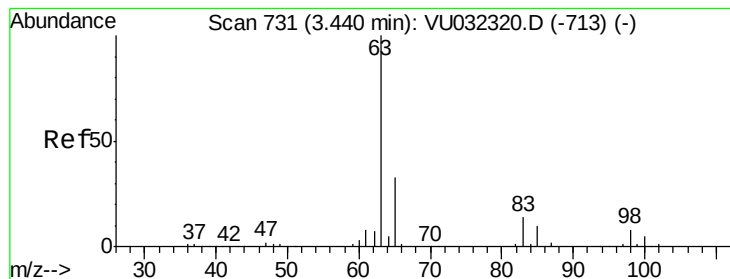
Ion Ratio Lower Upper

73 100

43 17.6 13.7 20.5

57 21.8 17.2 25.8





#19

1,1-Dichloroethane

Concen: 49.070 ug/L

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

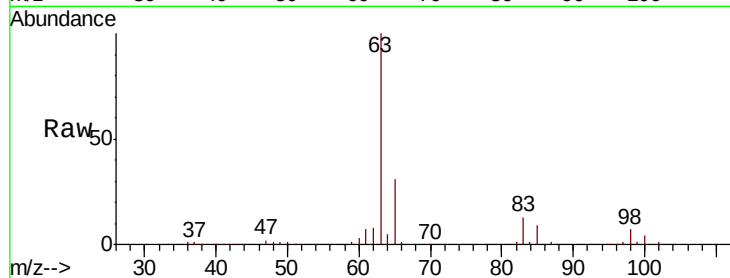
Tgt Ion: 63 Resp: 500931

Ion Ratio Lower Upper

63 100

65 31.3 23.2 43.0

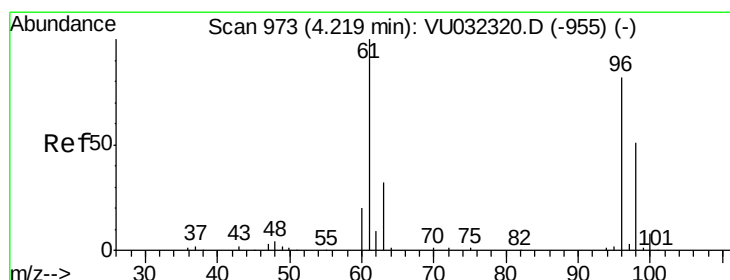
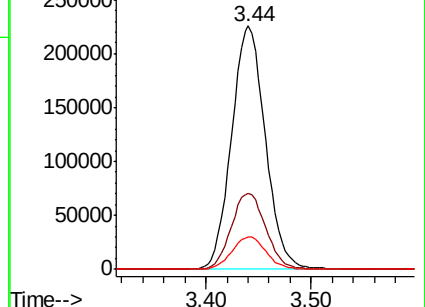
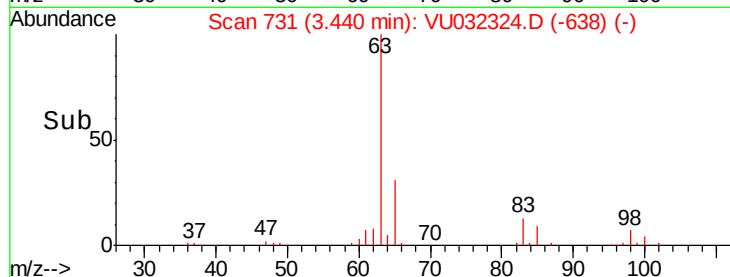
83 13.4 9.9 18.5



Abundance Ion 63.00 (62.70 to 63.70): VU032324.D (-638) (-)

Ion 65.00 (64.70 to 65.70): VU032324.D (-638) (-)

Ion 83.00 (82.70 to 83.70): VU032324.D (-638) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.561 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

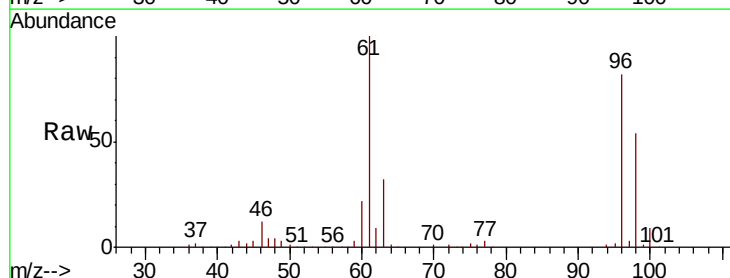
Tgt Ion: 96 Resp: 312217

Ion Ratio Lower Upper

96 100

61 122.2 85.6 159.0

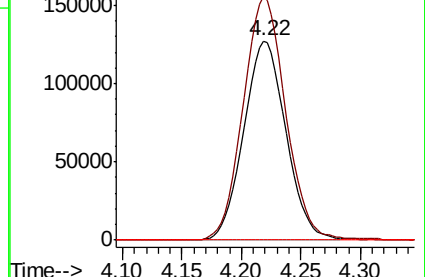
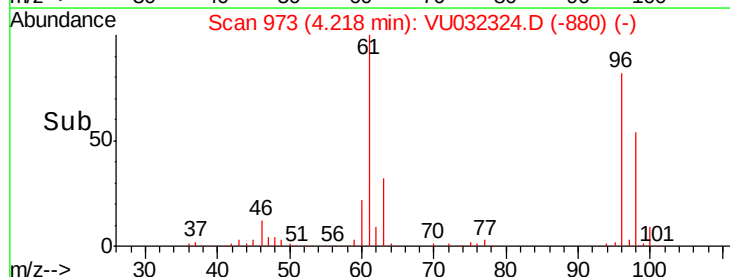
68 0.0 0.0 0.0

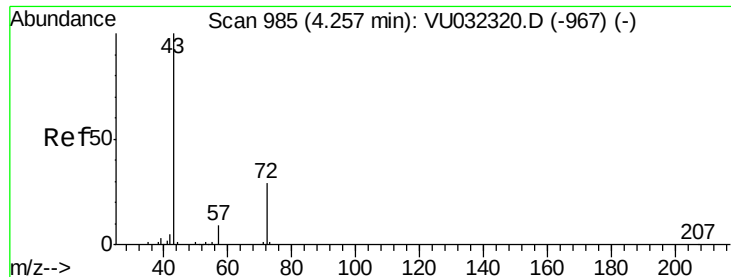


Abundance Ion 96.00 (95.70 to 96.70): VU032324.D (-880) (-)

Ion 61.00 (60.70 to 61.70): VU032324.D (-880) (-)

Ion 68.00 (67.70 to 68.70): VU032324.D (-880) (-)





#22

2-Butanone

Concen: 104.220 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

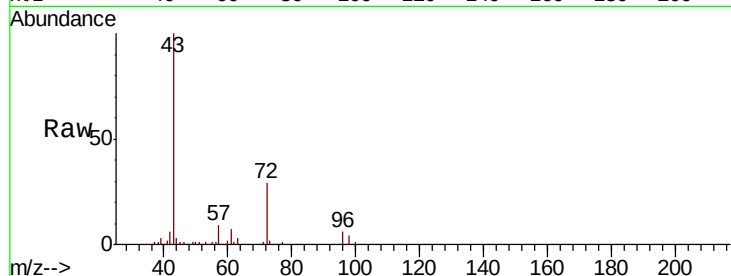
VSTD05052

Tgt Ion: 43 Resp: 483623

Ion Ratio Lower Upper

43 100

72 30.4 15.3 45.8



Abundance Ion 43.00 (42.70 to 43.70): VU032320.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU032320.D (-967) (-)

4.26

200000

150000

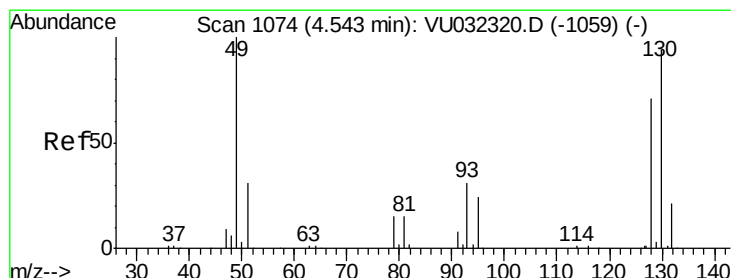
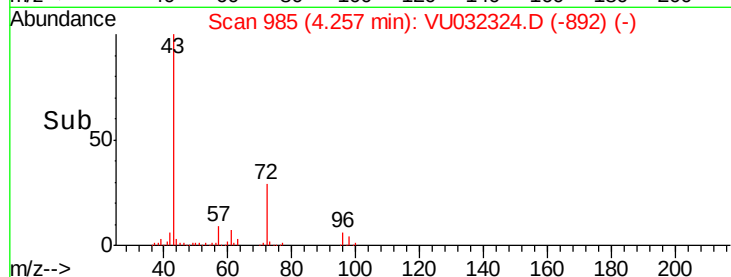
100000

50000

0

4.20 4.30

Time-->



#23

Bromochloromethane

Concen: 48.416 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Tgt Ion: 128 Resp: 160934

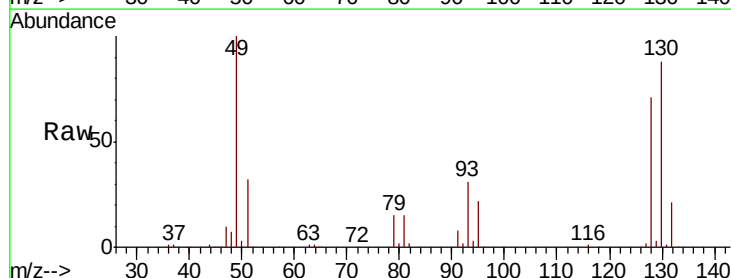
Ion Ratio Lower Upper

128 100

49 140.5 98.8 183.6

130 123.4 92.3 171.5

51 44.8 35.0 52.6



Abundance Ion 128.00 (127.70 to 128.70): VU032320.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032320.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032320.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU032320.D (-1059) (-)

150000

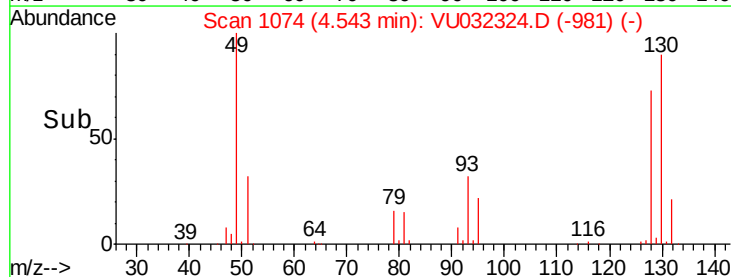
100000

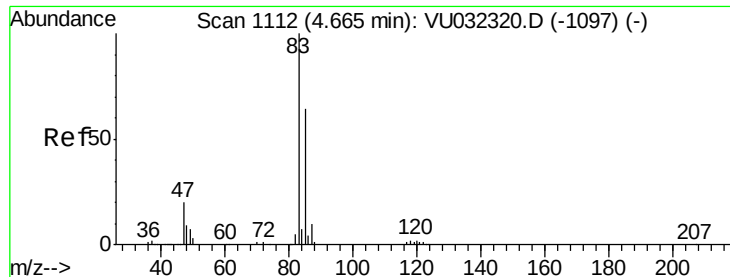
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->

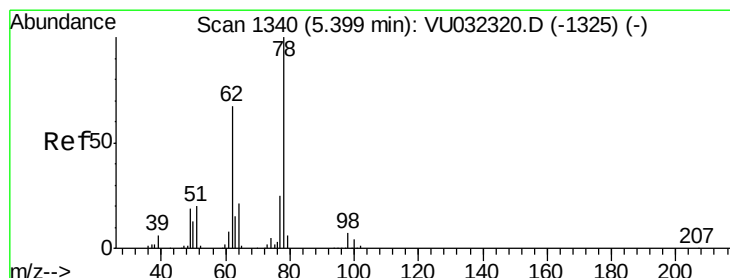
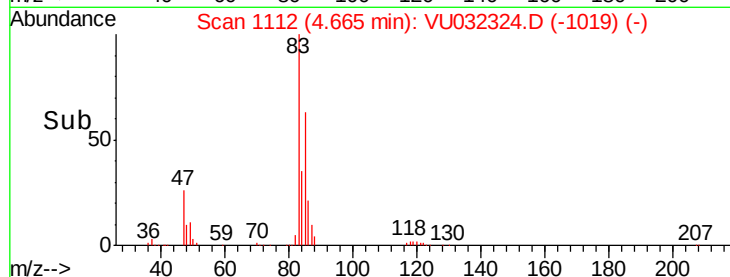
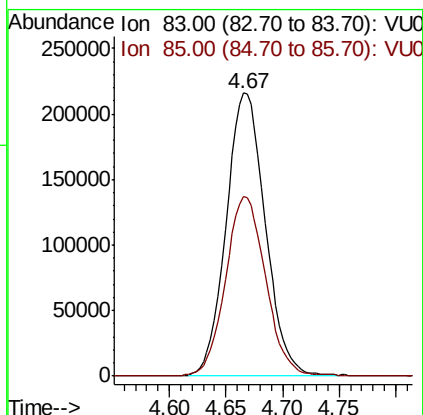
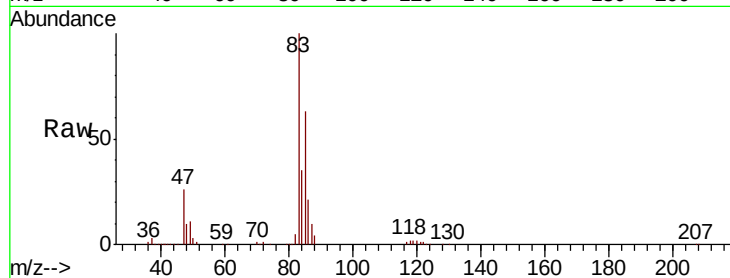




#25
Chloroform
Concen: 49.040 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

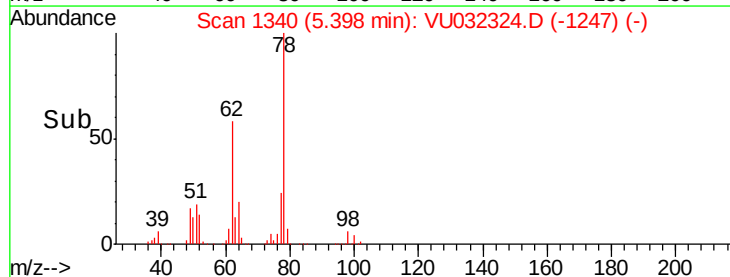
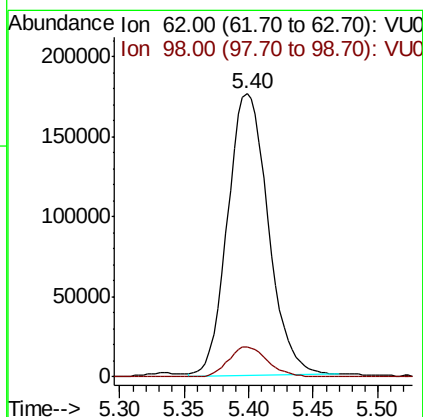
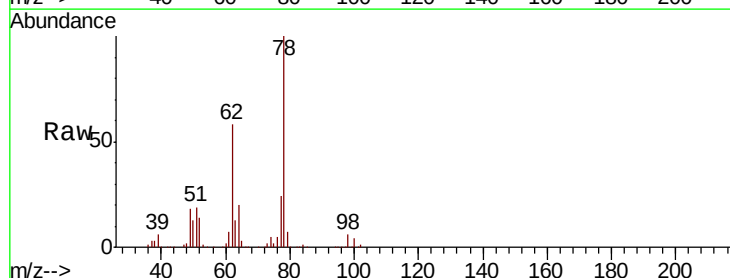
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

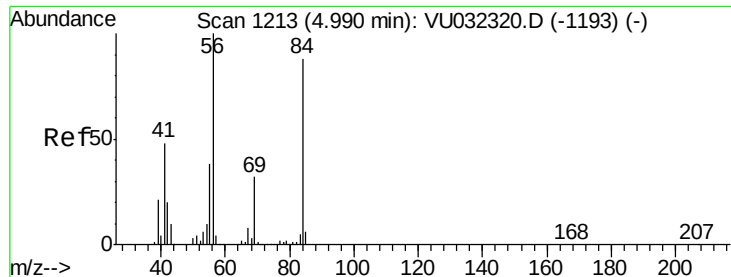
Tgt Ion: 83 Resp: 520718
Ion Ratio Lower Upper
83 100
85 63.3 45.1 83.9



#27
1,2-Dichloroethane
Concen: 48.732 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

Tgt Ion: 62 Resp: 385154
Ion Ratio Lower Upper
62 100
98 10.5 8.4 12.6

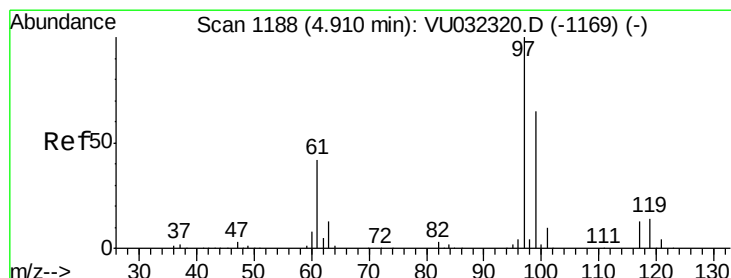
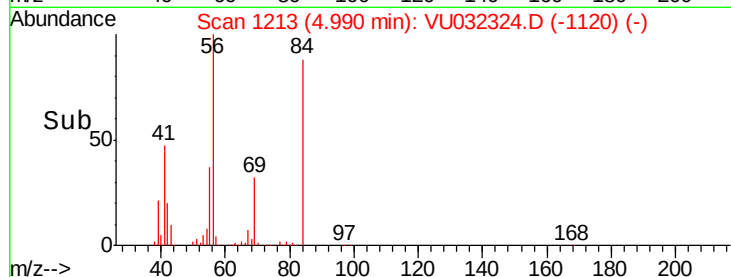
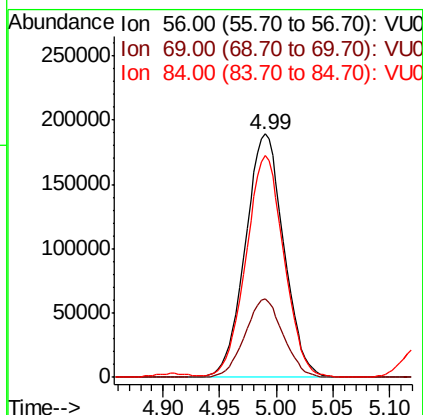
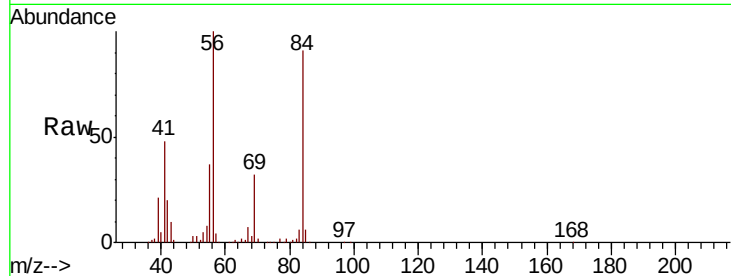




#29
Cyclohexane
Concen: 52.950 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

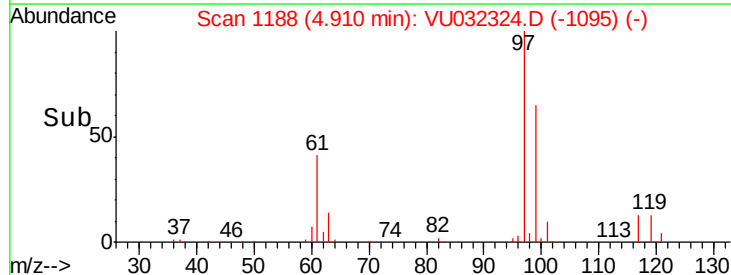
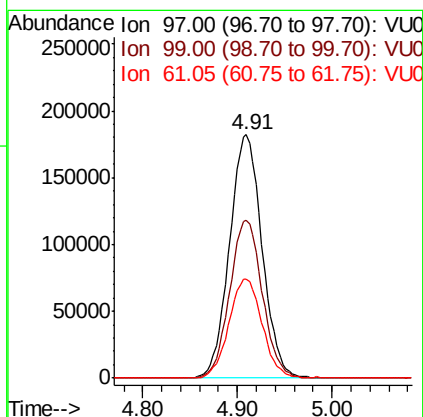
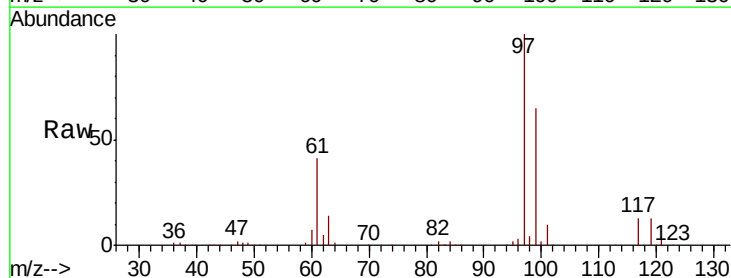
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

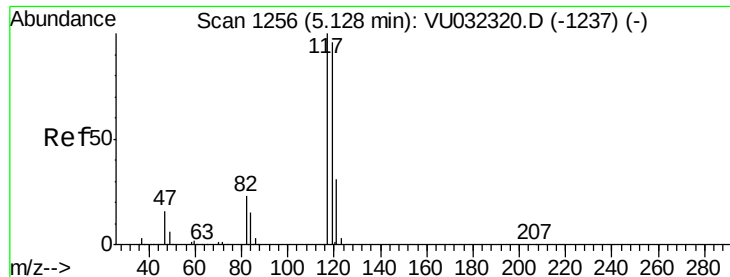
Tgt Ion: 56 Resp: 446967
Ion Ratio Lower Upper
56 100
69 32.0 25.6 38.4
84 89.9 71.4 107.2



#30
1,1,1-Trichloroethane
Concen: 50.386 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

Tgt Ion: 97 Resp: 436228
Ion Ratio Lower Upper
97 100
99 65.0 51.4 77.0
61 41.4 33.7 50.5





#31

Carbon tetrachloride

Concen: 50.624 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

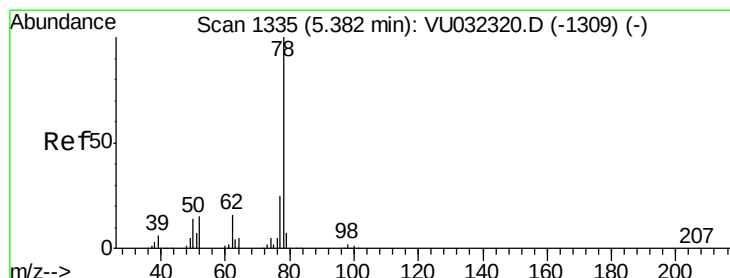
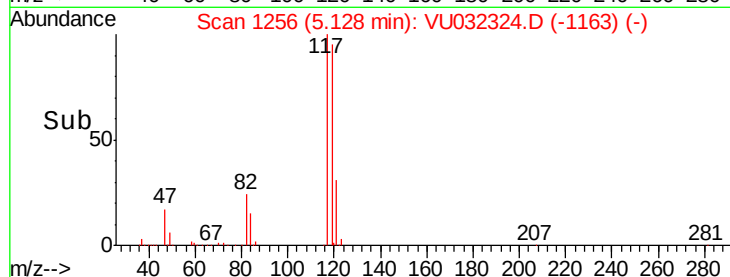
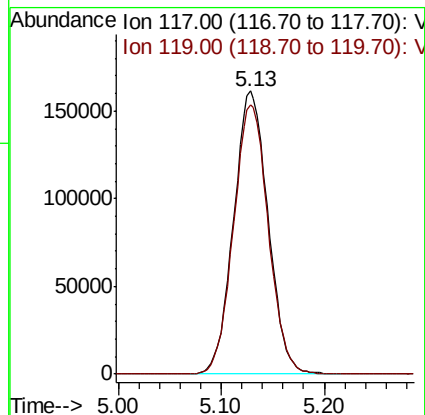
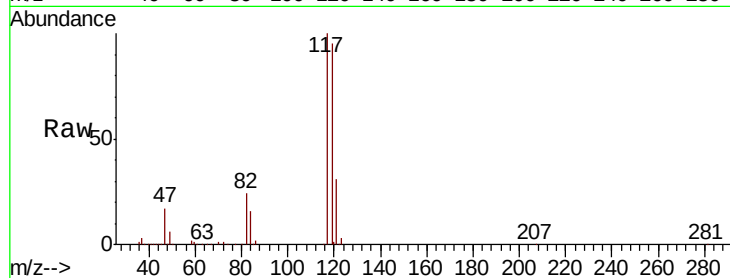
VSTD05052

Tgt Ion:117 Resp: 375304

Ion Ratio Lower Upper

117 100

119 96.0 77.4 116.0



#33

Benzene

Concen: 50.347 ug/L

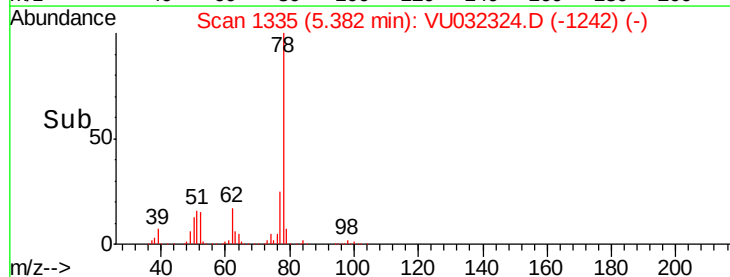
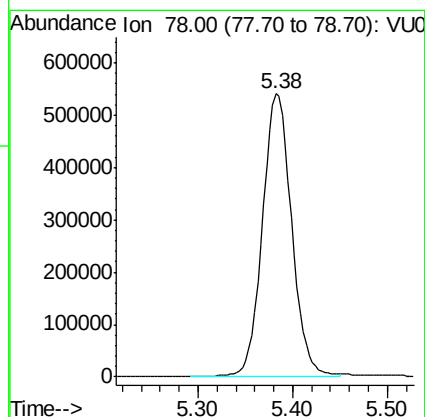
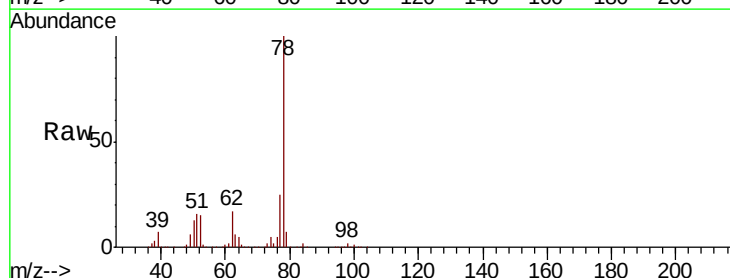
RT: 5.38 min Scan# 1335

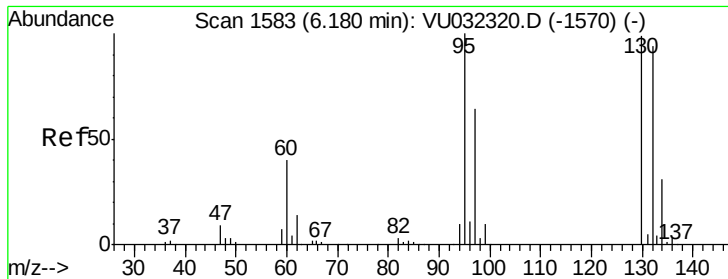
Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Tgt Ion: 78 Resp: 1164538





#34

Trichloroethene

Concen: 50.855 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 95 Resp: 303900

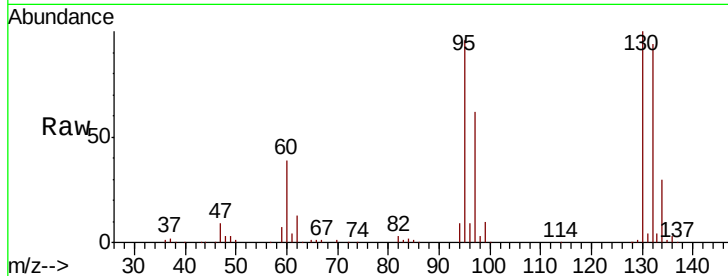
Ion Ratio Lower Upper

95 100

97 64.4 44.8 83.2

132 98.1 66.2 123.0

130 104.3 69.4 128.8

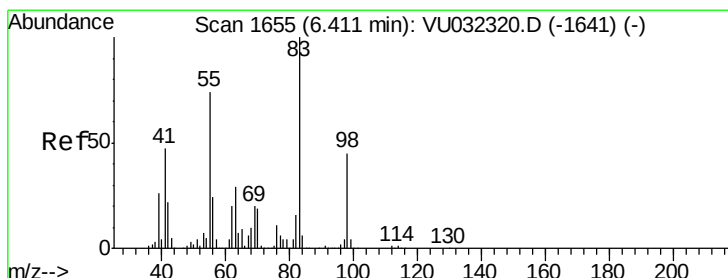
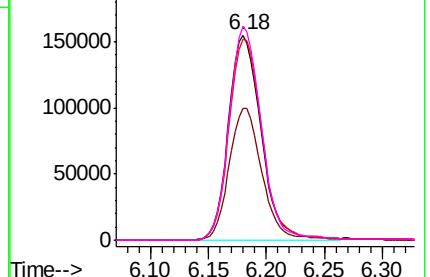
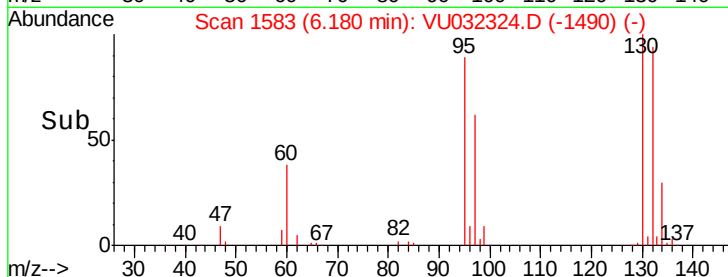


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 52.373 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

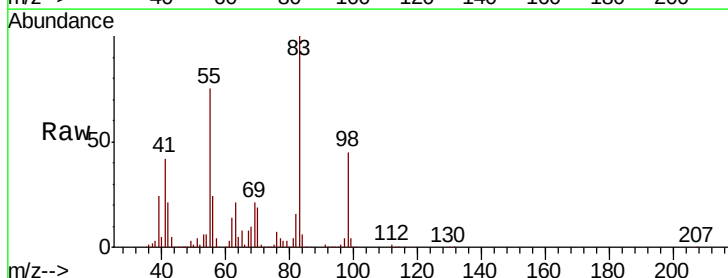
Tgt Ion: 83 Resp: 475525

Ion Ratio Lower Upper

83 100

55 73.9 59.4 89.0

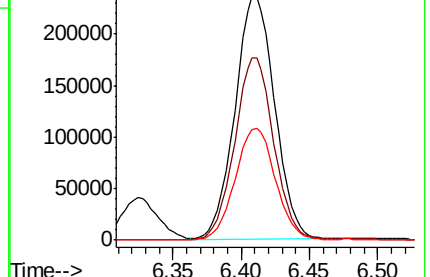
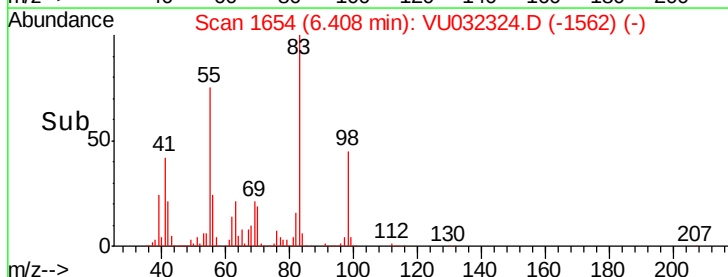
98 47.0 37.1 55.7

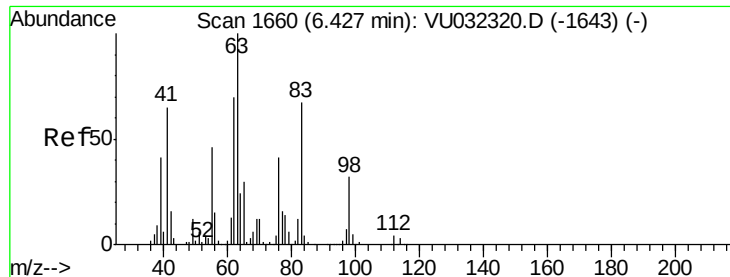


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

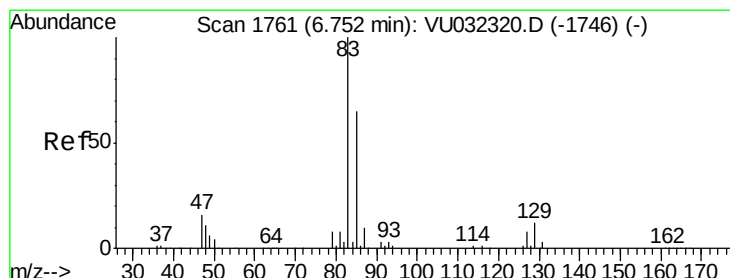
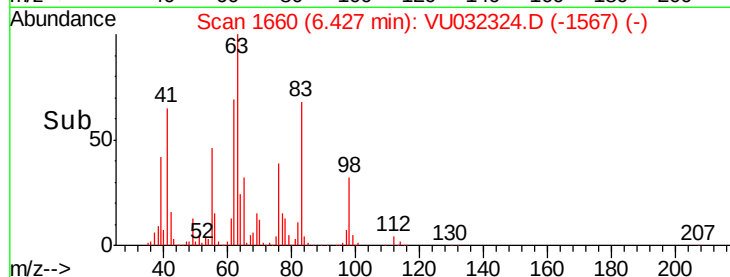
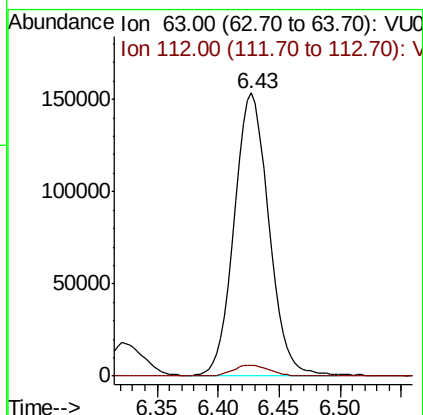
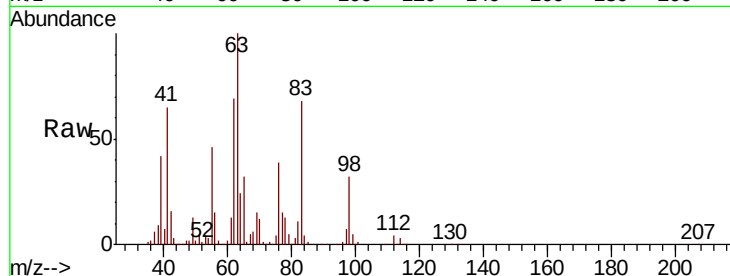




#37
 1,2-Dichloropropane
 Concen: 49.565 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

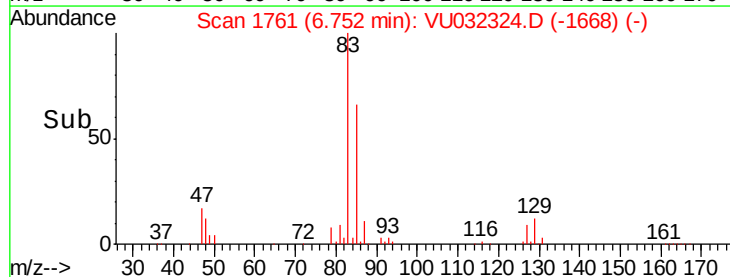
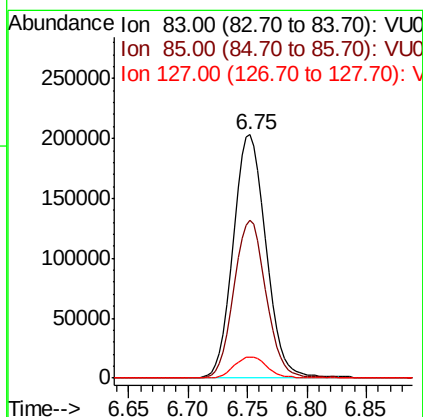
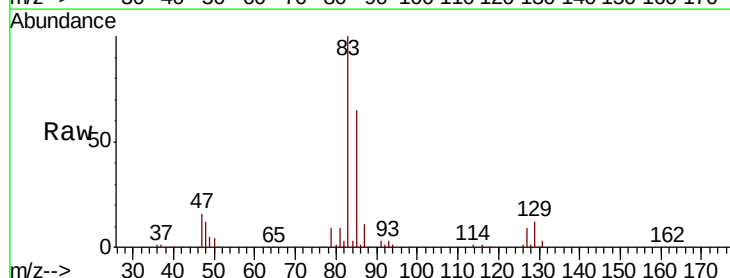
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

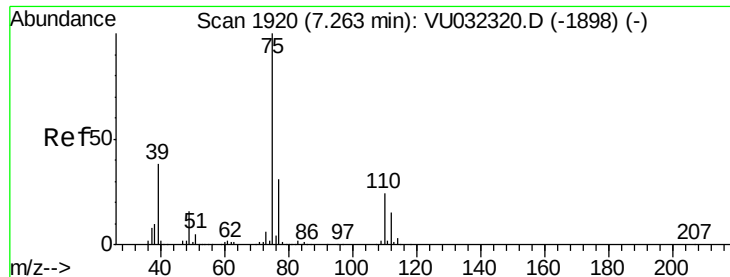
Tgt Ion: 63 Resp: 299444
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#38
 Bromodichloromethane
 Concen: 50.128 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

Tgt Ion: 83 Resp: 389188
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.4 84.2
 127 8.7 6.4 9.6

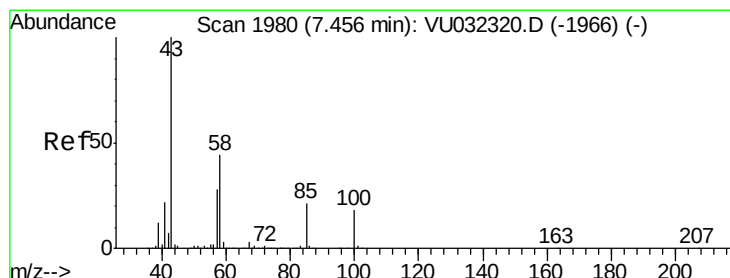
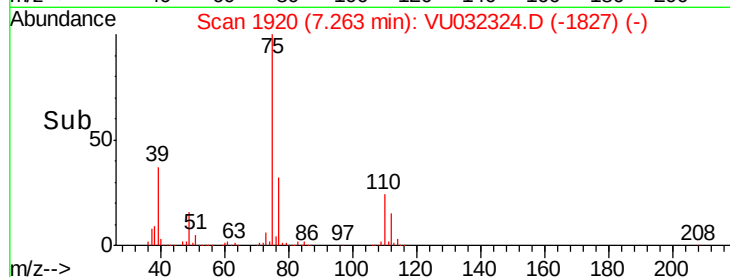
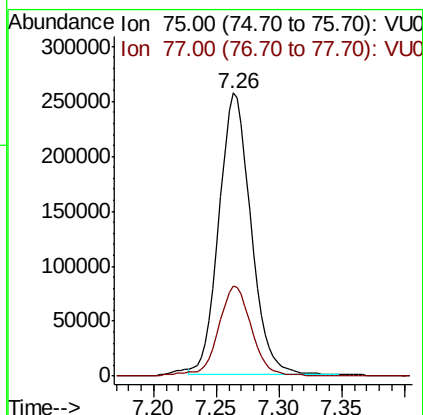
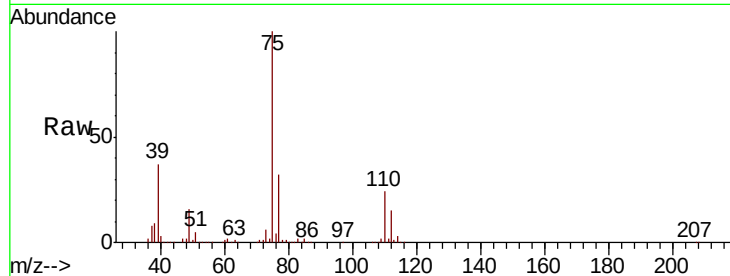




#39
 cis-1,3-Dichloropropene
 Concen: 50.980 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

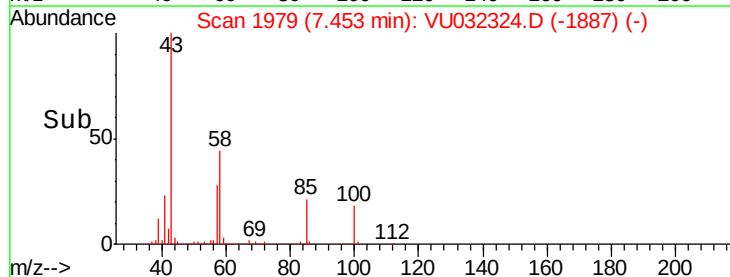
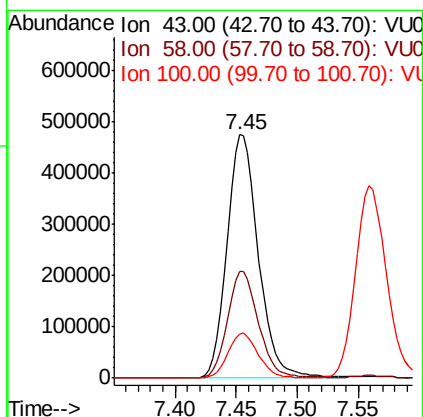
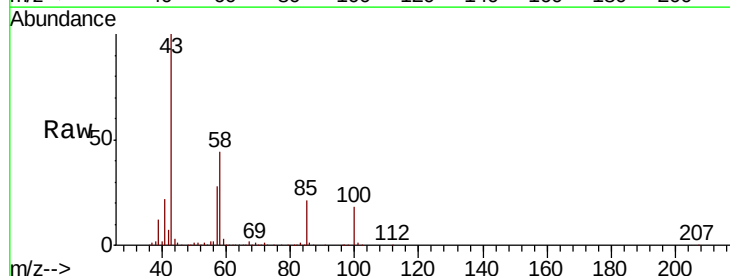
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

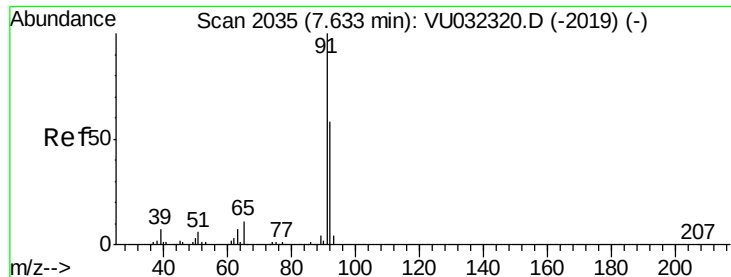
Tgt Ion: 75 Resp: 455214
 Ion Ratio Lower Upper
 75 100
 77 31.7 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 108.205 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

Tgt Ion: 43 Resp: 852667
 Ion Ratio Lower Upper
 43 100
 58 43.4 34.6 52.0
 100 18.0 14.1 21.1





#42

Toluene

Concen: 51.311 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

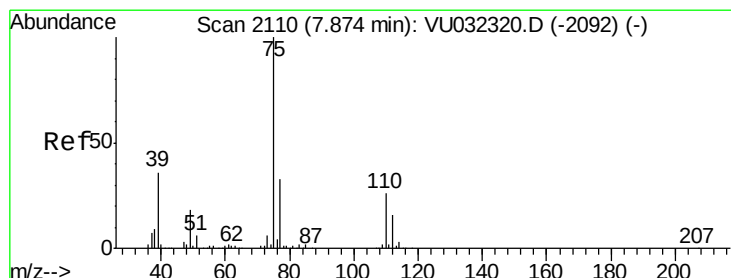
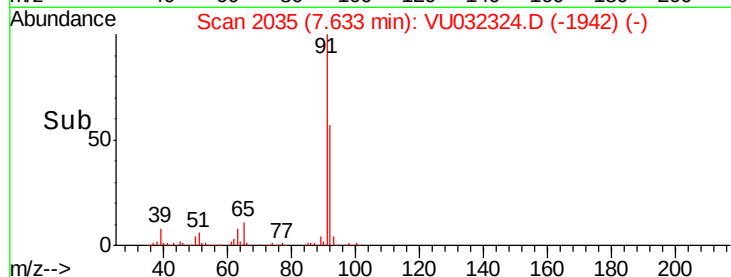
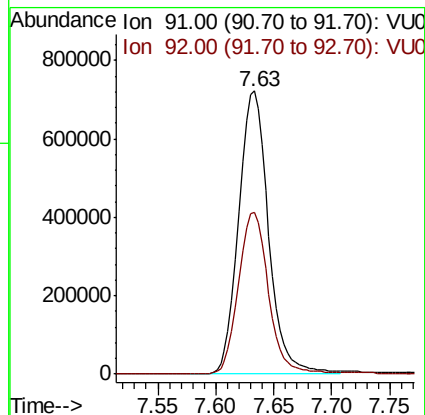
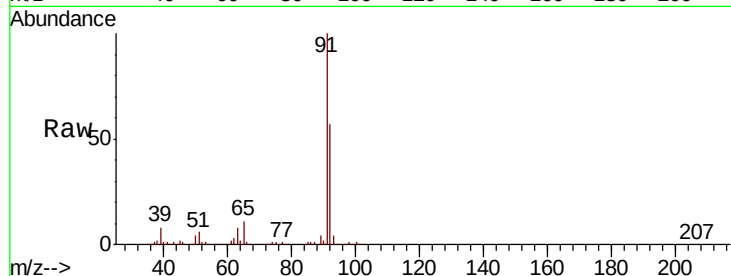
VSTD05052

Tgt Ion: 91 Resp: 1292115

Ion Ratio Lower Upper

91 100

92 57.3 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 52.135 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU032324.D

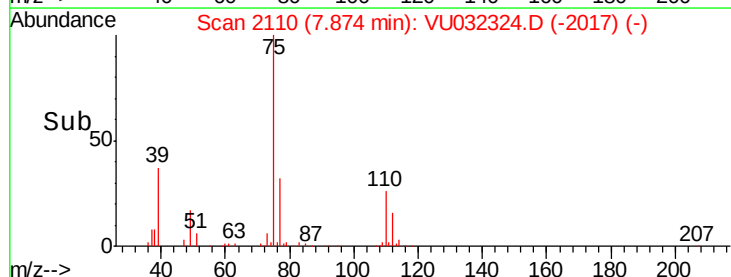
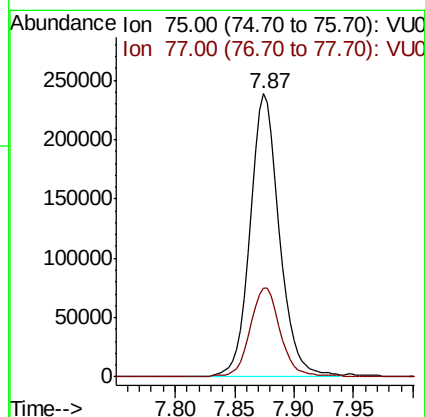
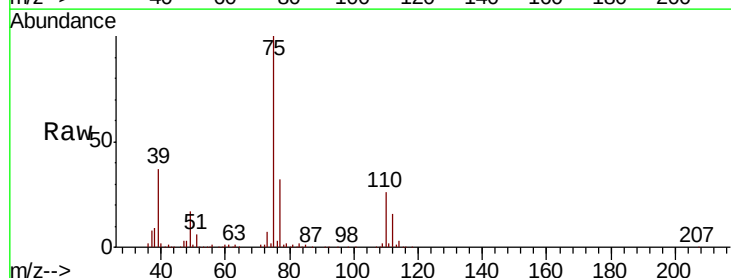
Acq: 28 May 2019 13:23

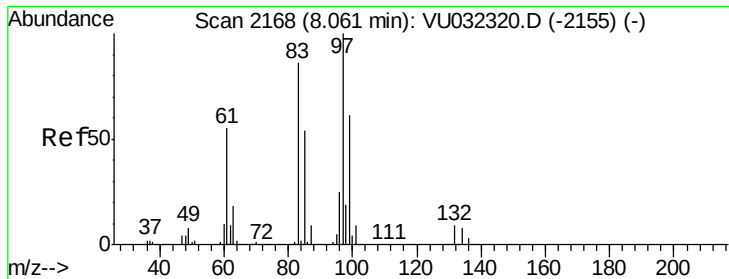
Tgt Ion: 75 Resp: 407719

Ion Ratio Lower Upper

75 100

77 31.6 23.0 42.6





#45

1,1,2-Trichloroethane

Concen: 50.097 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 97 Resp: 295924

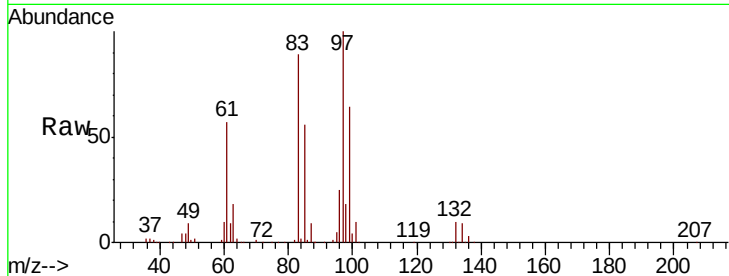
Ion Ratio Lower Upper

97 100

99 63.9 42.6 79.0

83 88.9 60.3 112.1

85 56.5 38.1 70.9

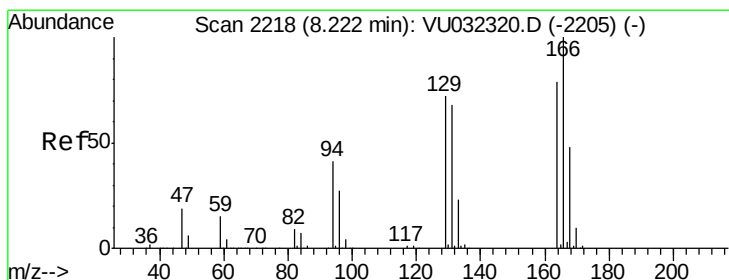
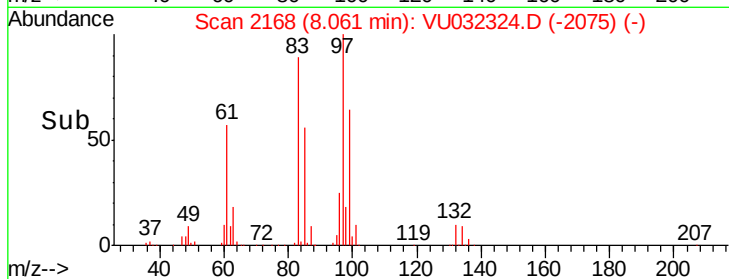
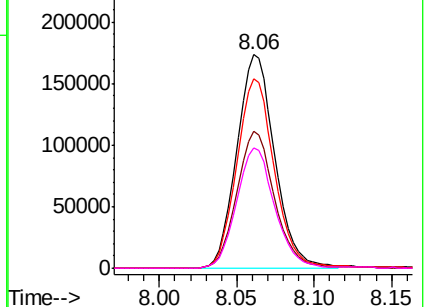


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 50.631 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Tgt Ion: 164 Resp: 245805

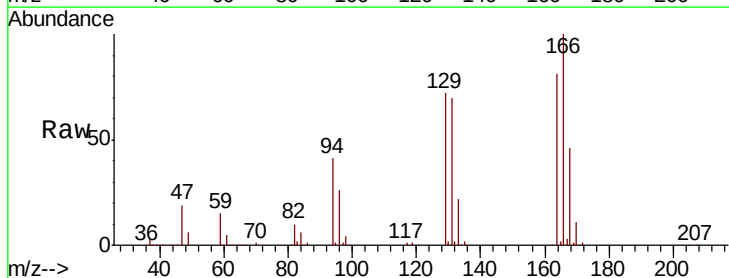
Ion Ratio Lower Upper

164 100

129 88.6 63.9 118.7

131 86.3 60.4 112.2

166 123.7 88.3 164.1

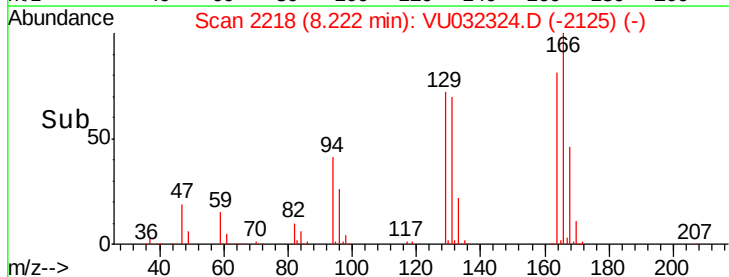
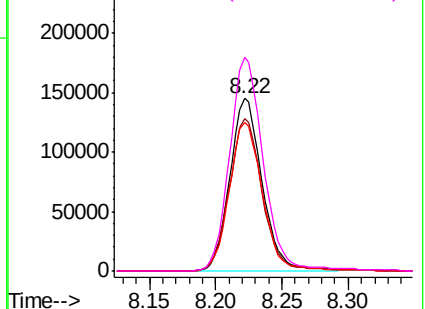


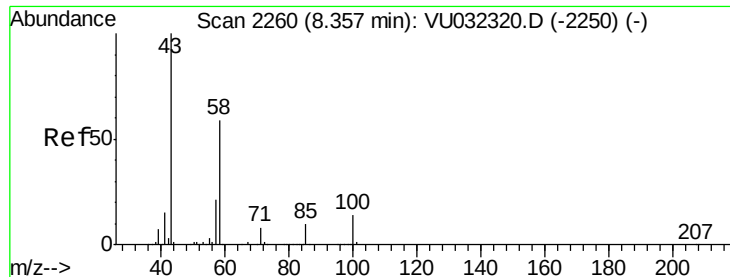
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

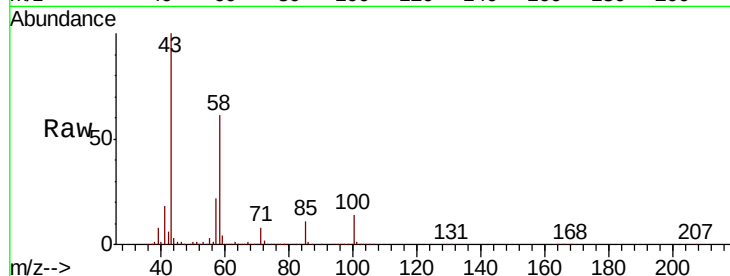




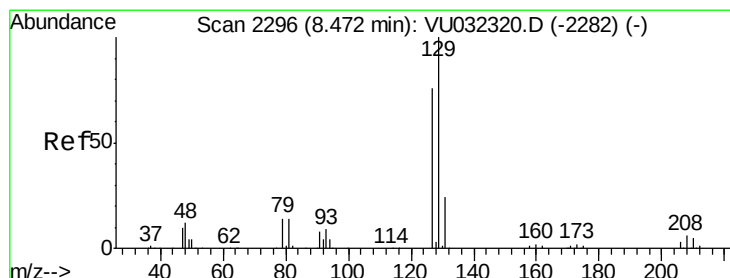
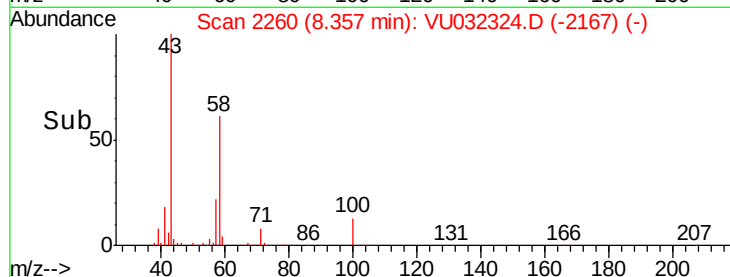
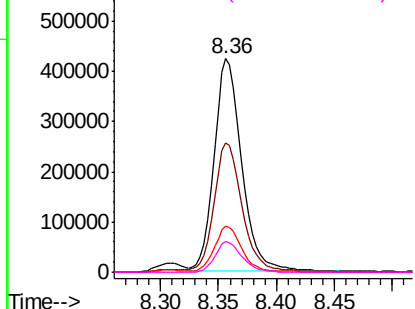
#48
2-Hexanone
Concen: 109.336 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Tgt Ion:	43	Resp:	702871
Ion	Ratio	Lower	Upper
43	100		
58	61.1	48.6	73.0
57	21.6	17.0	25.4
100	14.0	11.0	16.4

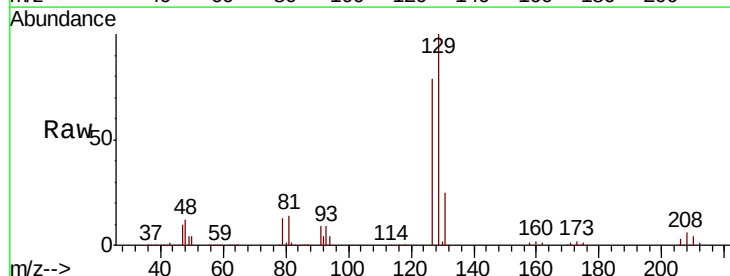


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

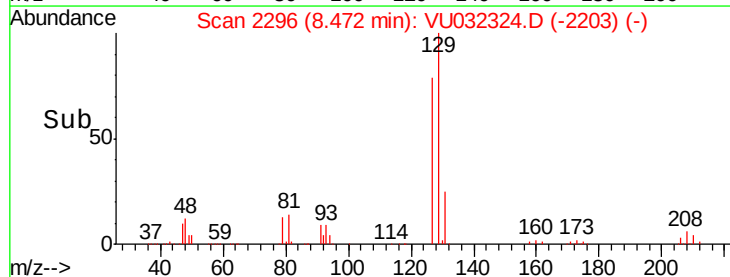
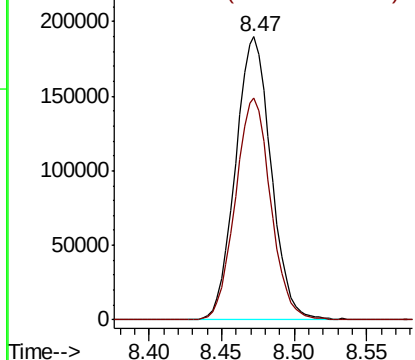


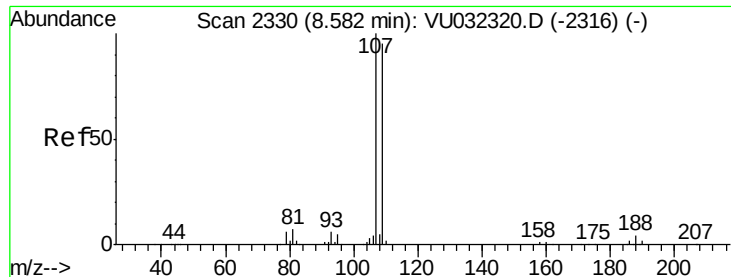
#49
Dibromochloromethane
Concen: 50.600 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

Tgt Ion:	129	Resp:	323734
Ion	Ratio	Lower	Upper
129	100		
127	78.6	53.3	99.1



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

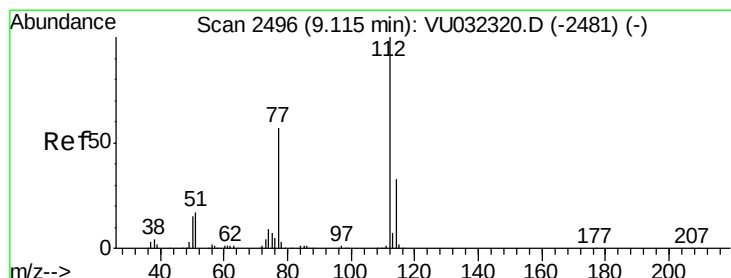
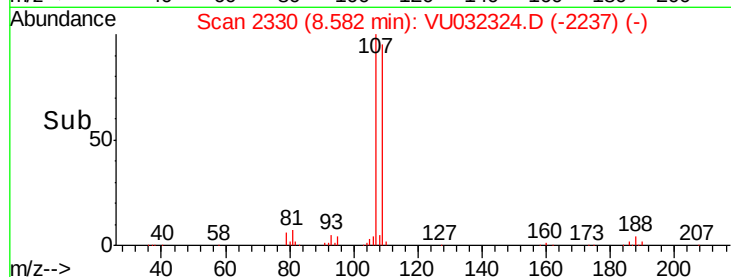
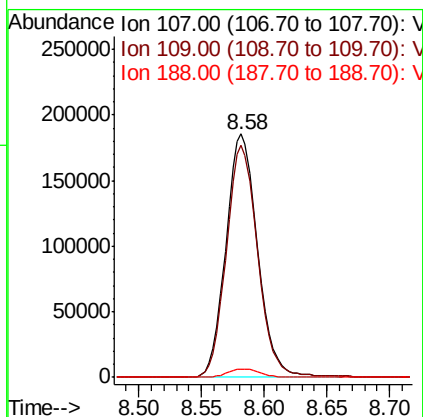
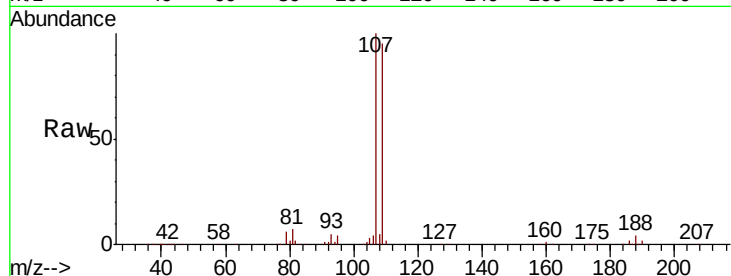




#50
1,2-Dibromoethane
Concen: 52.101 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

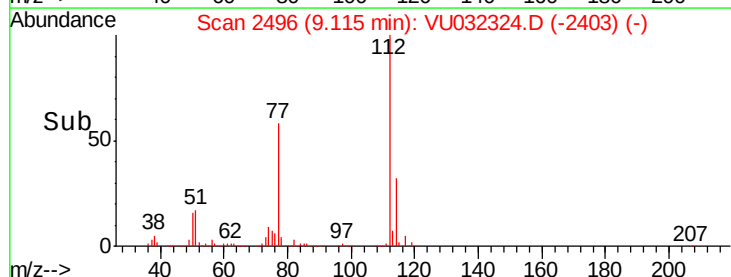
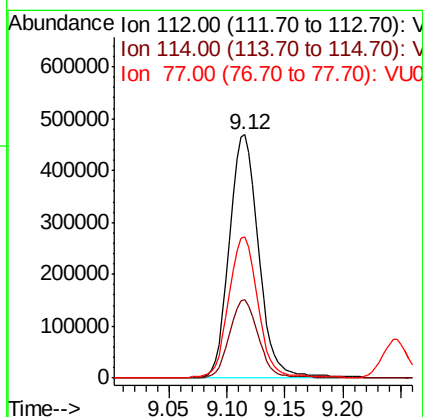
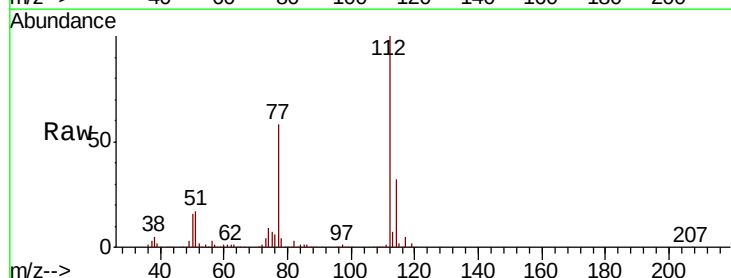
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

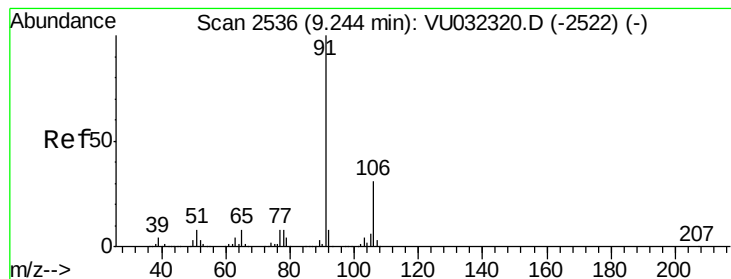
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.5	66.7	123.9
188	3.6	3.0	4.6



#51
Chlorobenzene
Concen: 50.545 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU032324.D
Acq: 28 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.9	42.5
77	58.2	45.8	68.8





#52

Ethylbenzene

Concen: 52.699 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

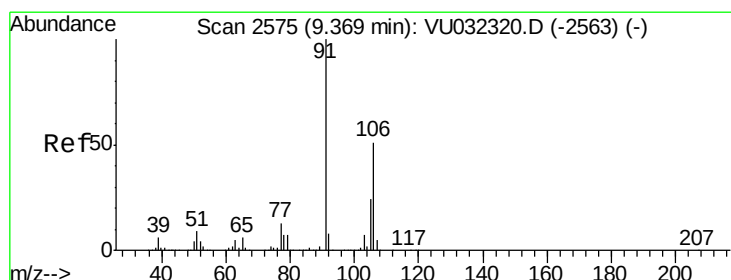
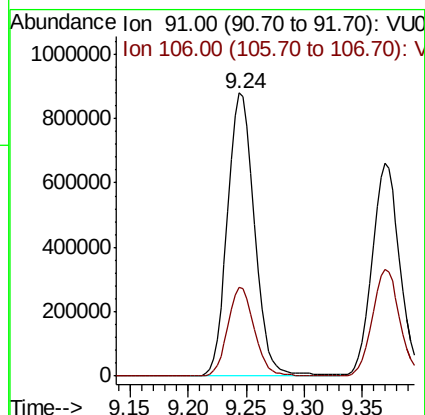
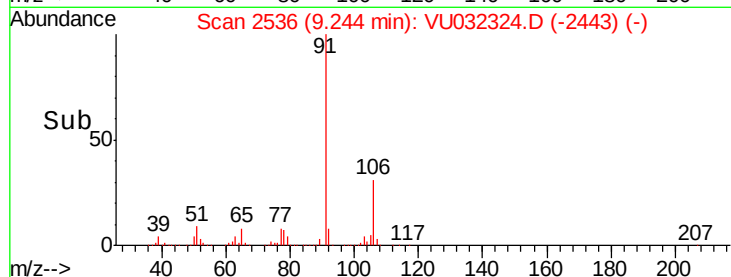
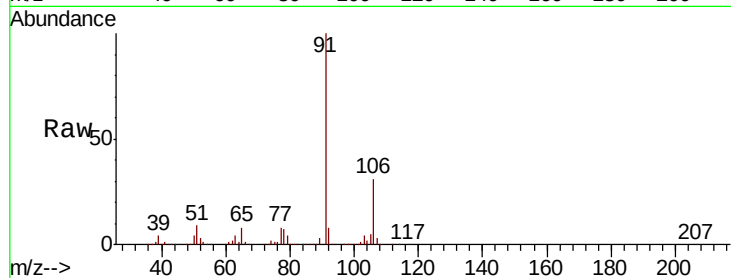
VSTD05052

Tgt Ion: 91 Resp: 1416727

Ion Ratio Lower Upper

91 100

106 31.2 22.0 40.8



#53

m,p-Xylene

Concen: 54.127 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032324.D

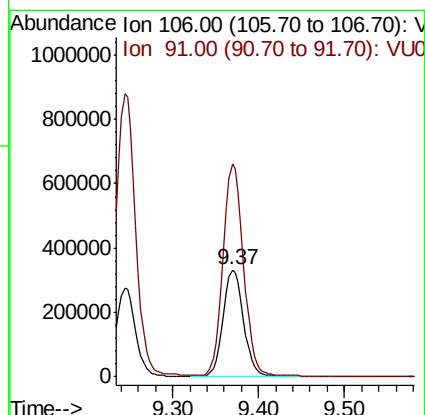
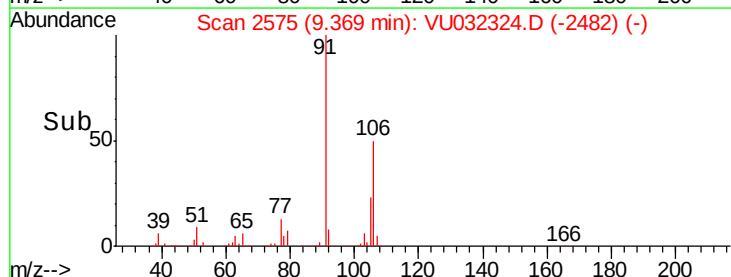
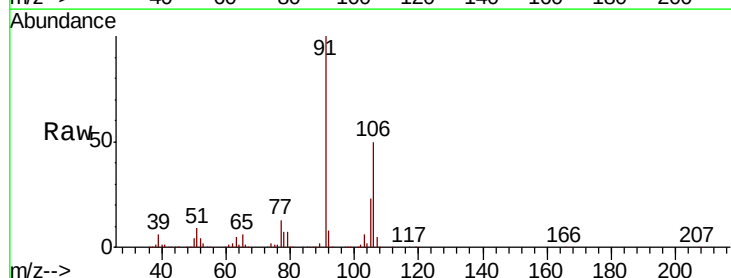
Acq: 28 May 2019 13:23

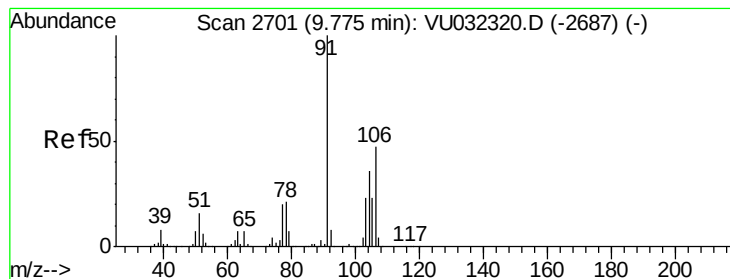
Tgt Ion: 106 Resp: 559851

Ion Ratio Lower Upper

106 100

91 198.2 138.8 257.8





#54

o-xylene

Concen: 52.915 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

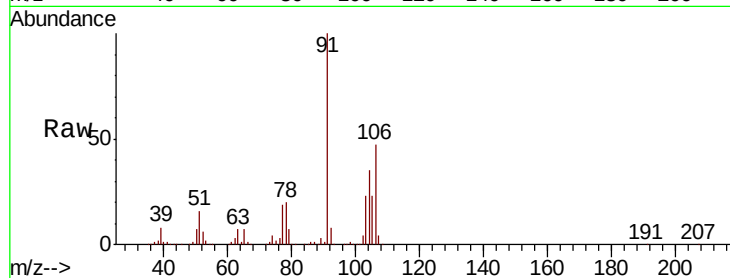
VSTD05052

Tgt Ion:106 Resp: 549319

Ion Ratio Lower Upper

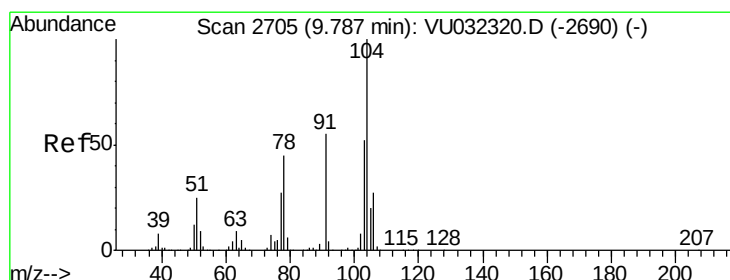
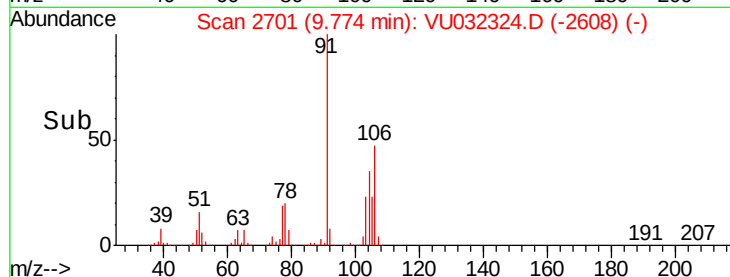
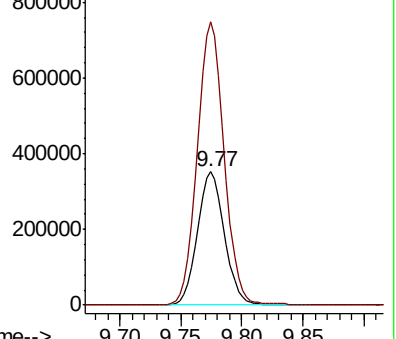
106 100

91 212.5 147.5 273.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.240 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU032324.D

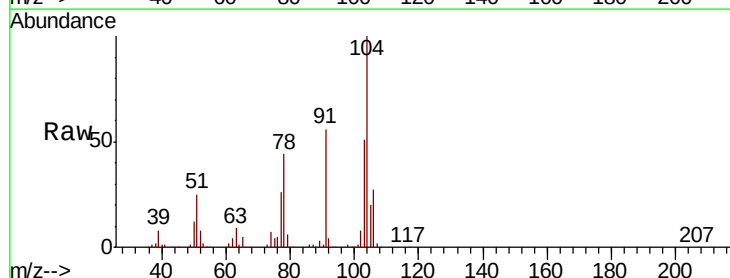
Acq: 28 May 2019 13:23

Tgt Ion:104 Resp: 944616

Ion Ratio Lower Upper

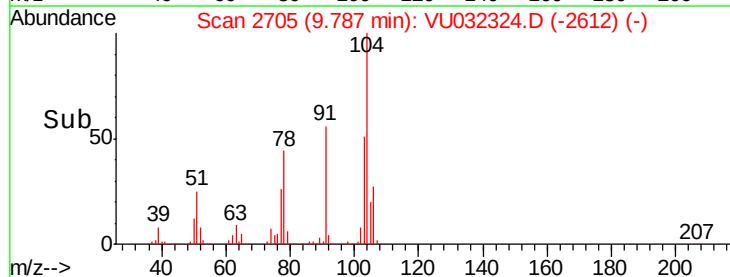
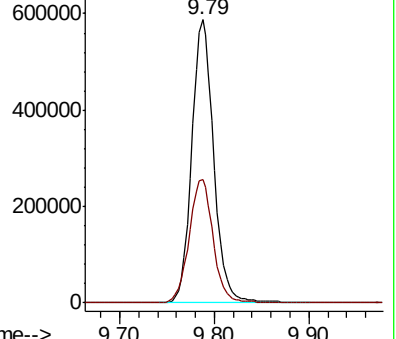
104 100

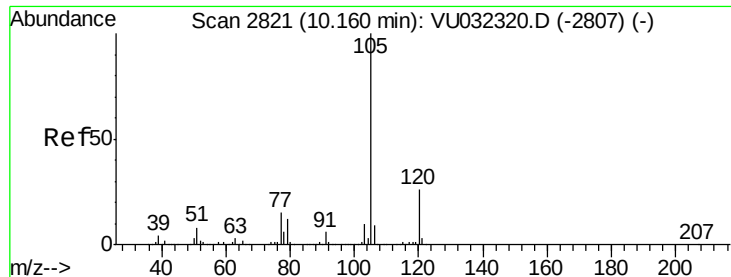
78 43.7 31.5 58.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.514 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

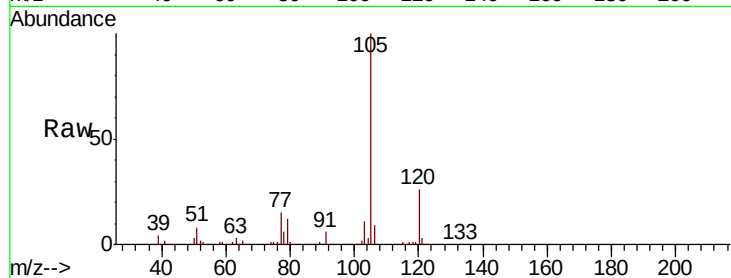
Tgt Ion:105 Resp: 1409664

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.4

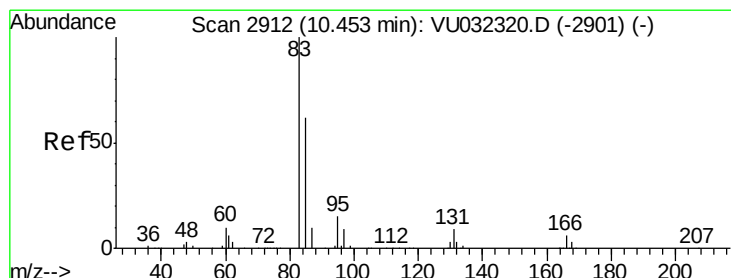
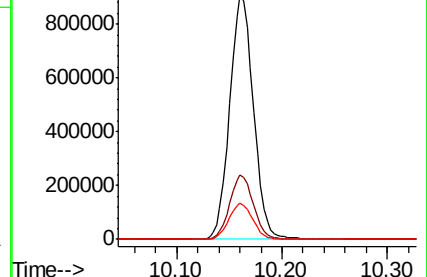
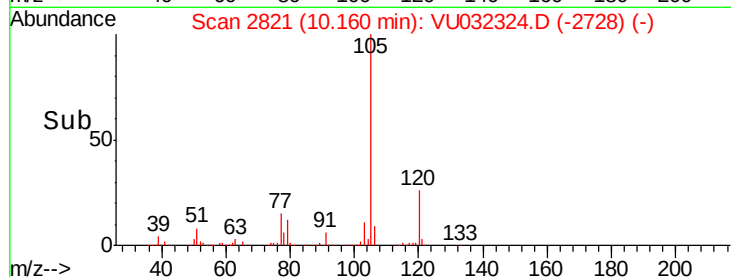
77 14.8 11.8 17.6



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: 49.638 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

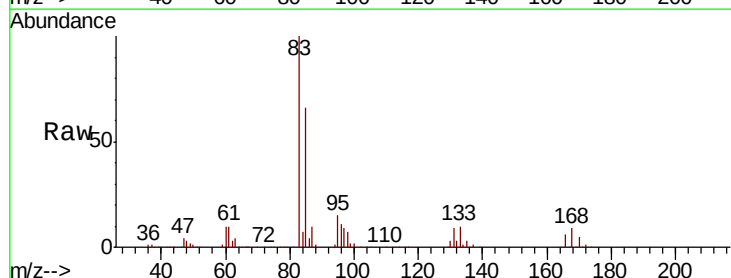
Tgt Ion: 83 Resp: 506298

Ion Ratio Lower Upper

83 100

85 65.6 44.3 82.3

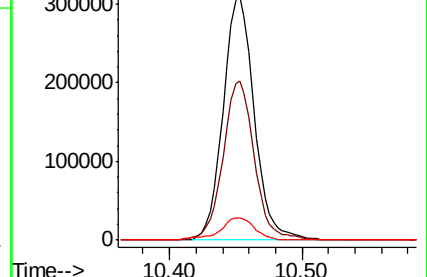
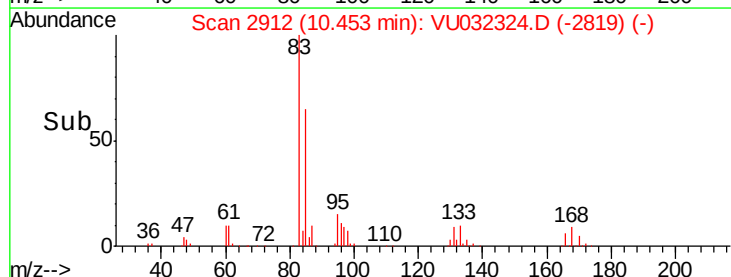
131 9.3 7.6 11.4

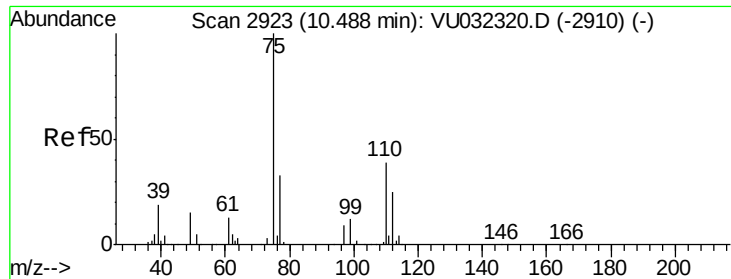


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

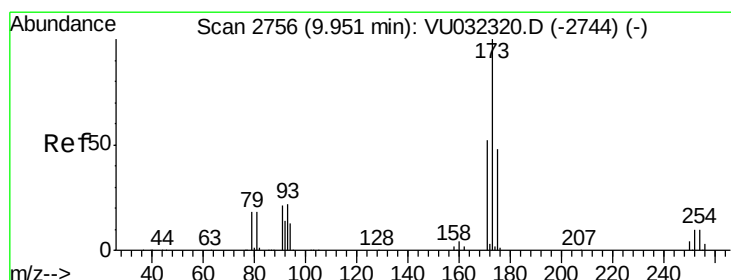
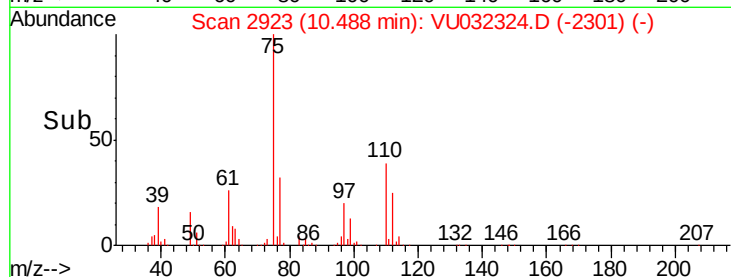
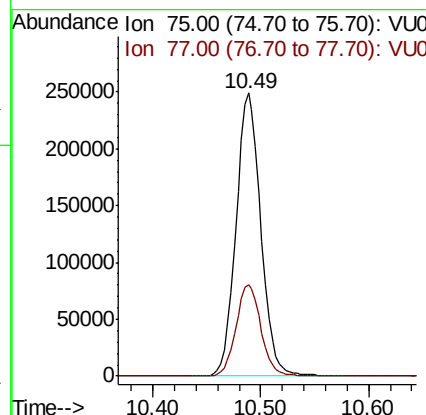
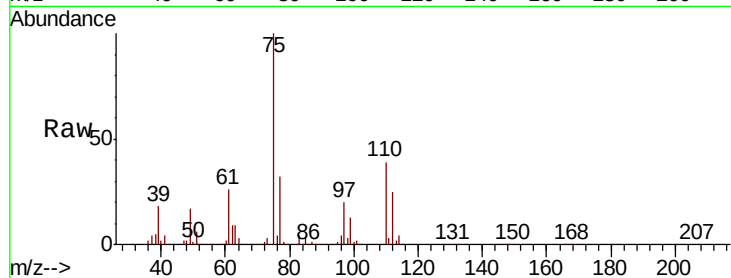




#59
 1,2,3-Trichloropropane
 Concen: 49.803 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

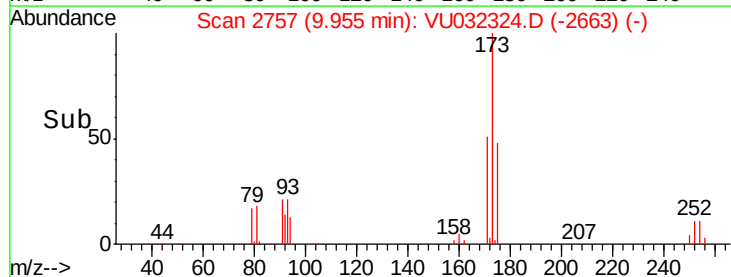
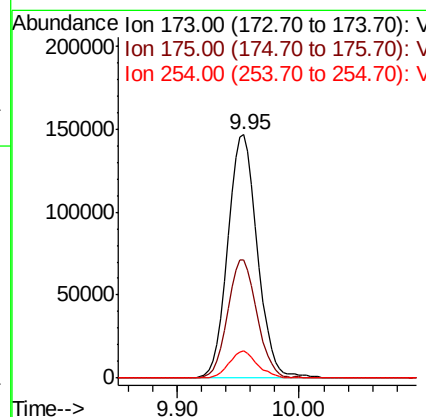
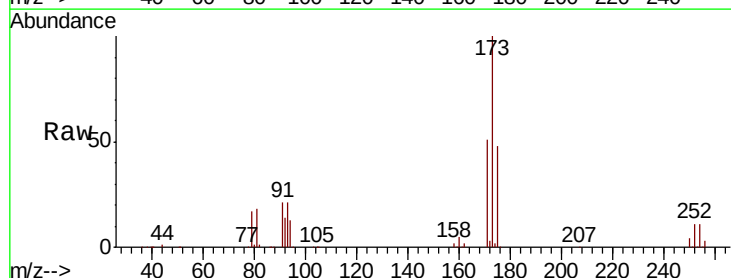
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

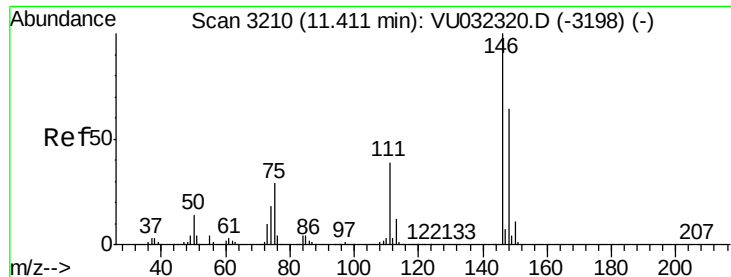
Tgt Ion: 75 Resp: 399113
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.8 38.8



#61
 Bromoform
 Concen: 47.554 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

Tgt Ion: 173 Resp: 249669
 Ion Ratio Lower Upper
 173 100
 175 47.9 38.8 58.2
 254 10.6 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 50.809 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

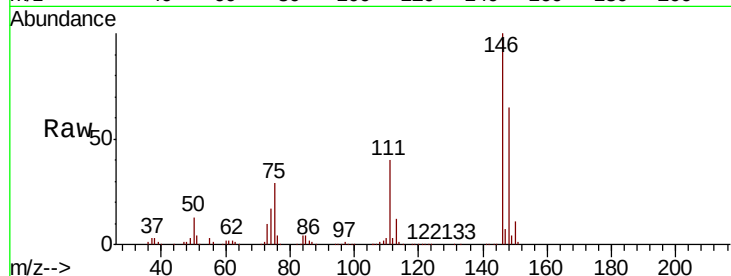
Tgt Ion:146 Resp: 641575

Ion Ratio Lower Upper

146 100

111 39.5 27.6 51.2

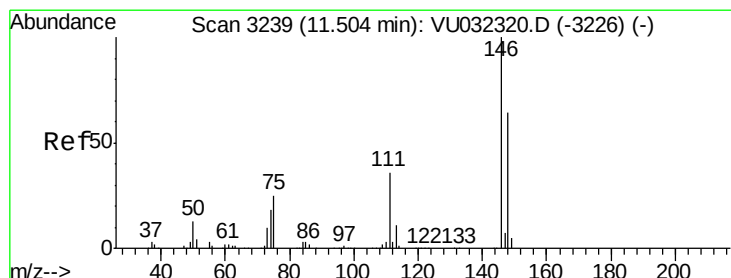
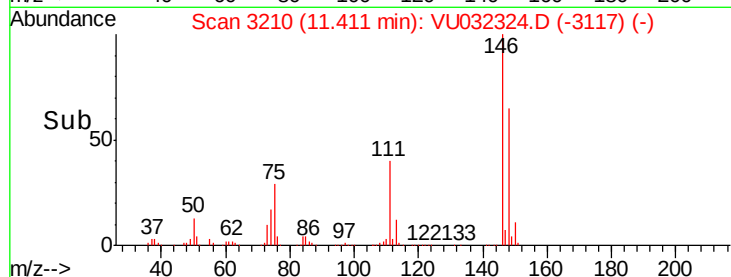
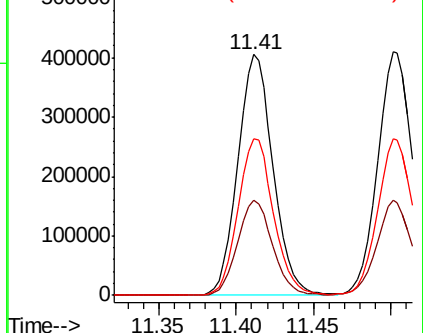
148 65.2 44.7 82.9



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



#63

1,4-Dichlorobenzene

Concen: 50.502 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

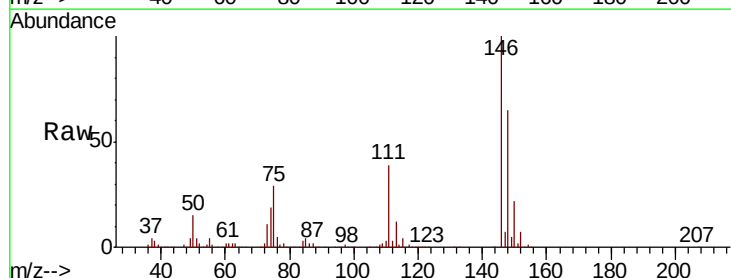
Tgt Ion:146 Resp: 658203

Ion Ratio Lower Upper

146 100

111 39.2 25.6 47.4

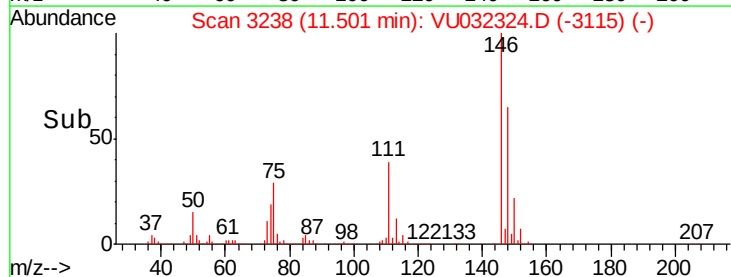
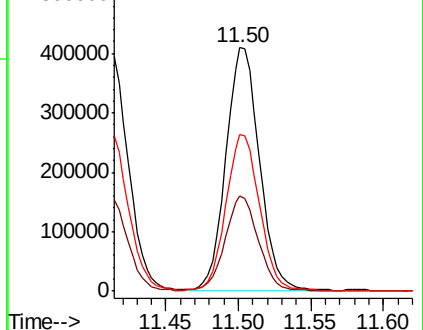
148 64.6 45.0 83.6

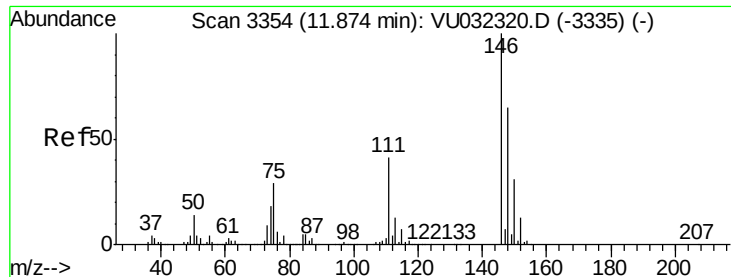


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

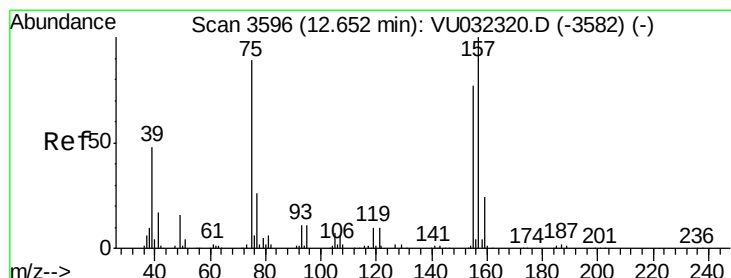
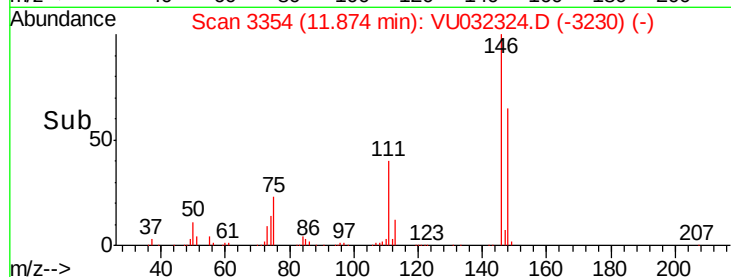
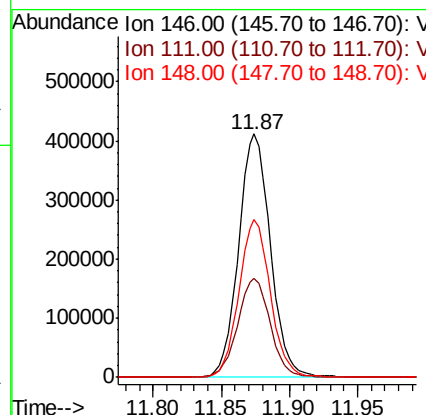
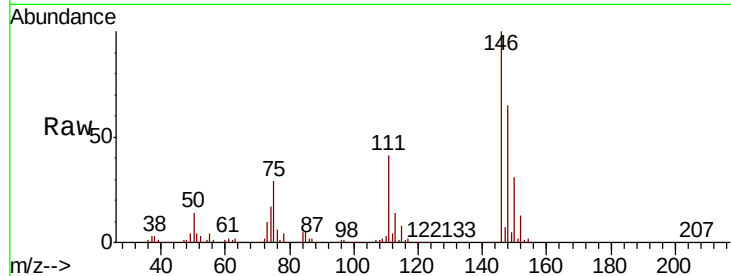




#65
 1,2-Dichlorobenzene
 Concen: 50.007 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

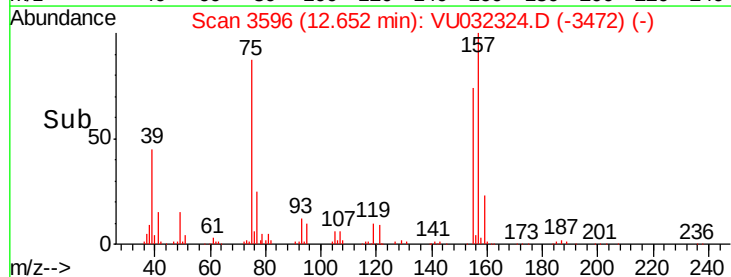
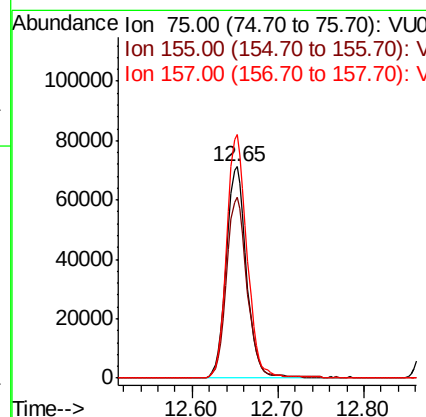
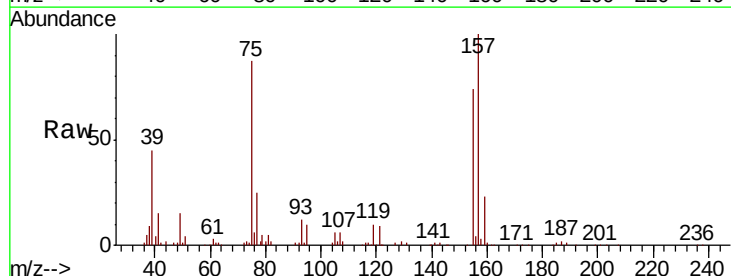
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

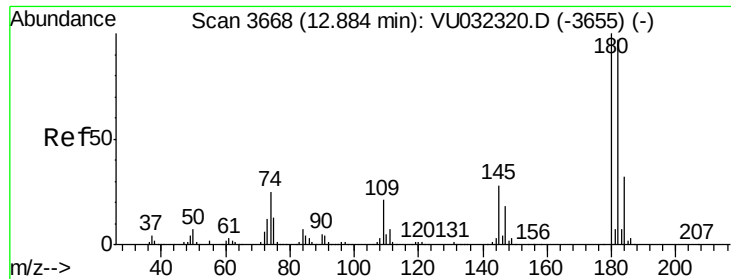
Tgt Ion:146 Resp: 664734
 Ion Ratio Lower Upper
 146 100
 111 40.8 33.1 49.7
 148 64.7 52.3 78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 54.149 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

Tgt Ion: 75 Resp: 117942
 Ion Ratio Lower Upper
 75 100
 155 85.4 69.5 104.3
 157 115.2 89.8 134.6

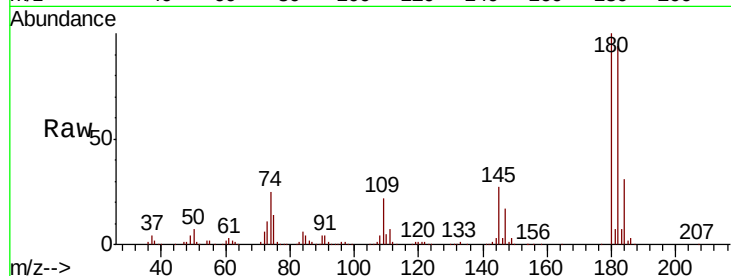




#67
 1,3,5-Trichlorobenzene
 Concen: 53.421 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:	180	Resp:	503197
Ion	Ratio	Lower	Upper
180	100		
182	94.2	78.3	117.5
184	30.1	25.0	37.4
145	27.9	22.6	33.8



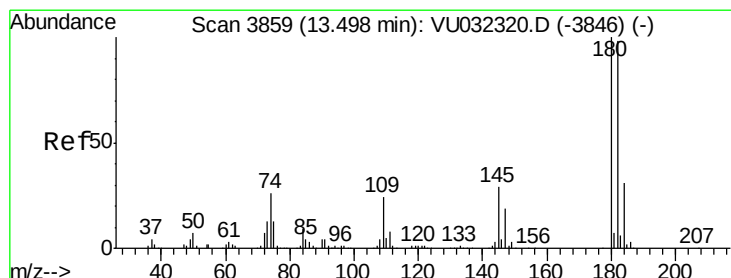
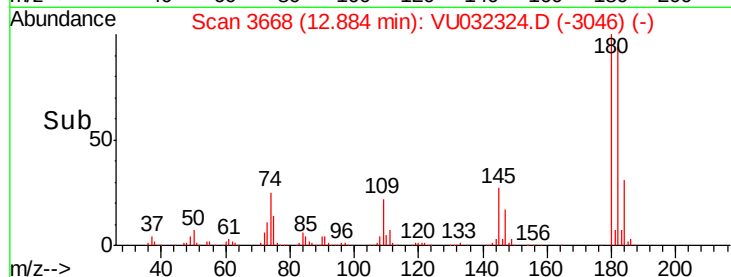
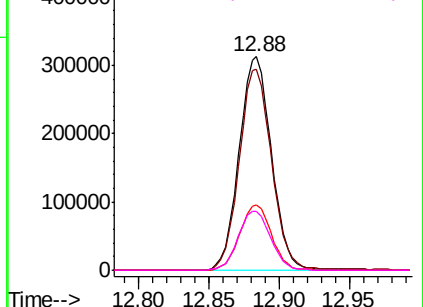
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

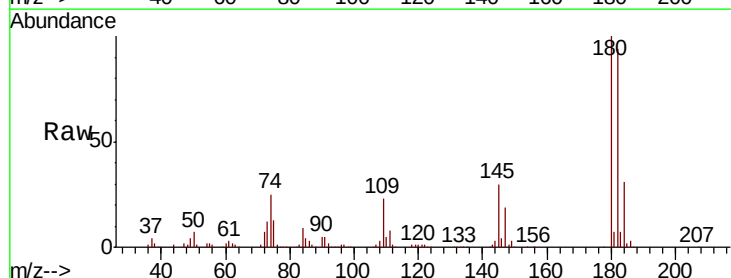
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 57.122 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU032324.D
 Acq: 28 May 2019 13:23

Tgt Ion:	180	Resp:	413472
Ion	Ratio	Lower	Upper
180	100		
182	95.6	78.2	117.4
145	28.5	23.0	34.4

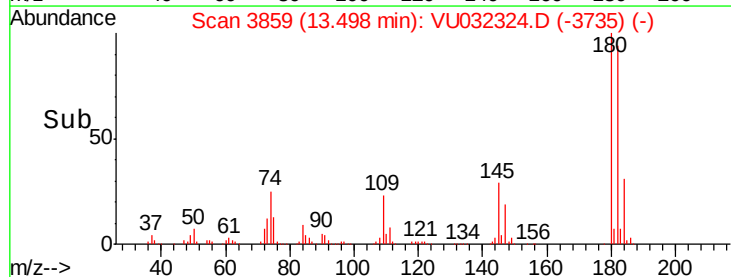
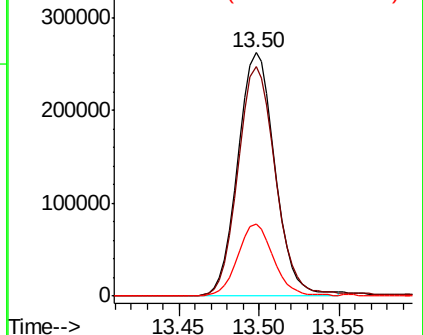


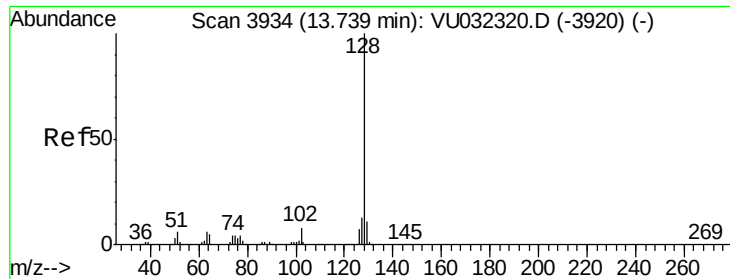
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 62.583 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

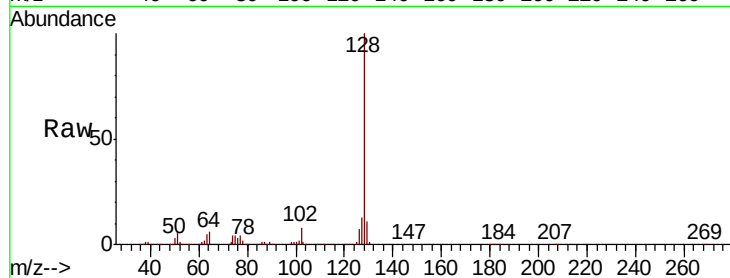
Tgt Ion:128 Resp: 1356215

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

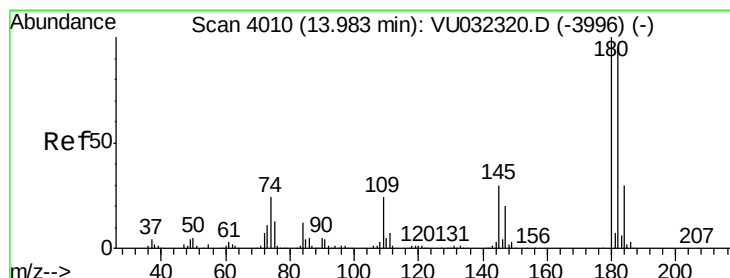
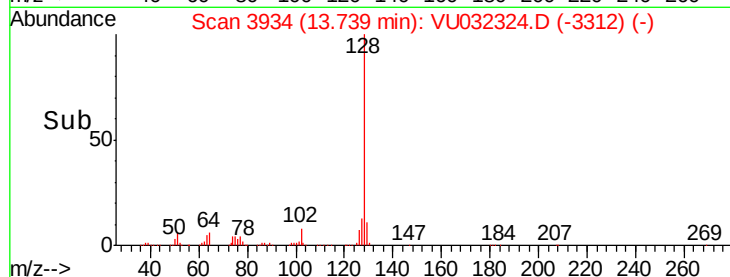
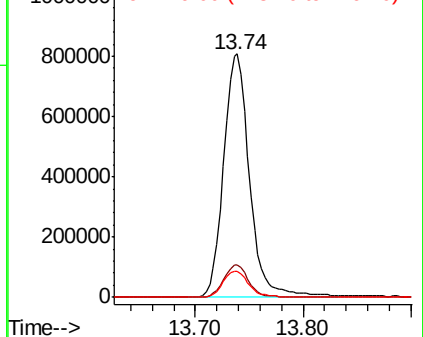
129 10.9 8.7 13.1



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: 58.118 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU032324.D

Acq: 28 May 2019 13:23

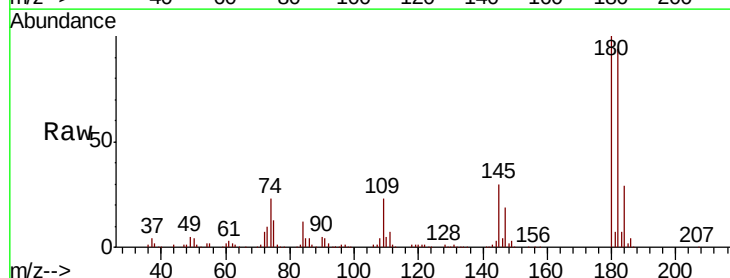
Tgt Ion:180 Resp: 455007

Ion Ratio Lower Upper

180 100

182 93.5 77.7 116.5

145 29.4 24.3 36.5



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

