

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
 Data File : VU032344.D
 Acq On : 28 May 2019 22:31
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

Quant Time: May 29 05:32:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 29 05:27:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	808294	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	784978	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	393101	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	258420	43.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.74%
7) Chloroethane-d5	1.67	69	213760	44.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.86%
11) 1,1-Dichloroethene-d2	2.27	63	474004	44.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.56%
21) 2-Butanone-d5	4.17	46	378757	96.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.60%
24) Chloroform-d	4.64	84	480915	46.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.24%
26) 1,2-Dichloroethane-d4	5.30	65	285370	46.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.48%
32) Benzene-d6	5.33	84	989250	48.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.10%
36) 1,2-Dichloropropane-d6	6.32	67	300992	47.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.20%
41) Toluene-d8	7.56	98	918268	47.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.60%
43) trans-1,3-Dichloropropene-	7.85	79	142216	48.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.18%
47) 2-Hexanone-d5	8.31	63	260861	97.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.29%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	462838	47.40	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.80%
64) 1,2-Dichlorobenzene-d4	11.85	152	374775	46.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.50%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	303786	48.440	ug/L 99
3) Chloromethane	1.32	50	310280	46.689	ug/L 99
5) Vinyl chloride	1.40	62	318429	46.983	ug/L 97
6) Bromomethane	1.61	94	208888	48.195	ug/L 99
8) Chloroethane	1.69	64	195879	47.787	ug/L 98
9) Trichlorofluoromethane	1.88	101	416968	49.052	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	243637	47.491	ug/L 98
12) 1,1-Dichloroethene	2.28	96	252589	48.277	ug/L 94
13) Acetone	2.32	43	275782	74.632	ug/L 100
14) Carbon disulfide	2.47	76	730353	46.521	ug/L 99
15) Methyl Acetate	2.61	43	283546	48.016	ug/L 100
16) Methylene chloride	2.69	84	295846	48.509	ug/L 98
17) trans-1,2-Dichloroethene	2.98	96	263500	48.887	ug/L 97
18) Methyl tert-butyl Ether	3.00	73	815576	49.977	ug/L 99
19) 1,1-Dichloroethane	3.44	63	477890	48.812	ug/L 98
20) cis-1,2-Dichloroethene	4.22	96	298810	49.458	ug/L 99
22) 2-Butanone	4.26	43	419054	94.162	ug/L 99

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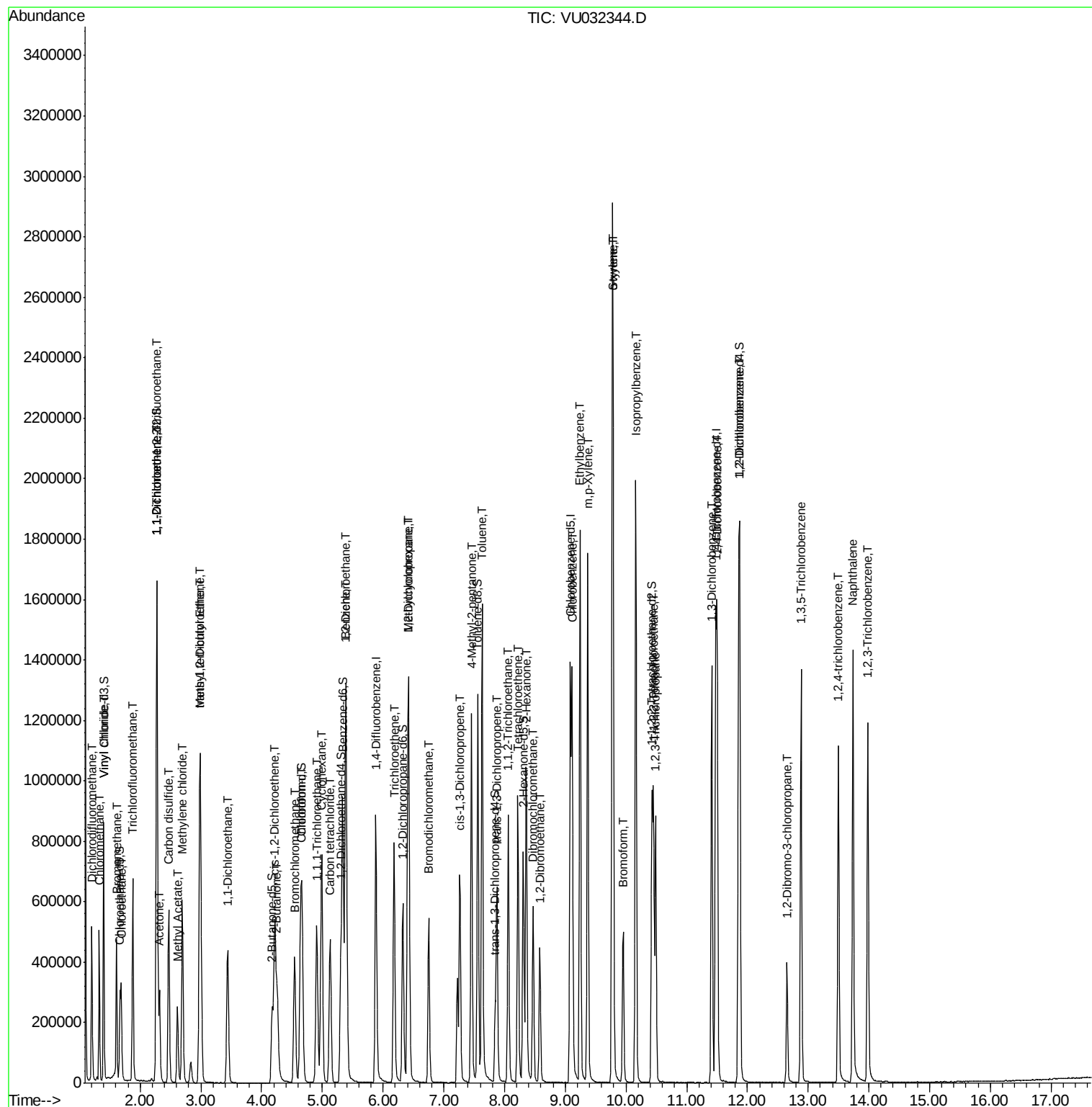
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	155160	48.673	ug/L	97
25) Chloroform	4.67	83	497673	48.871	ug/L	98
27) 1,2-Dichloroethane	5.40	62	375943	49.598	ug/L	100
29) Cyclohexane	4.99	56	414807	51.741	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	416507	50.654	ug/L	99
31) Carbon tetrachloride	5.13	117	364372	51.750	ug/L	98
33) Benzene	5.38	78	1120362	51.001	ug/L	100
34) Trichloroethene	6.18	95	290627	51.207	ug/L	97
35) Methylcyclohexane	6.41	83	434901	50.433	ug/L	99
37) 1,2-Dichloropropane	6.43	63	288840	50.341	ug/L	99
38) Bromodichloromethane	6.75	83	370870	50.297	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	432747	51.029	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	779649	104.175	ug/L	99
42) Toluene	7.63	91	1232805	51.547	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	380887	51.282	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	290797	51.835	ug/L	98
46) Tetrachloroethene	8.22	164	232401	50.403	ug/L	98
48) 2-Hexanone	8.36	43	626636	102.636	ug/L	99
49) Dibromochloromethane	8.47	129	307577	50.619	ug/L	96
50) 1,2-Dibromoethane	8.58	107	307517	51.965	ug/L	97
51) Chlorobenzene	9.12	112	766940	49.737	ug/L	99
52) Ethylbenzene	9.24	91	1333188	52.216	ug/L	99
53) m,p-Xylene	9.37	106	521725	53.111	ug/L	98
54) o-xylene	9.77	106	515750	52.311	ug/L	97
55) Styrene	9.79	104	895370	54.133	ug/L	98
56) Isopropylbenzene	10.16	105	1324592	52.946	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	482538	49.813	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	377291	49.571	ug/L	100
61) Bromoform	9.95	173	238789	47.691	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	607858	50.477	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	621216	49.980	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	633545	49.976	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	104389	50.255	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	461991	51.430	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	379772	55.016	ug/L	98
69) Naphthalene	13.74	128	1222550	59.156	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	416868	55.833	ug/L	97

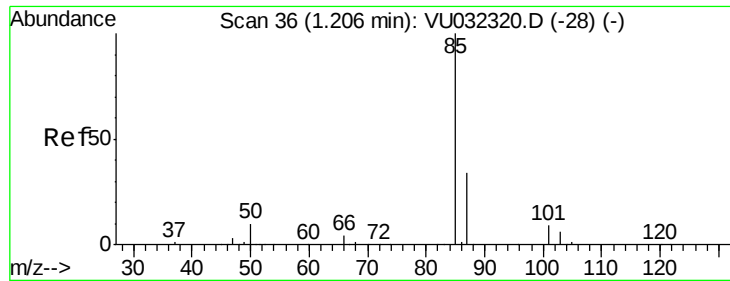
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.440 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

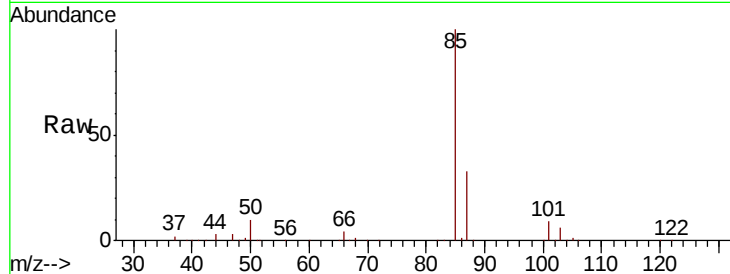
VSTD05053

Tgt Ion: 85 Resp: 303786

Ion Ratio Lower Upper

85 100

87 32.8 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

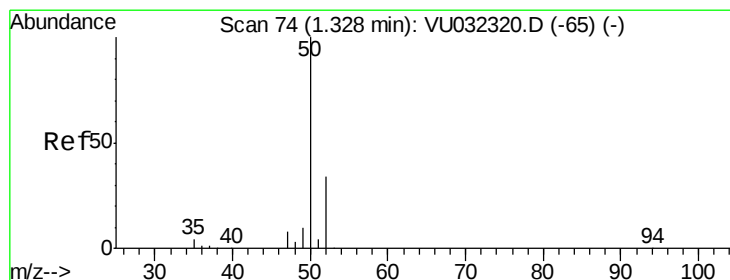
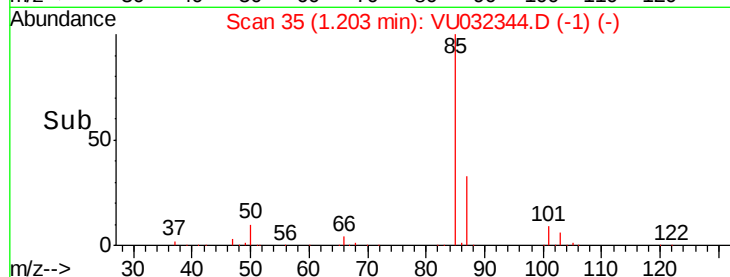
200000

100000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 46.689 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032344.D

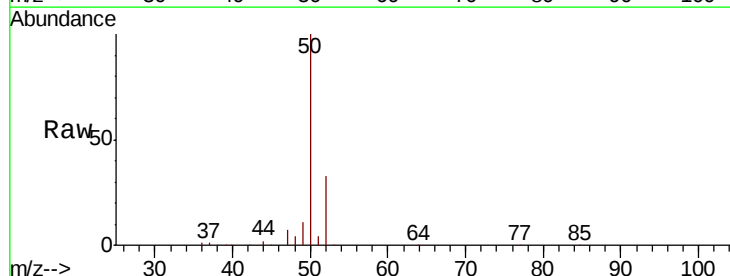
Acq: 28 May 2019 22:31

Tgt Ion: 50 Resp: 310280

Ion Ratio Lower Upper

50 100

52 33.0 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

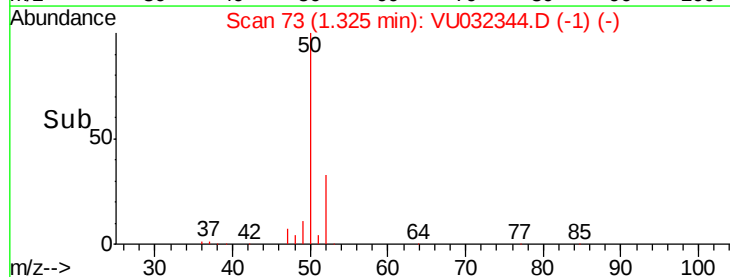
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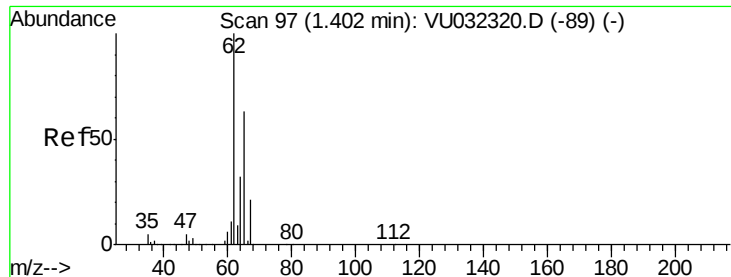
100000

0

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 46.983 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

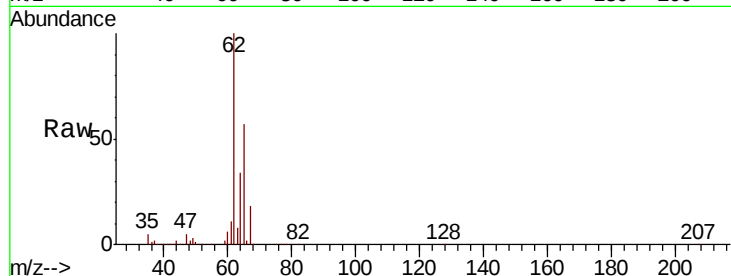
VSTD05053

Tgt Ion: 62 Resp: 318429

Ion Ratio Lower Upper

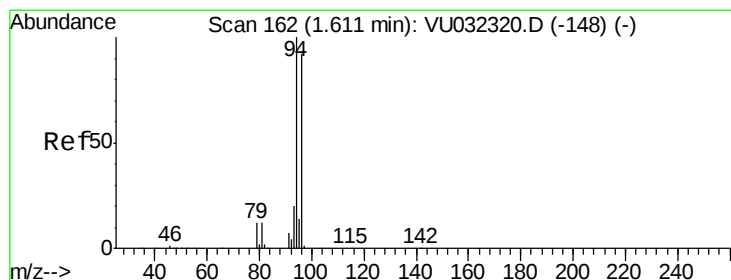
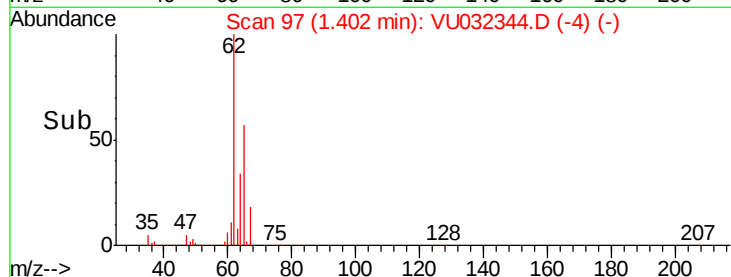
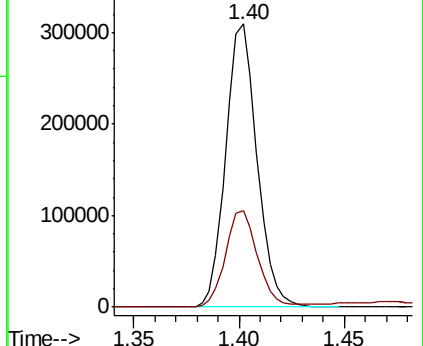
62 100

64 34.2 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU032320.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032320.D (-89) (-)



#6

Bromomethane

Concen: 48.195 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU032344.D

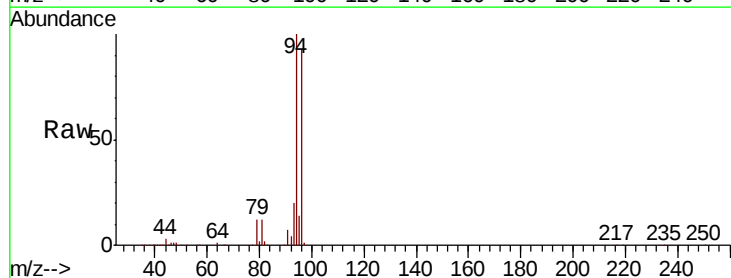
Acq: 28 May 2019 22:31

Tgt Ion: 94 Resp: 208888

Ion Ratio Lower Upper

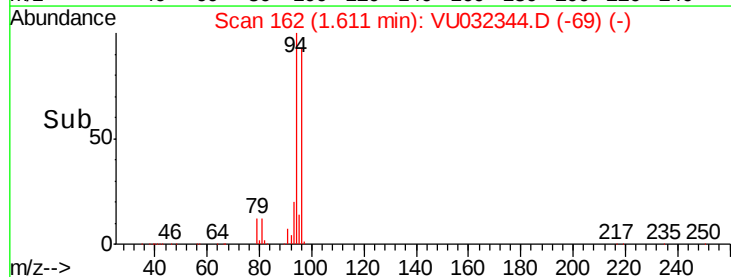
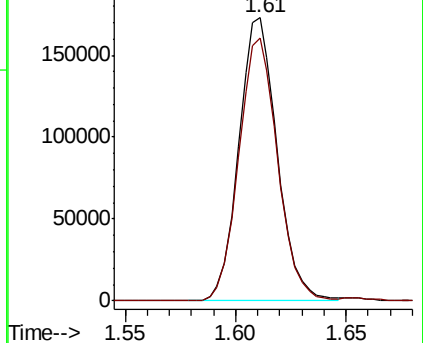
94 100

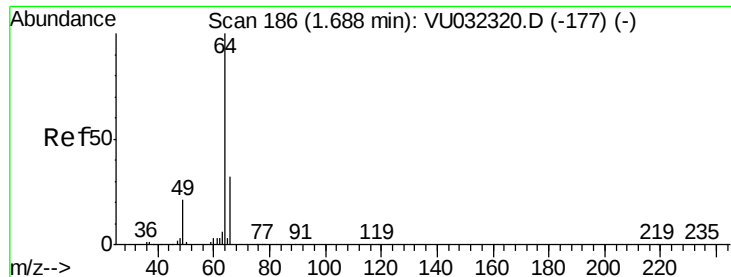
96 92.9 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU032320.D (-148) (-)

Ion 96.00 (95.70 to 96.70): VU032320.D (-148) (-)





#8

Chloroethane

Concen: 47.787 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

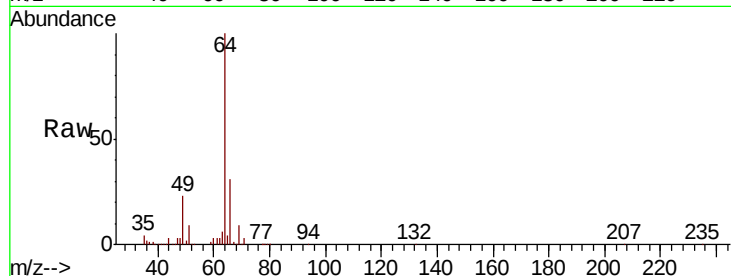
VSTD05053

Tgt Ion: 64 Resp: 195879

Ion Ratio Lower Upper

64 100

66 31.1 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU032320.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU032320.D (-177) (-)

1.69

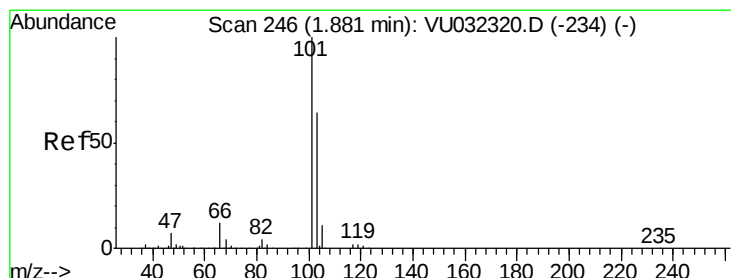
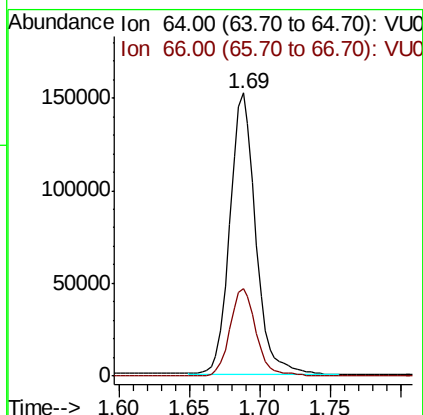
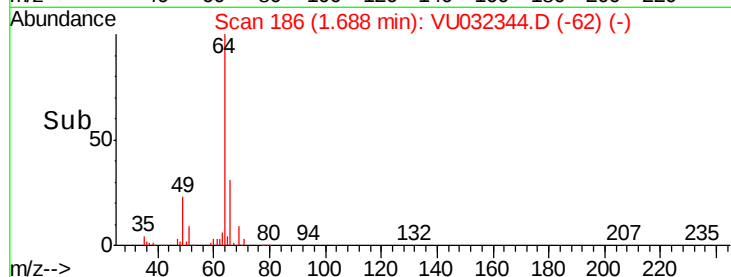
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 49.052 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU032344.D

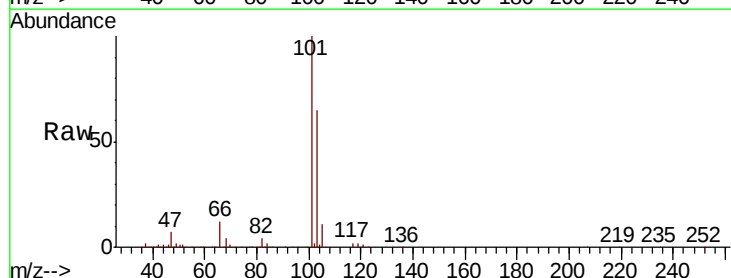
Acq: 28 May 2019 22:31

Tgt Ion: 101 Resp: 416968

Ion Ratio Lower Upper

101 100

103 64.3 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU032320.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032320.D (-234) (-)

1.88

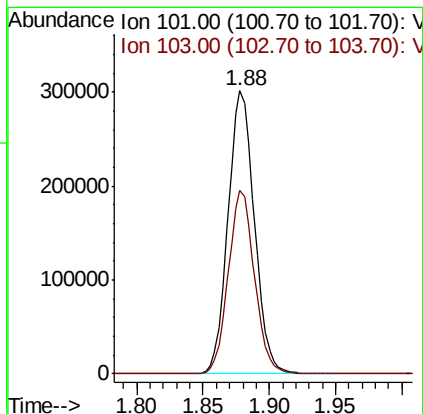
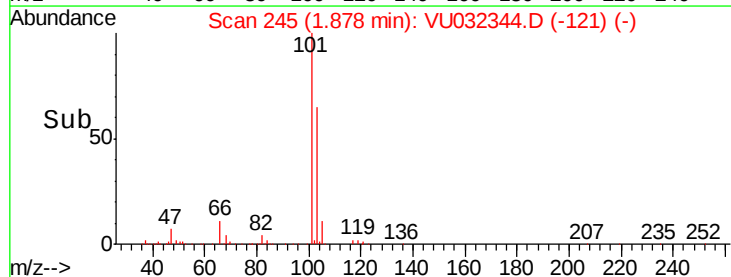
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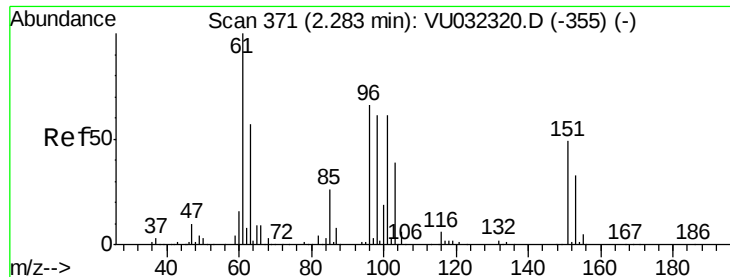
200000

100000

0

Time-->





#10

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

Concen: 47.491 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

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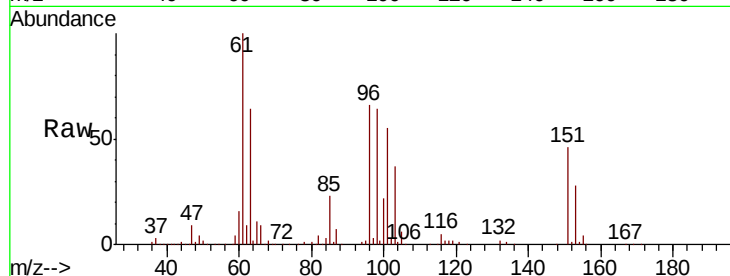
Tgt Ion: 101 Resp: 243637

Ion Ratio Lower Upper

101 100

85 42.1 33.4 50.0

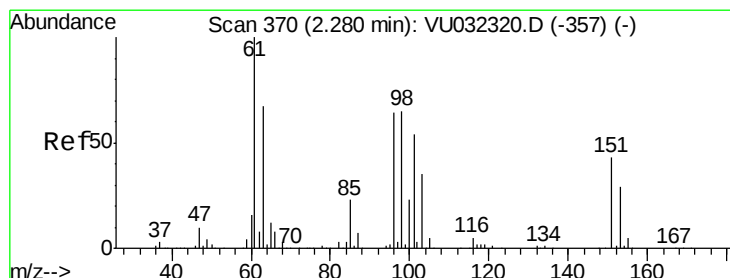
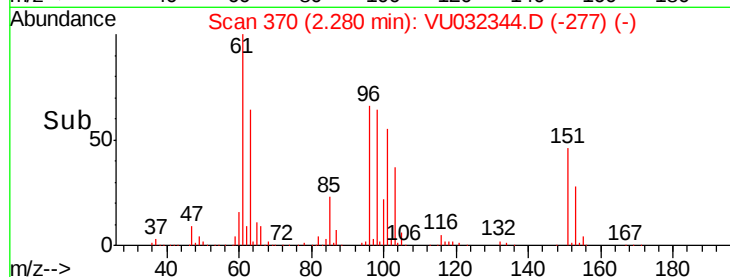
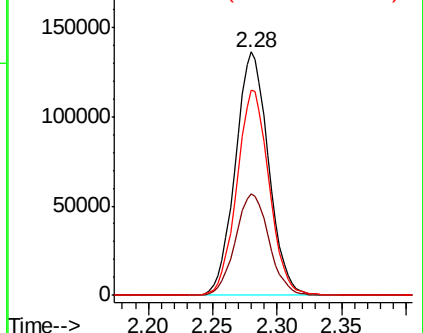
151 81.9 63.7 95.5



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: 48.277 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

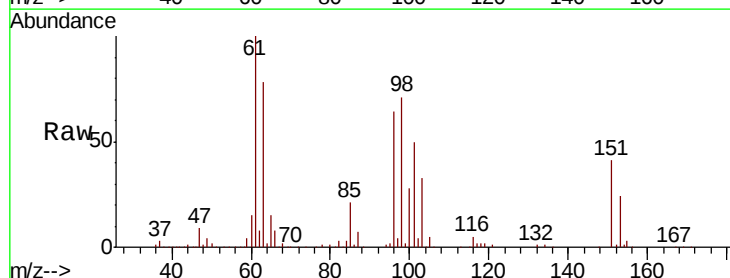
Tgt Ion: 96 Resp: 252589

Ion Ratio Lower Upper

96 100

61 156.2 109.8 203.8

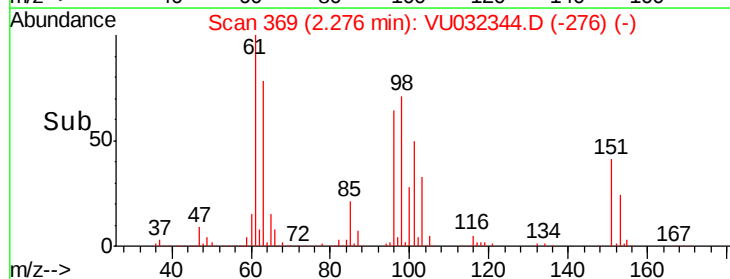
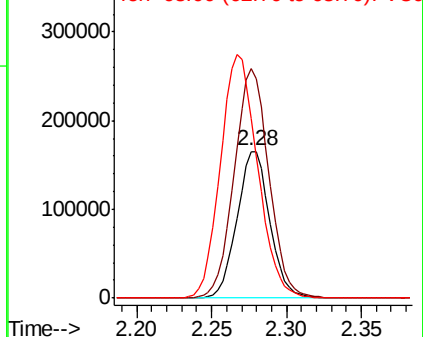
63 121.9 74.4 138.2

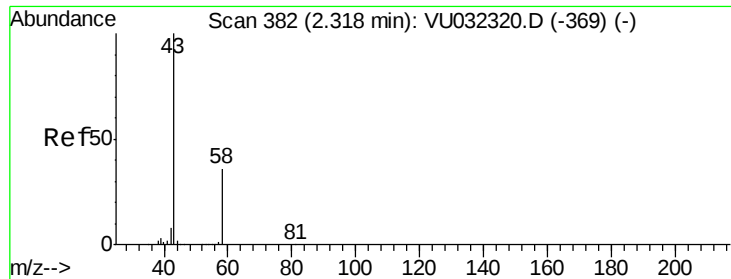


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 74.632 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

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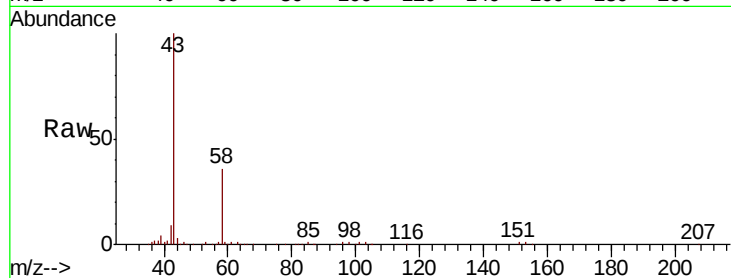
VSTD05053

Tgt Ion: 43 Resp: 275782

Ion Ratio Lower Upper

43 100

58 36.5 0.0 73.6



Abundance Ion 43.00 (42.70 to 43.70): VU032320.D (-369) (-)

Ion 58.00 (57.70 to 58.70): VU032320.D (-369) (-)

2.32

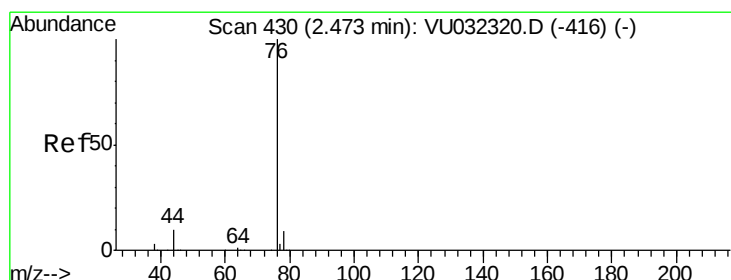
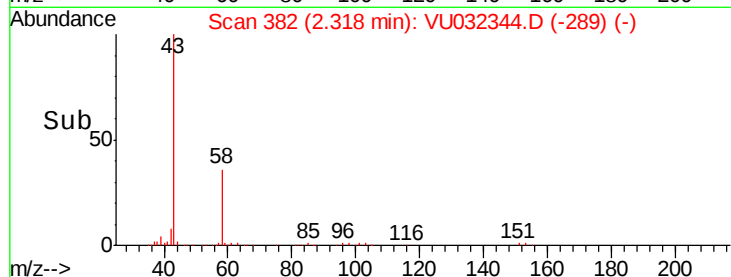
150000

100000

50000

0

Time--> 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 46.521 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032344.D

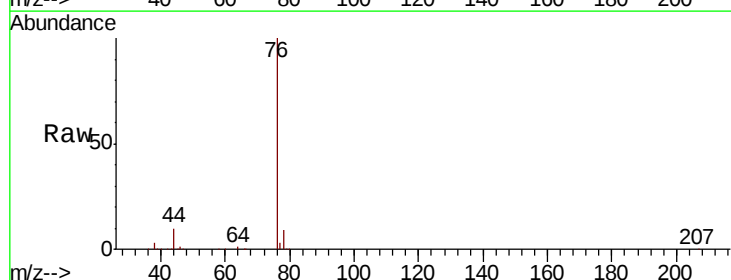
Acq: 28 May 2019 22:31

Tgt Ion: 76 Resp: 730353

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU032320.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU032320.D (-416) (-)

2.47

500000

400000

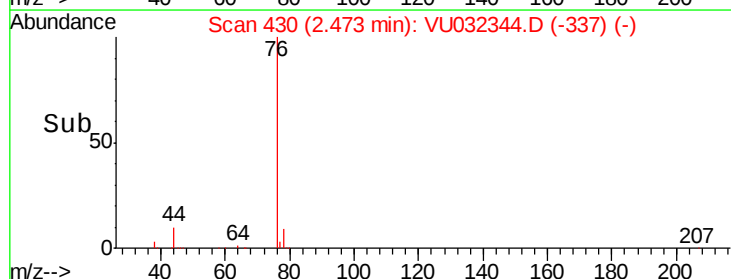
300000

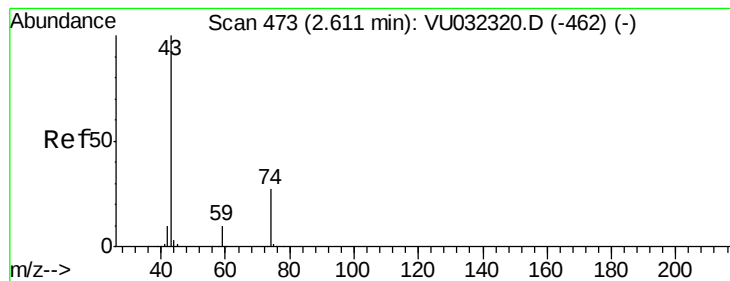
200000

100000

0

Time--> 2.40 2.45 2.50 2.55





#15

Methyl Acetate

Concen: 48.016 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

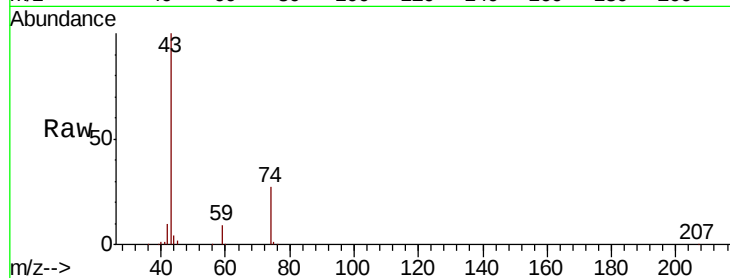
VSTD05053

Tgt Ion: 43 Resp: 283546

Ion Ratio Lower Upper

43 100

74 26.6 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VU032320.D (-462) (-)

Ion 74.00 (73.70 to 74.70): VU032320.D (-462) (-)

2.61

150000

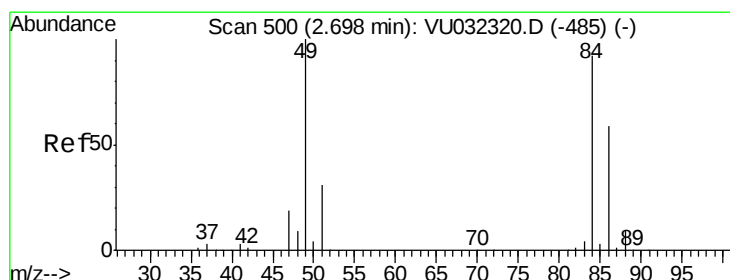
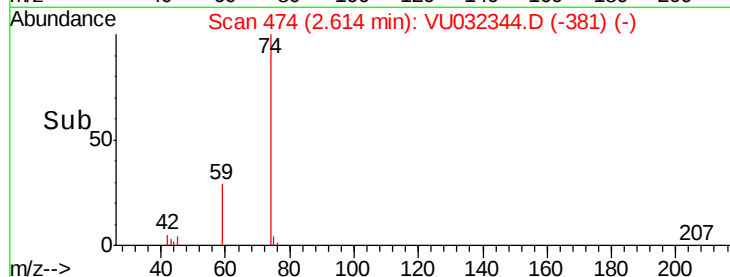
100000

50000

0

2.55 2.60 2.65 2.70

Time-->



#16

Methylene chloride

Concen: 48.509 ug/L

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

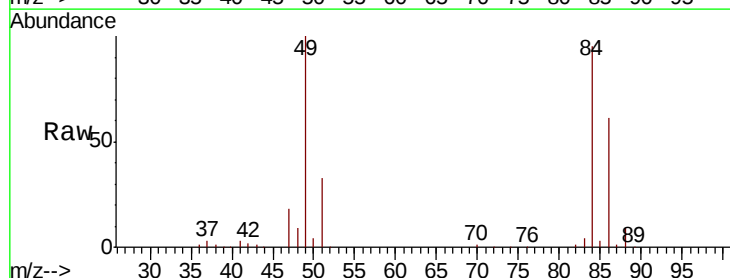
Tgt Ion: 84 Resp: 295846

Ion Ratio Lower Upper

84 100

86 64.3 45.0 83.6

49 105.6 75.9 140.9



Abundance Ion 84.00 (83.70 to 84.70): VU032320.D (-485) (-)

Ion 86.00 (85.70 to 86.70): VU032320.D (-485) (-)

Ion 49.00 (48.70 to 49.70): VU032320.D (-485) (-)

2.69

200000

150000

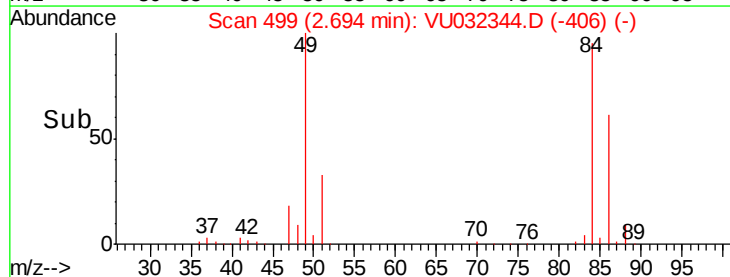
100000

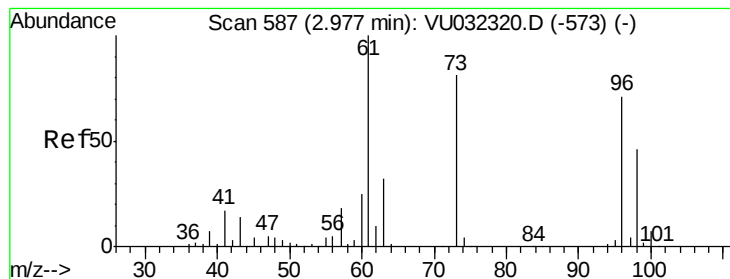
50000

0

2.60 2.65 2.70 2.75 2.80

Time-->





#17

trans-1,2-Dichloroethene

Concen: 48.887 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

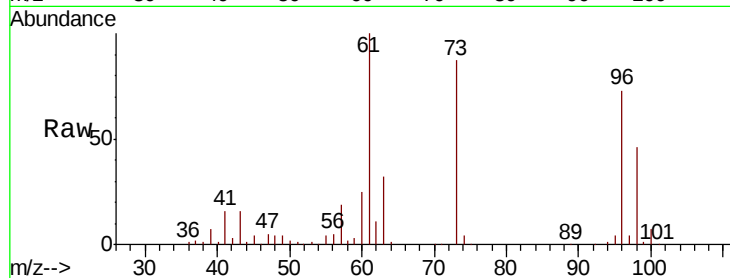
Tgt Ion: 96 Resp: 263500

Ion Ratio Lower Upper

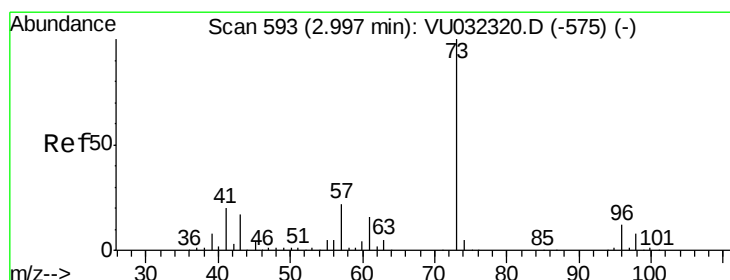
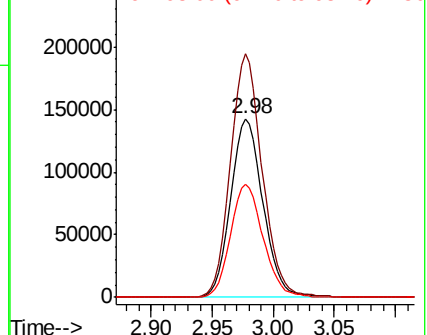
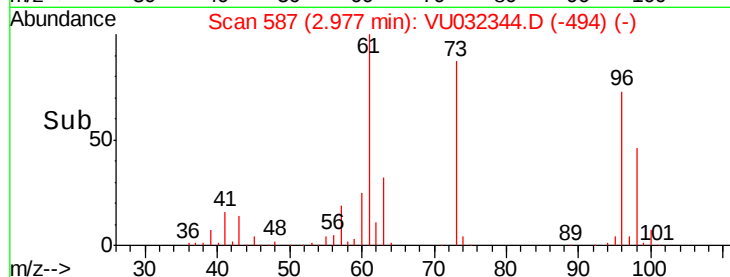
96 100

61 136.5 98.2 182.4

98 63.3 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU032344.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 49.977 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

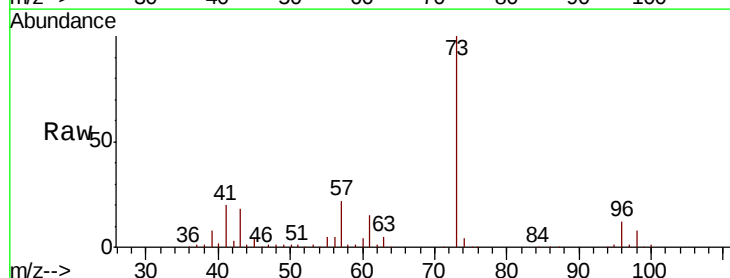
Tgt Ion: 73 Resp: 815576

Ion Ratio Lower Upper

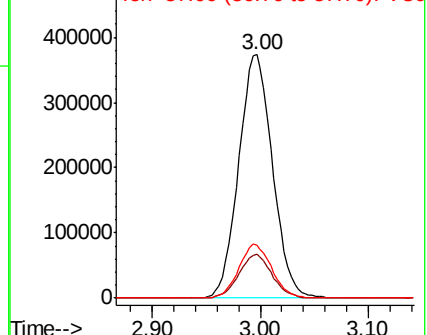
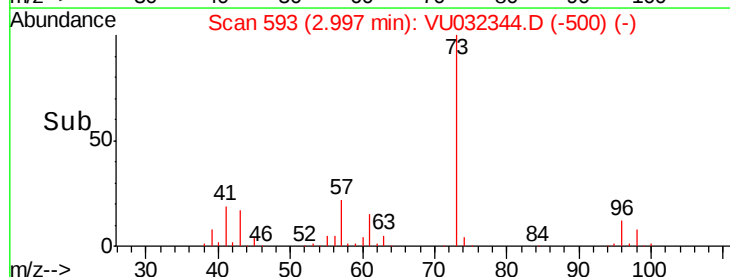
73 100

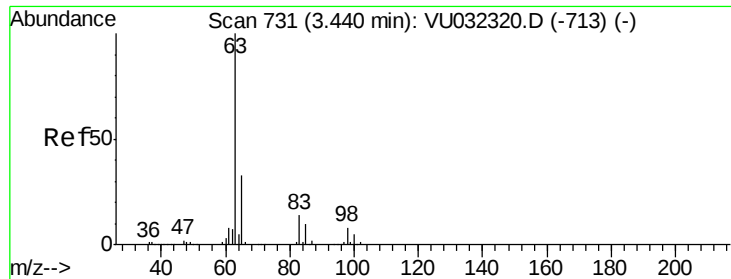
43 17.6 13.7 20.5

57 21.6 17.2 25.8



Abundance Ion 73.00 (72.70 to 73.70): VU032344.D (-500) (-)

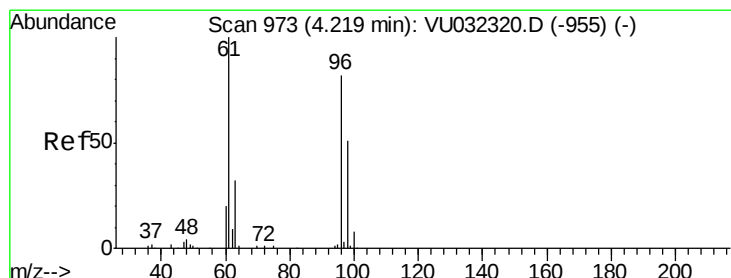
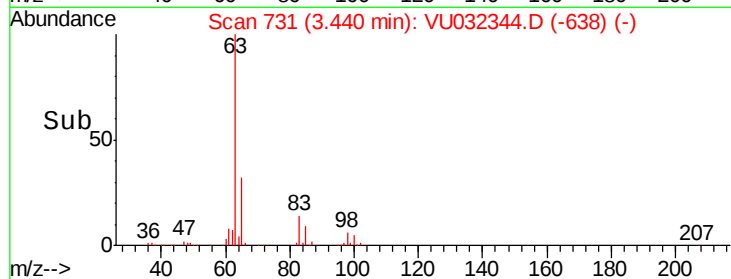
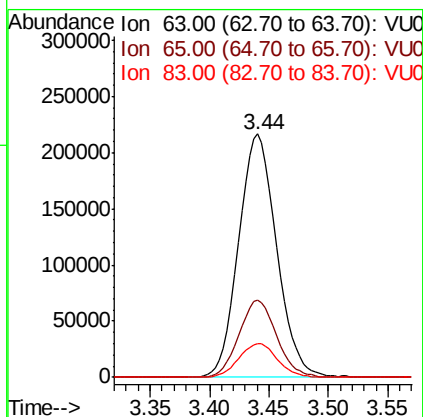
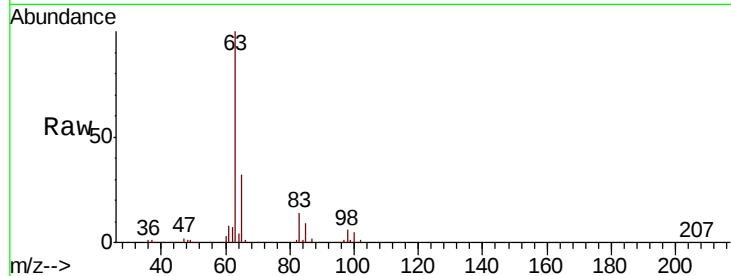




#19
 1,1-Dichloroethane
 Concen: 48.812 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

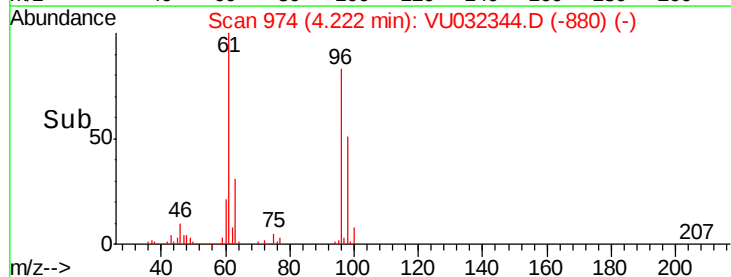
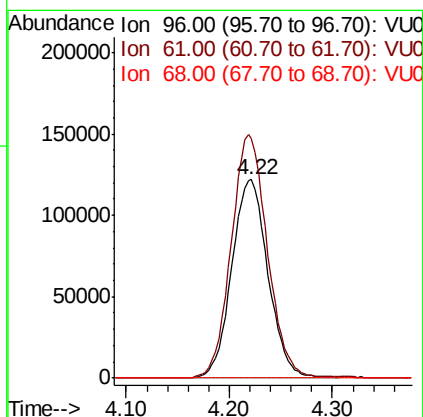
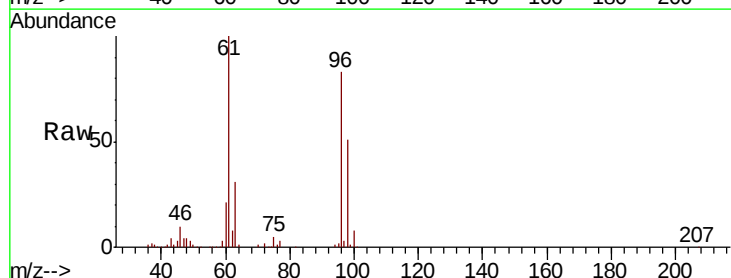
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

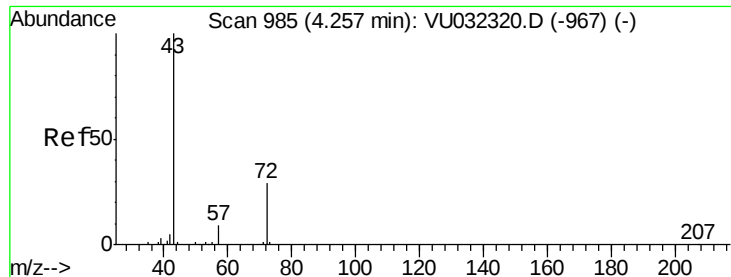
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.2	43.0
83	13.8	9.9	18.5



#20
 cis-1,2-Dichloroethene
 Concen: 49.458 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	120.7	85.6	159.0
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 94.162 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

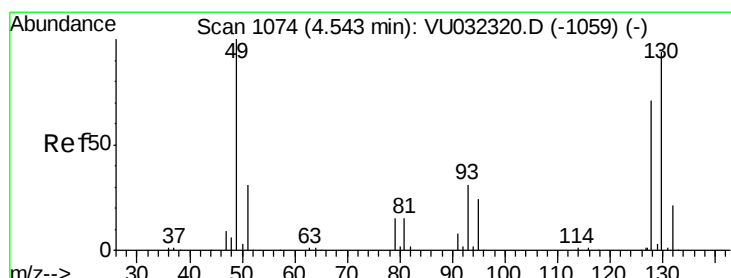
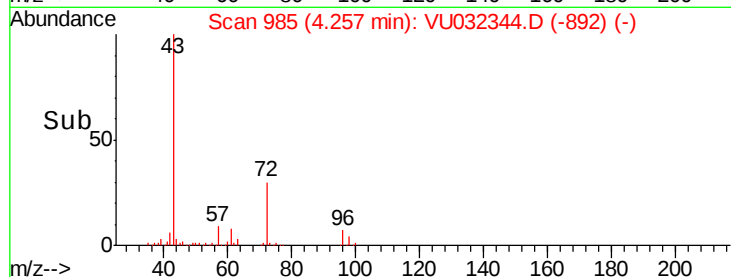
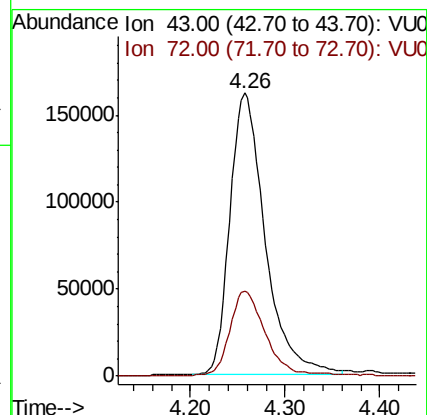
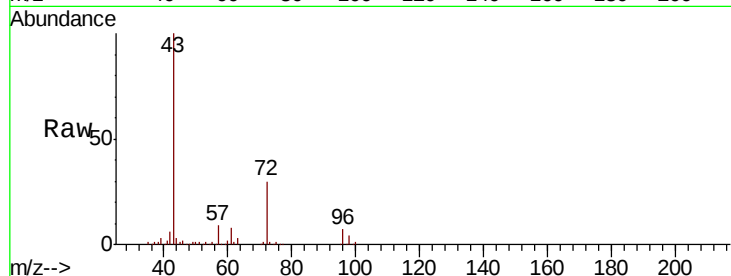
VSTD05053

Tgt Ion: 43 Resp: 419054

Ion Ratio Lower Upper

43 100

72 30.8 15.3 45.8



#23

Bromochloromethane

Concen: 48.673 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Tgt Ion: 128 Resp: 155160

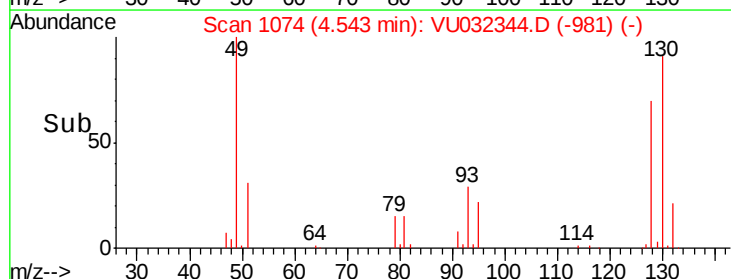
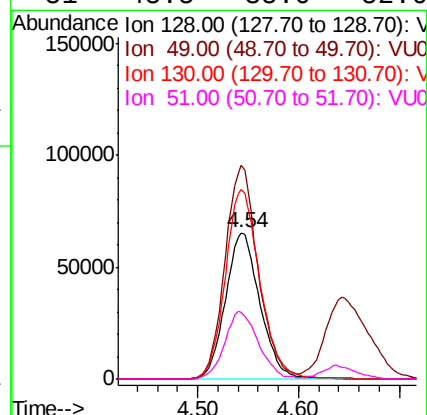
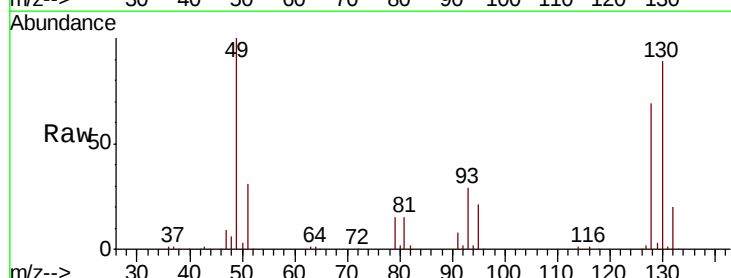
Ion Ratio Lower Upper

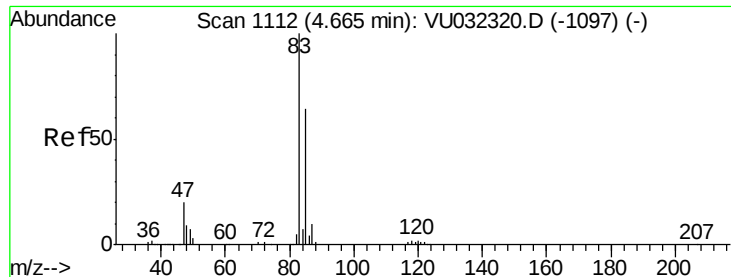
128 100

49 146.0 98.8 183.6

130 129.8 92.3 171.5

51 45.5 35.0 52.6





#25

Chloroform

Concen: 48.871 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

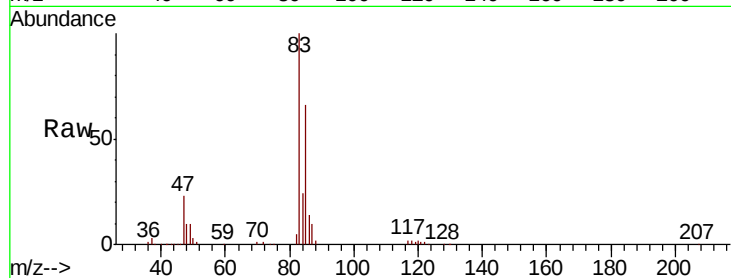
VSTD05053

Tgt Ion: 83 Resp: 497673

Ion Ratio Lower Upper

83 100

85 65.8 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU032320.D (-1097) (-)

Ion 85.00 (84.70 to 85.70): VU032320.D (-1097) (-)

4.67

200000

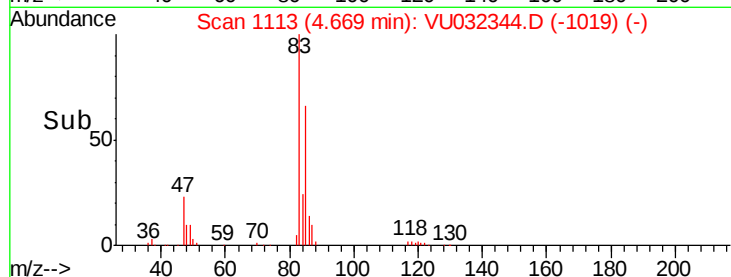
150000

100000

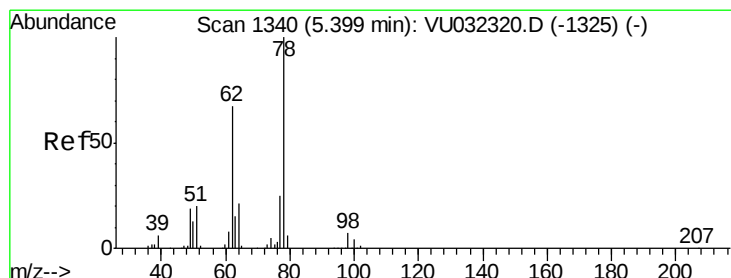
50000

0

Time-->



Time-->



#27

1,2-Dichloroethane

Concen: 49.598 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU032344.D

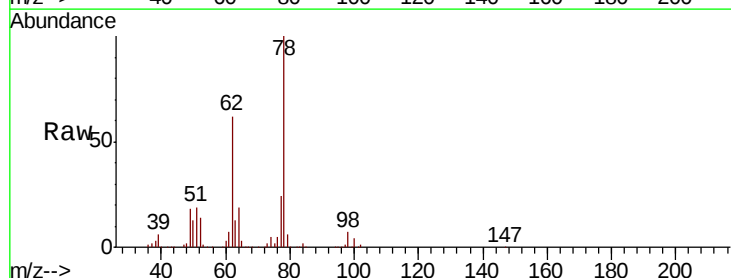
Acq: 28 May 2019 22:31

Tgt Ion: 62 Resp: 375943

Ion Ratio Lower Upper

62 100

98 10.6 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU032320.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU032320.D (-1325) (-)

5.40

200000

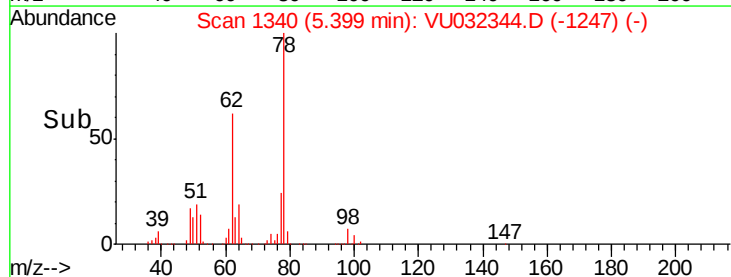
150000

100000

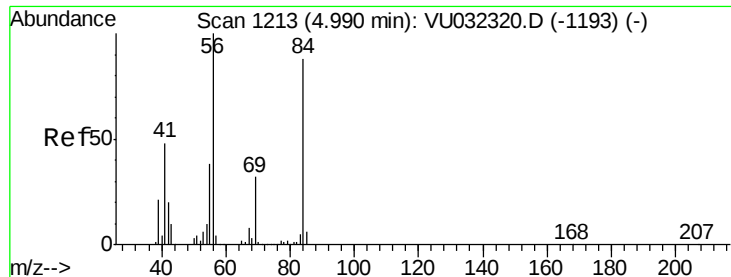
50000

0

Time-->



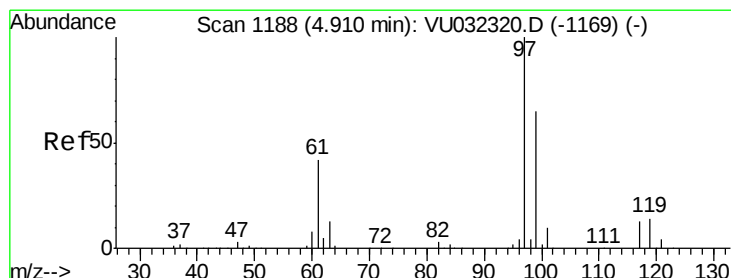
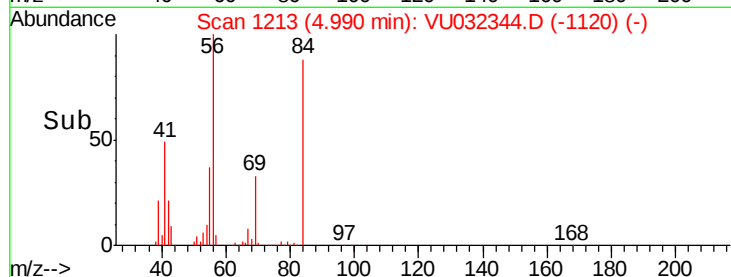
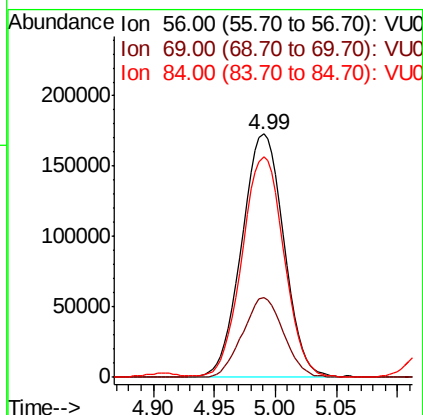
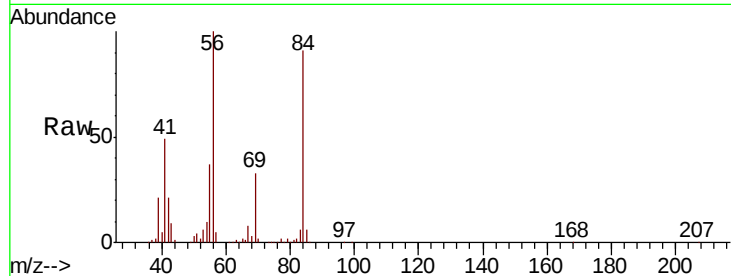
Time-->



#29
Cyclohexane
Concen: 51.741 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU032344.D
Acq: 28 May 2019 22:31

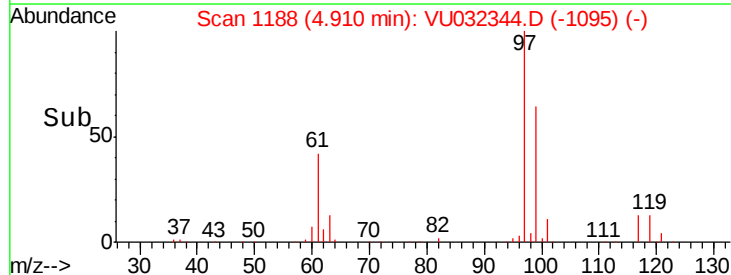
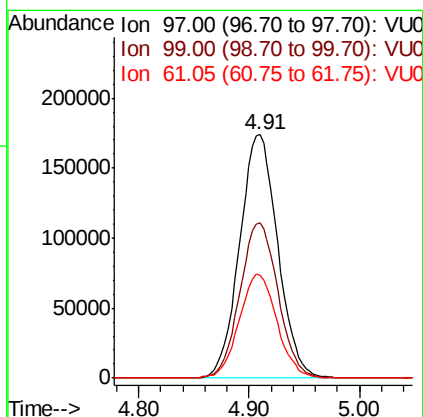
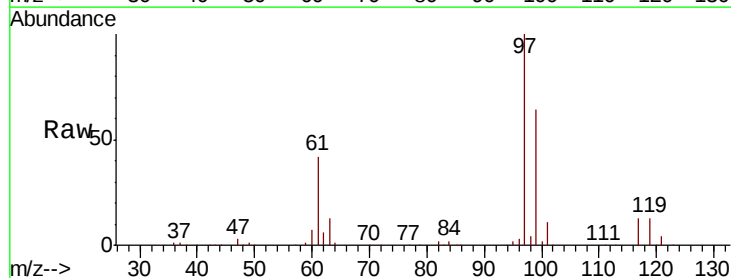
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

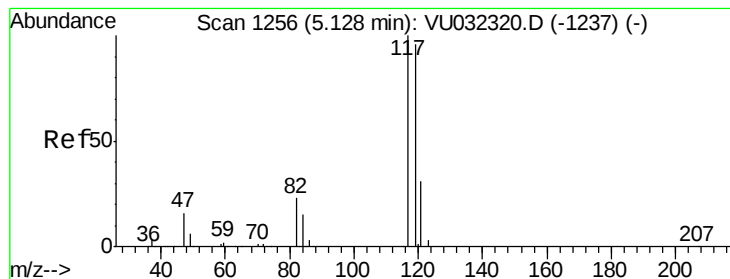
Tgt Ion: 56 Resp: 414807
Ion Ratio Lower Upper
56 100
69 31.9 25.6 38.4
84 90.1 71.4 107.2



#30
1,1,1-Trichloroethane
Concen: 50.654 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU032344.D
Acq: 28 May 2019 22:31

Tgt Ion: 97 Resp: 416507
Ion Ratio Lower Upper
97 100
99 63.7 51.4 77.0
61 42.4 33.7 50.5





#31

Carbon tetrachloride

Concen: 51.750 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

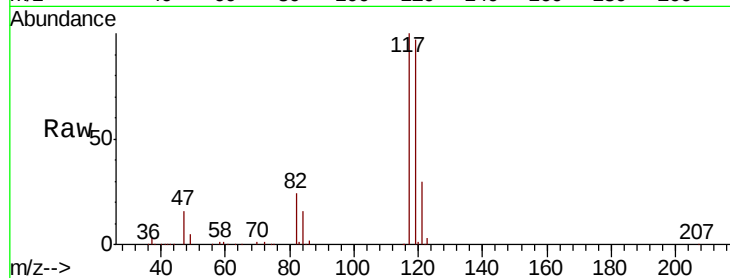
VSTD05053

Tgt Ion:117 Resp: 364372

Ion Ratio Lower Upper

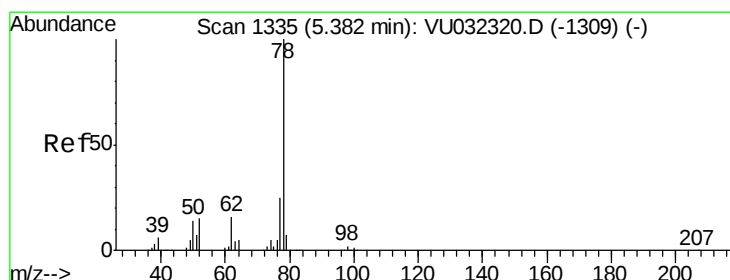
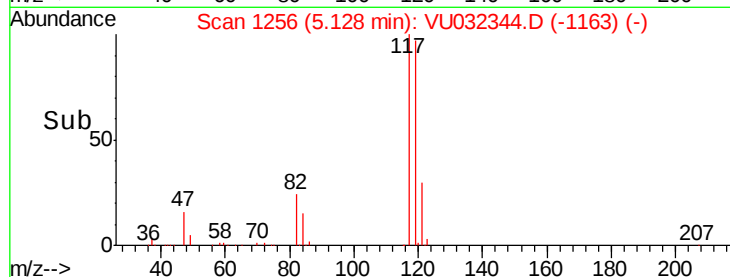
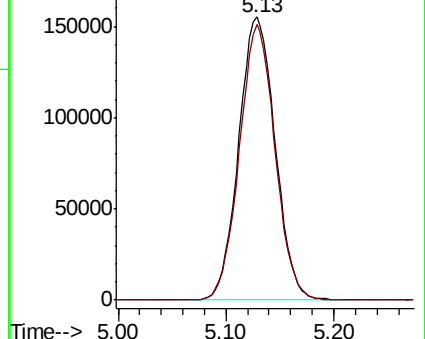
117 100

119 95.1 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.001 ug/L

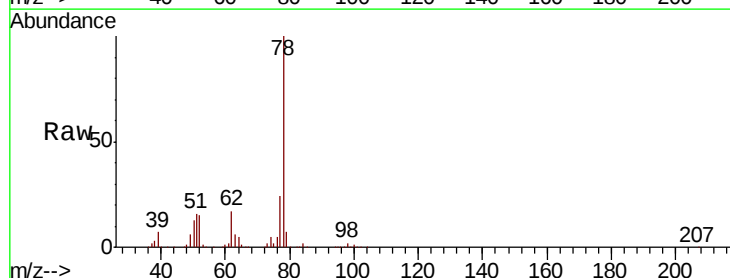
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Tgt Ion: 78 Resp: 1120362



Abundance Ion 78.00 (77.70 to 78.70): VU0

600000

500000

400000

300000

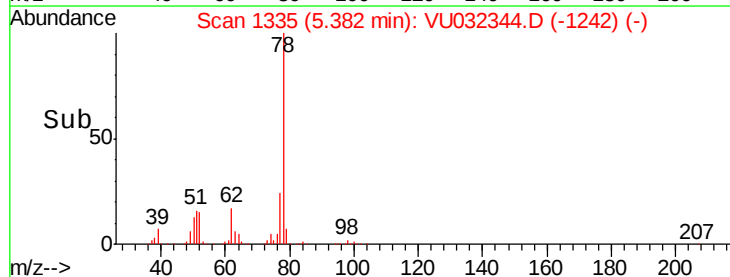
200000

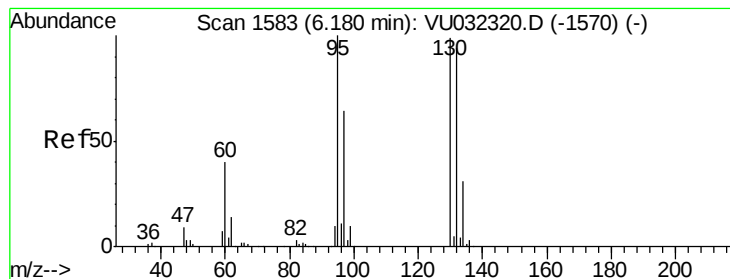
100000

0

Time-->

Chromatogram showing abundance versus time (5.30 to 5.50 minutes). A single sharp peak is labeled at 5.38 minutes.





#34

Trichloroethene

Concen: 51.207 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

Tgt Ion: 95 Resp: 290627

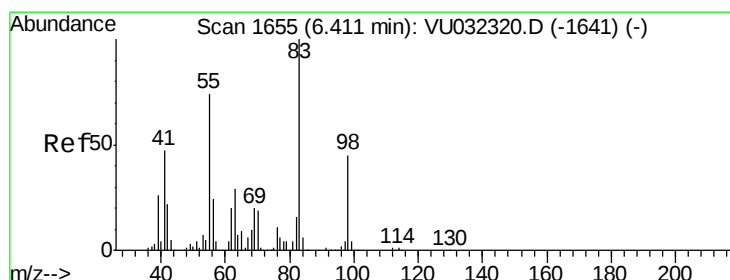
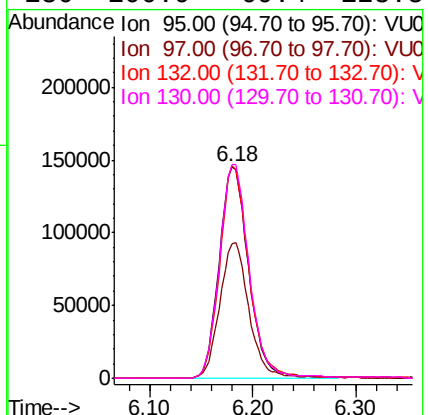
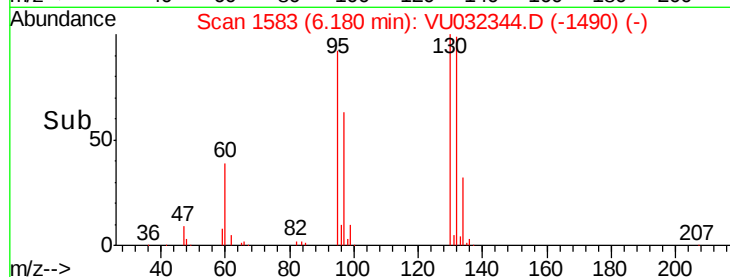
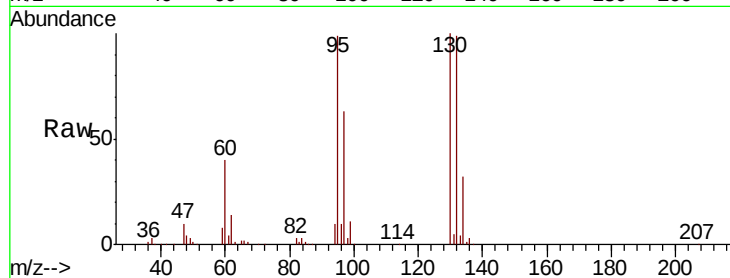
Ion Ratio Lower Upper

95 100

97 63.6 44.8 83.2

132 100.3 66.2 123.0

130 100.9 69.4 128.8



#35

Methylcyclohexane

Concen: 50.433 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

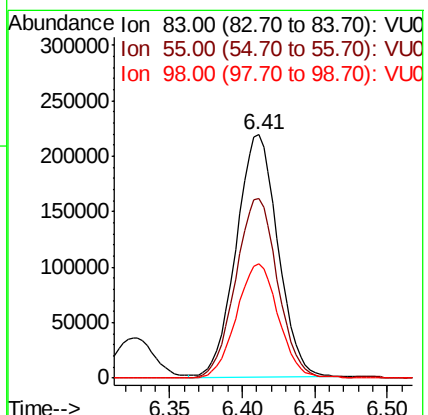
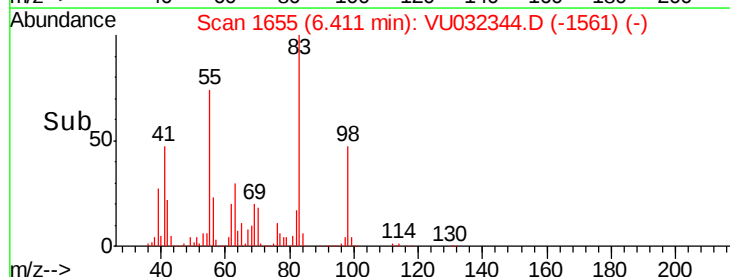
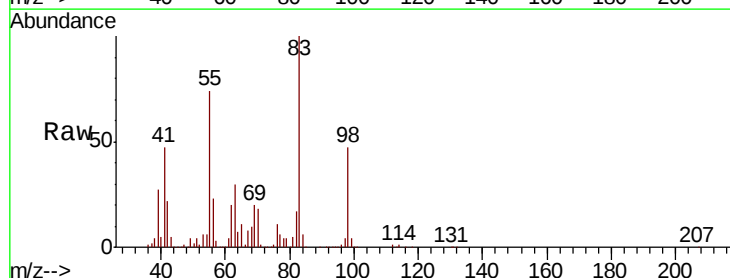
Tgt Ion: 83 Resp: 434901

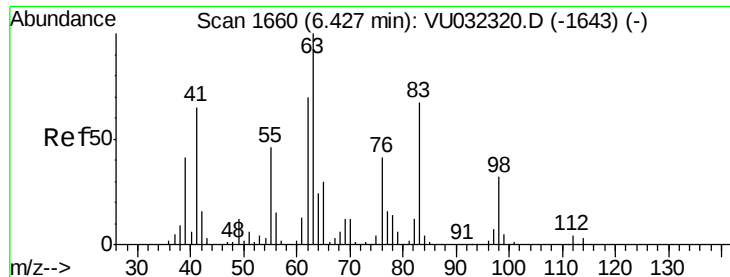
Ion Ratio Lower Upper

83 100

55 75.3 59.4 89.0

98 47.3 37.1 55.7

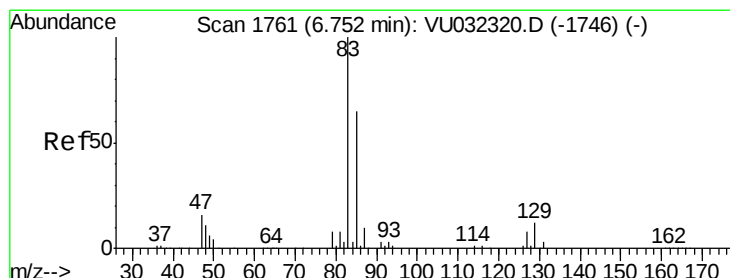
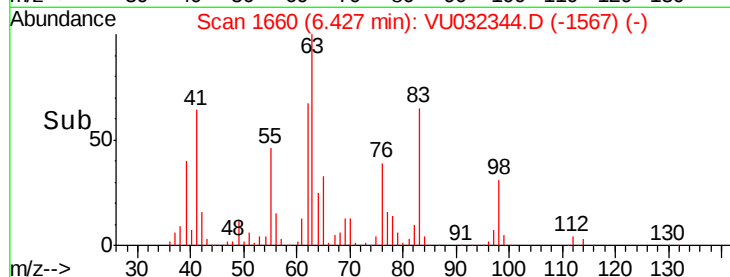
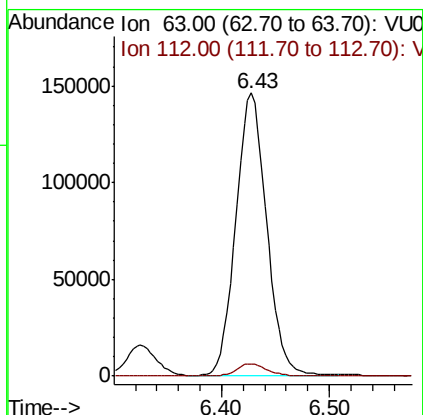
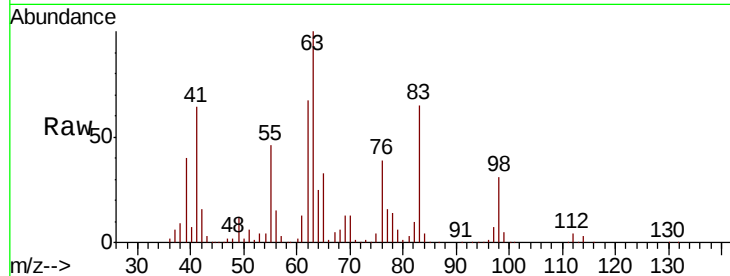




#37
 1,2-Dichloropropane
 Concen: 50.341 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

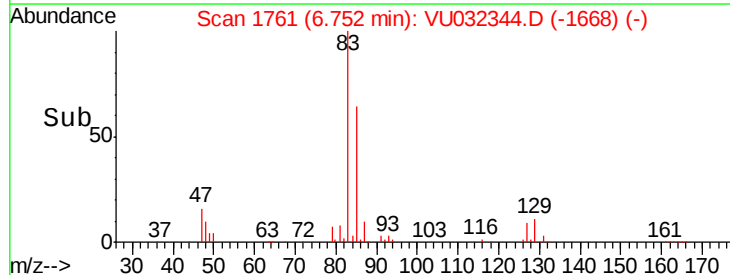
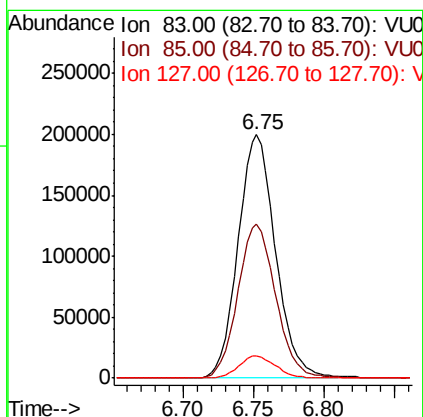
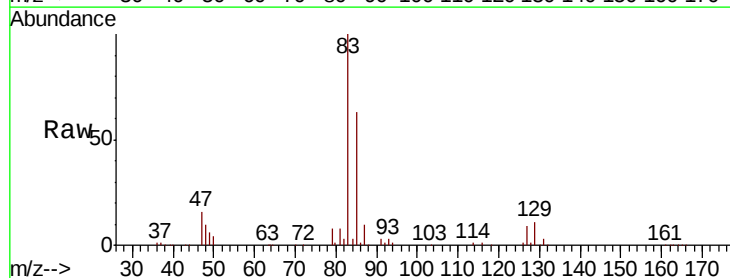
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

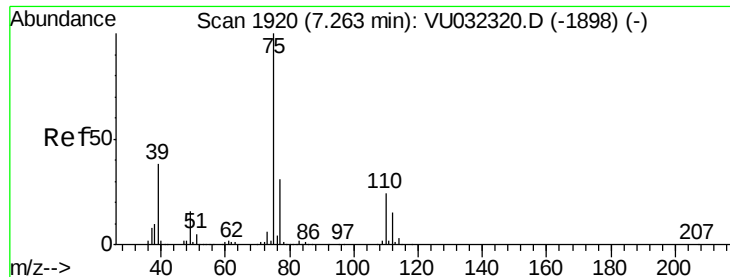
Tgt Ion: 63 Resp: 288840
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.3 4.9



#38
 Bromodichloromethane
 Concen: 50.297 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

Tgt Ion: 83 Resp: 370870
 Ion Ratio Lower Upper
 83 100
 85 63.1 45.4 84.2
 127 9.2 6.4 9.6





#39

cis-1,3-Dichloropropene

Concen: 51.029 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampled :

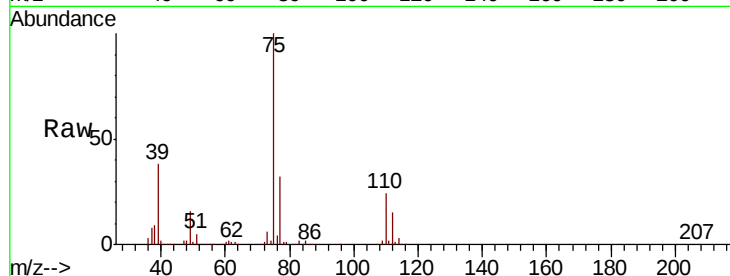
VSTD05053

Tgt Ion: 75 Resp: 432747

Ion Ratio Lower Upper

75 100

77 31.8 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032320.D (-1898) (-)

Ion 77.00 (76.70 to 77.70): VU032320.D (-1898) (-)

7.26

250000

200000

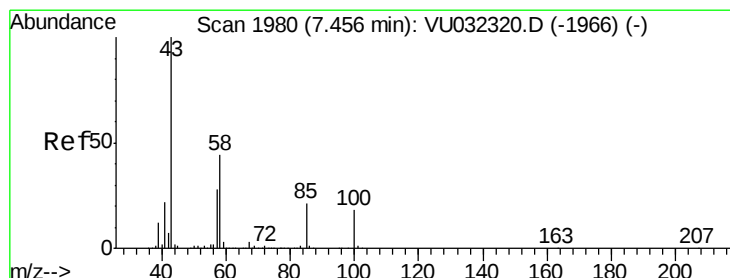
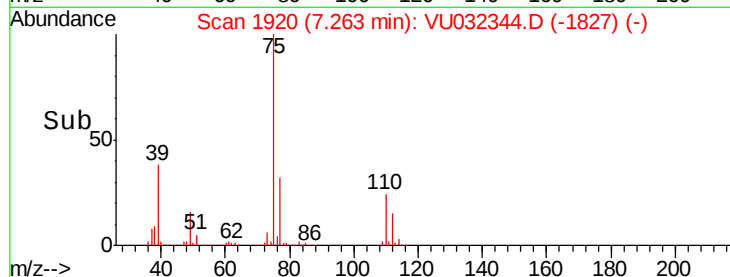
150000

100000

50000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 104.175 ug/L

RT: 7.46 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

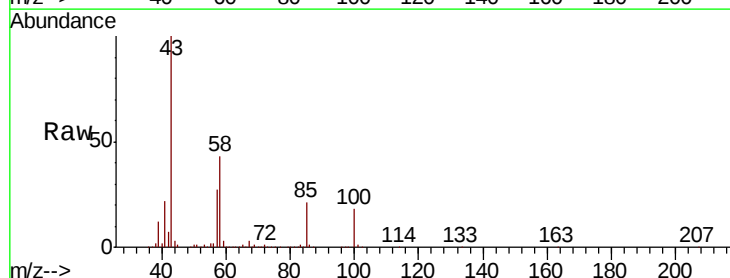
Tgt Ion: 43 Resp: 779649

Ion Ratio Lower Upper

43 100

58 43.6 34.6 52.0

100 17.9 14.1 21.1



Abundance Ion 43.00 (42.70 to 43.70): VU032320.D (-1966) (-)

Ion 58.00 (57.70 to 58.70): VU032320.D (-1966) (-)

Ion 100.00 (99.70 to 100.70): VU032320.D (-1966) (-)

7.46

600000

500000

400000

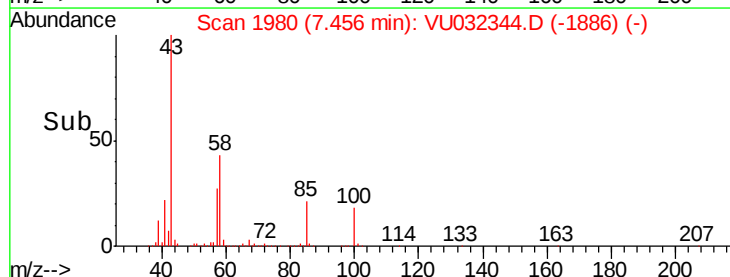
300000

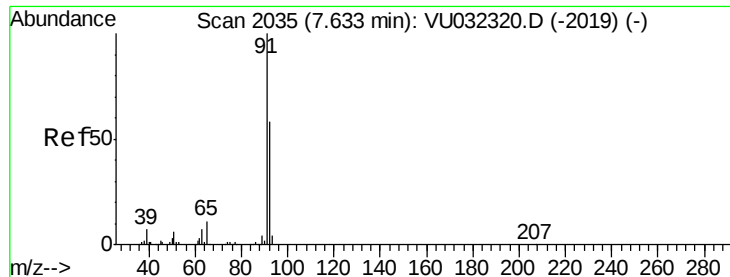
200000

100000

0

Time-->





#42

Toluene

Concen: 51.547 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

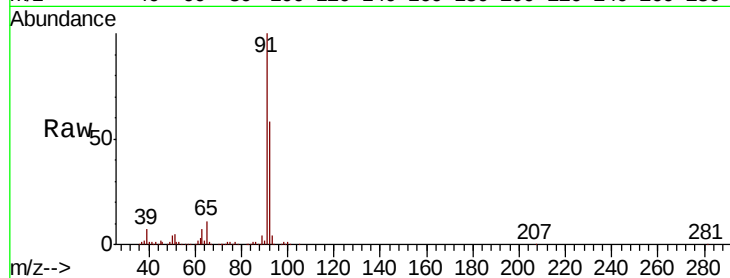
VSTD05053

Tgt Ion: 91 Resp: 1232805

Ion Ratio Lower Upper

91 100

92 57.8 40.7 75.7



Abundance Ion 91.00 (90.70 to 91.70): VU032320.D (-2019) (-)

Ion 92.00 (91.70 to 92.70): VU032320.D (-2019) (-)

7.63

800000

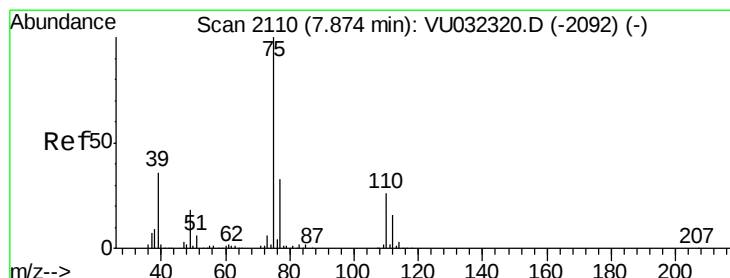
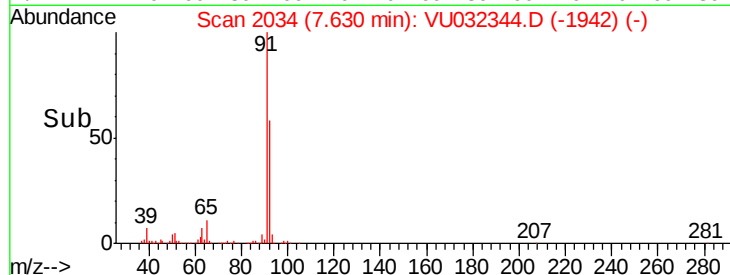
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.282 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032344.D

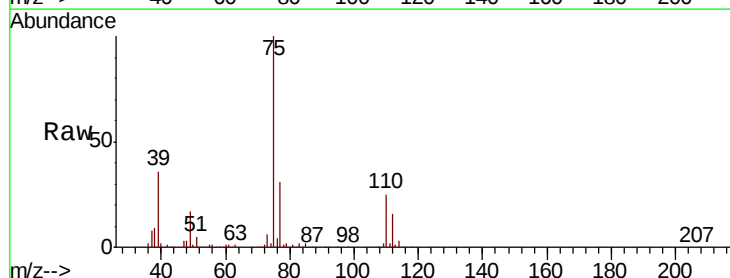
Acq: 28 May 2019 22:31

Tgt Ion: 75 Resp: 380887

Ion Ratio Lower Upper

75 100

77 30.9 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VU032320.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU032320.D (-2092) (-)

7.87

250000

200000

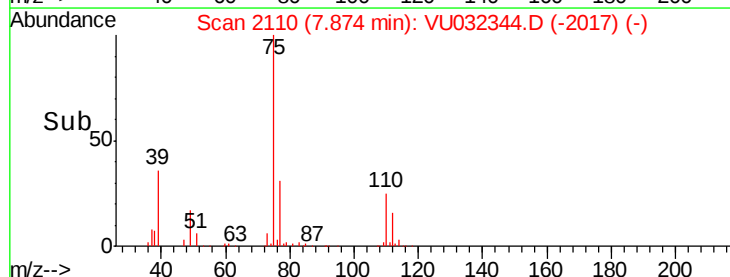
150000

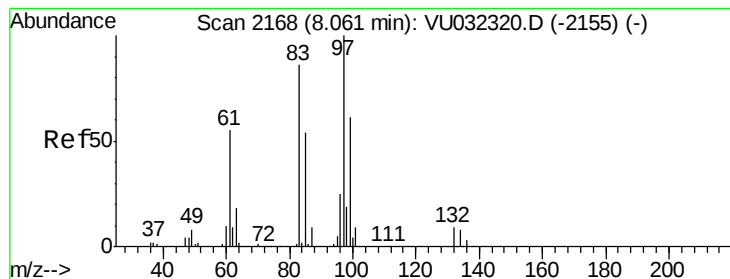
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 51.835 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

Tgt Ion: 97 Resp: 290797

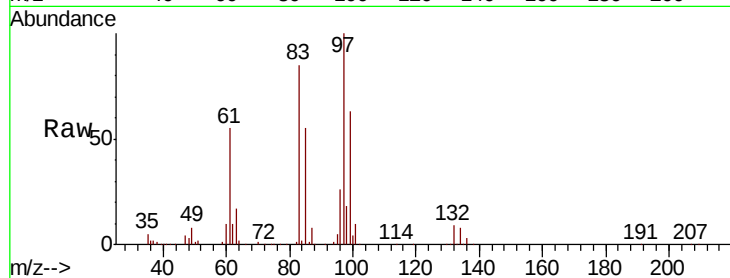
Ion Ratio Lower Upper

97 100

99 62.8 42.6 79.0

83 84.9 60.3 112.1

85 55.1 38.1 70.9

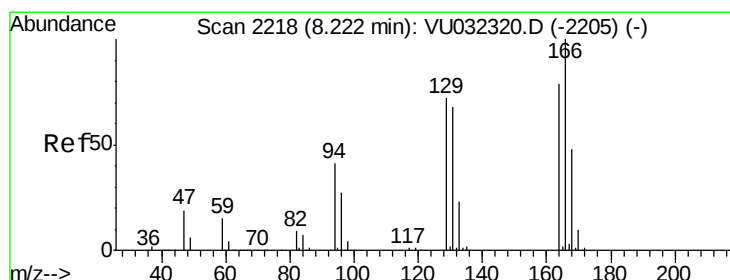
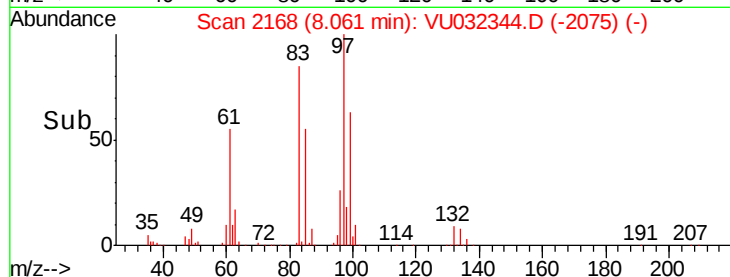
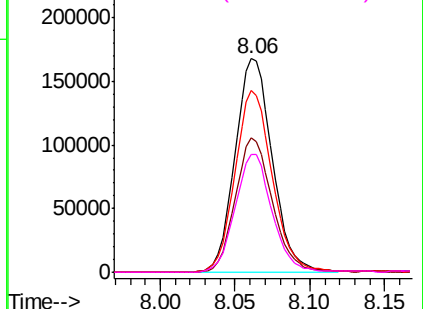


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 50.403 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Tgt Ion: 164 Resp: 232401

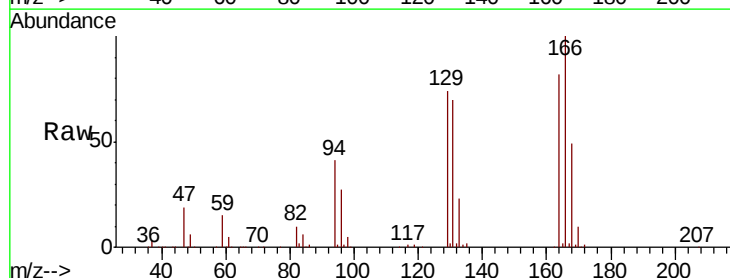
Ion Ratio Lower Upper

164 100

129 90.3 63.9 118.7

131 85.3 60.4 112.2

166 122.0 88.3 164.1

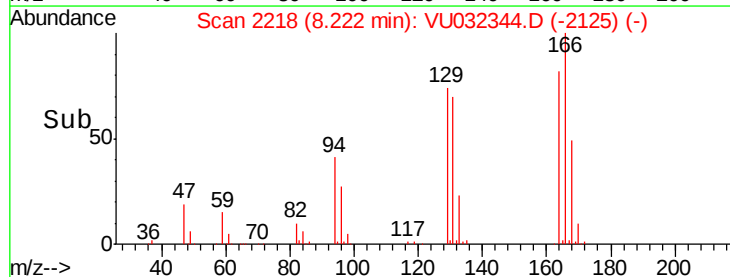
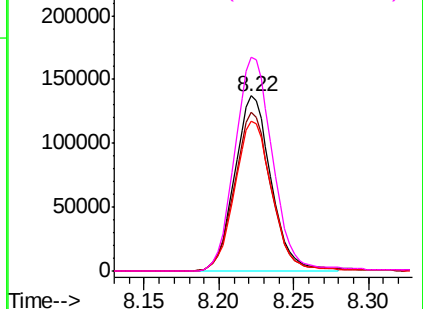


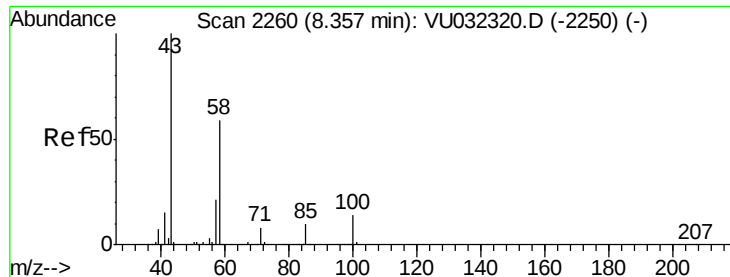
Abundance Ion 164.00 (163.70 to 164.70): V

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

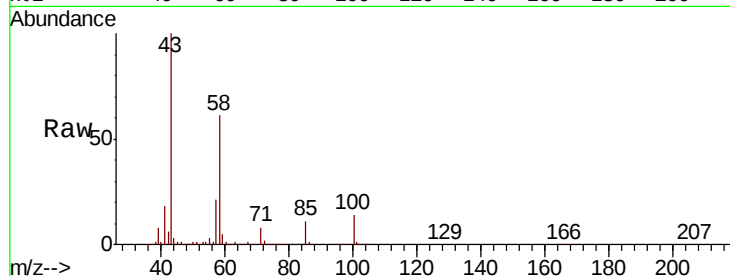




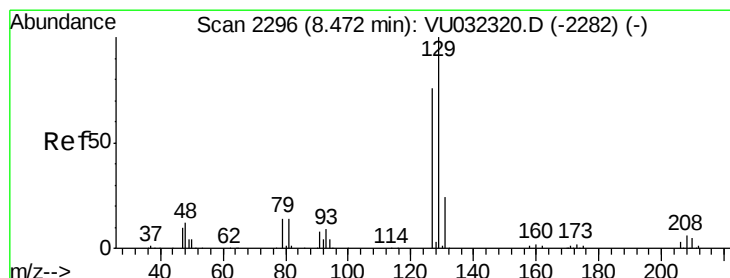
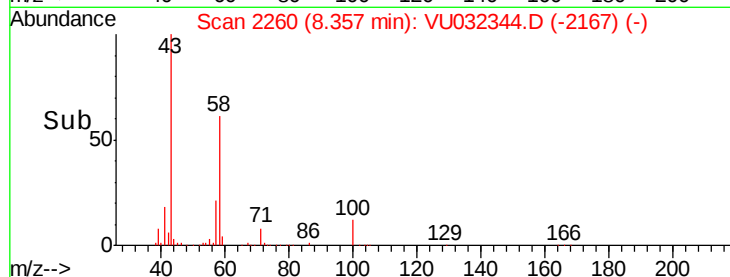
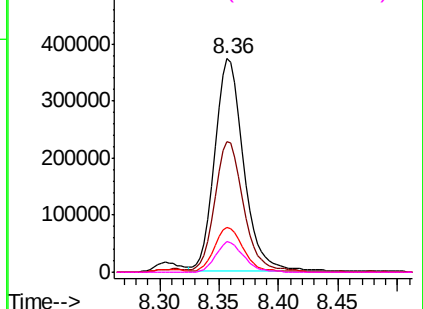
#48
2-Hexanone
Concen: 102.636 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032344.D
Acq: 28 May 2019 22:31

Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

Tgt Ion:	43	Resp:	626636
Ion	Ratio	Lower	Upper
43	100		
58	61.8	48.6	73.0
57	21.2	17.0	25.4
100	13.8	11.0	16.4

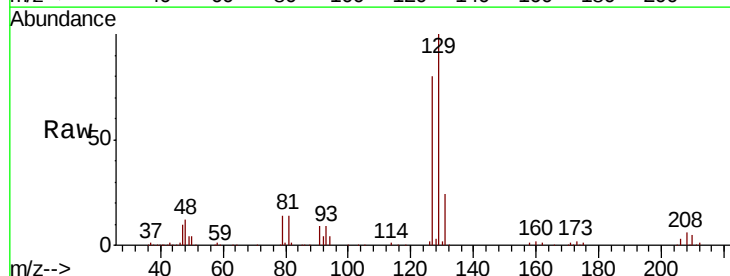


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

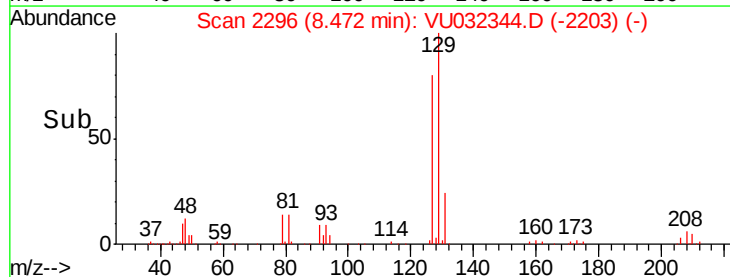
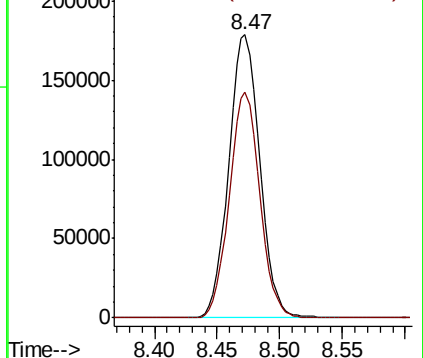


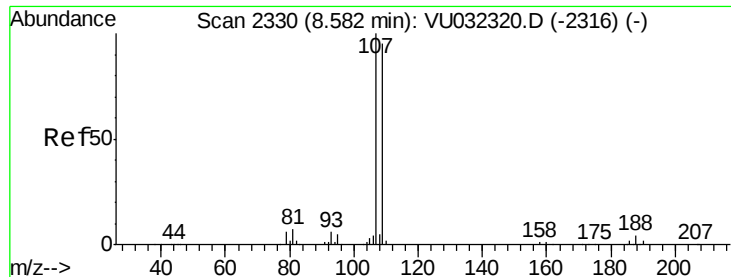
#49
Dibromochloromethane
Concen: 50.619 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032344.D
Acq: 28 May 2019 22:31

Tgt Ion:	129	Resp:	307577
Ion	Ratio	Lower	Upper
129	100		
127	79.6	53.3	99.1



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

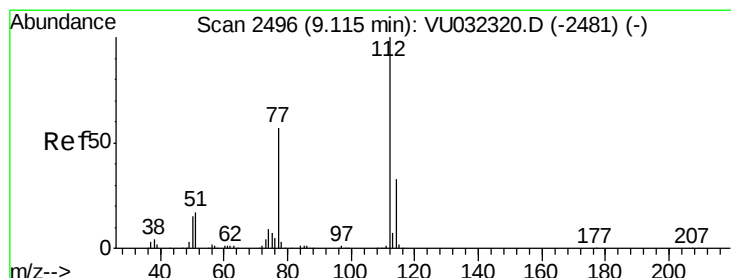
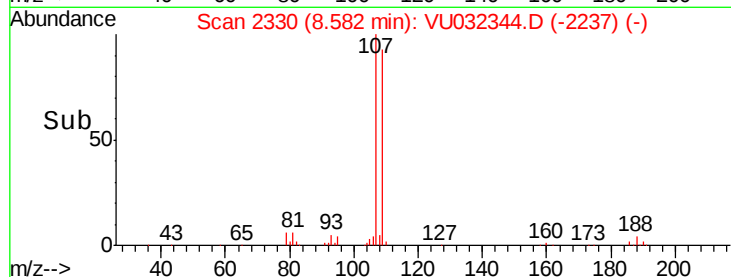
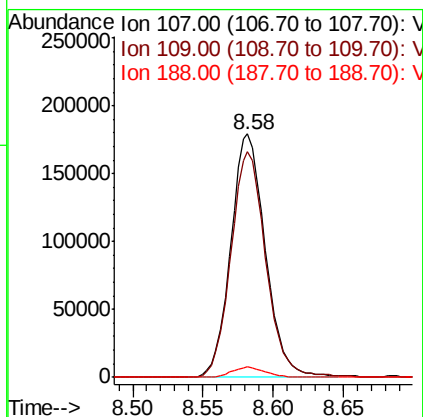
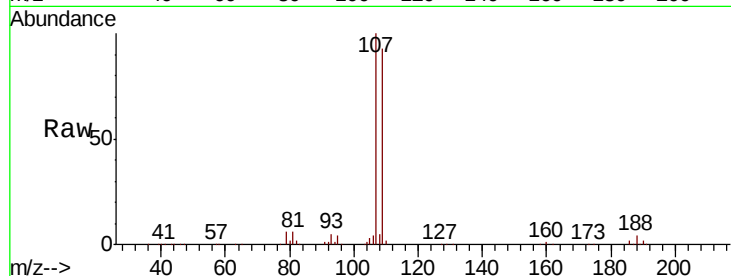




#50
 1,2-Dibromoethane
 Concen: 51.965 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

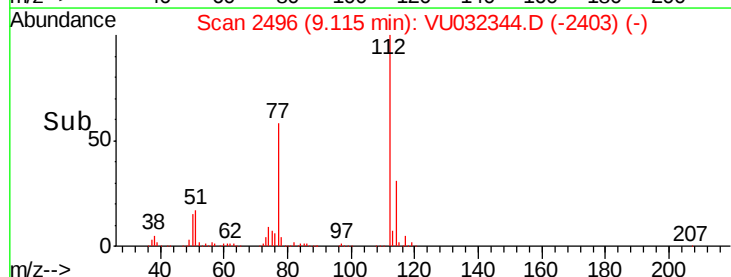
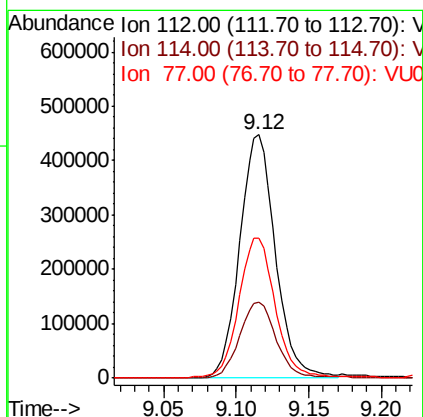
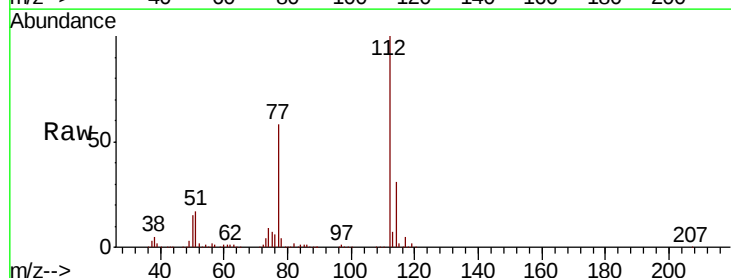
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

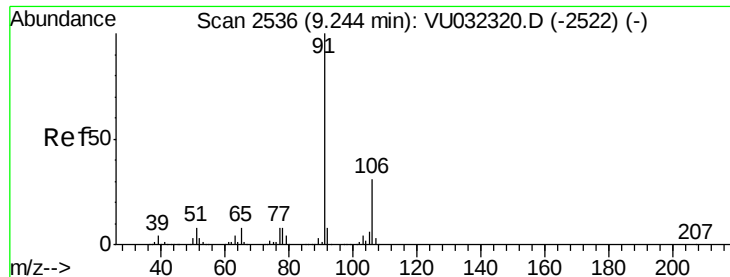
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.6	66.7	123.9
188	4.1	3.0	4.6



#51
 Chlorobenzene
 Concen: 49.737 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	22.9	42.5
77	57.7	45.8	68.8





#52

Ethylbenzene

Concen: 52.216 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

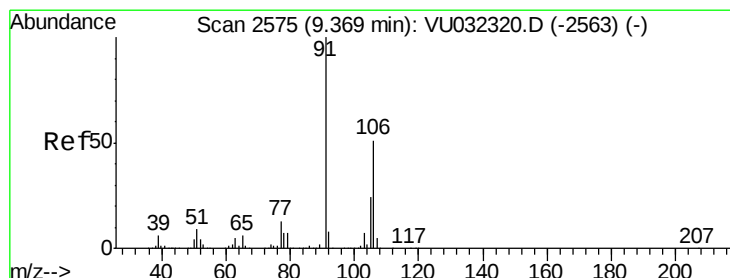
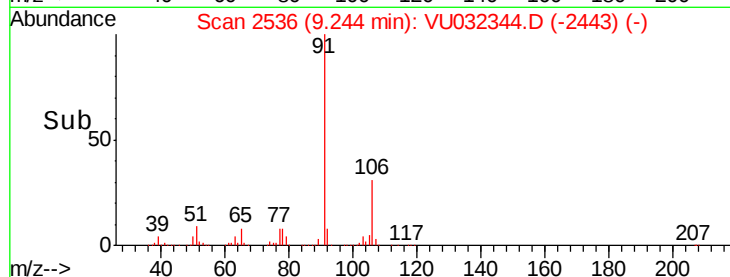
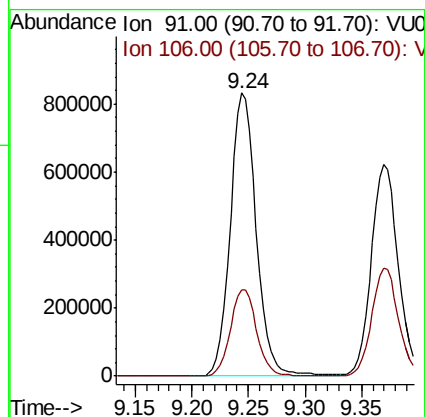
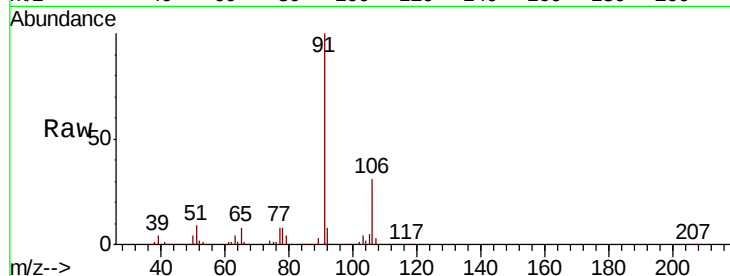
VSTD05053

Tgt Ion: 91 Resp: 1333188

Ion Ratio Lower Upper

91 100

106 30.7 22.0 40.8



#53

m,p-Xylene

Concen: 53.111 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032344.D

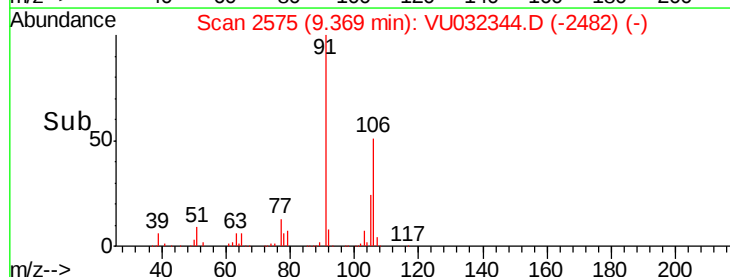
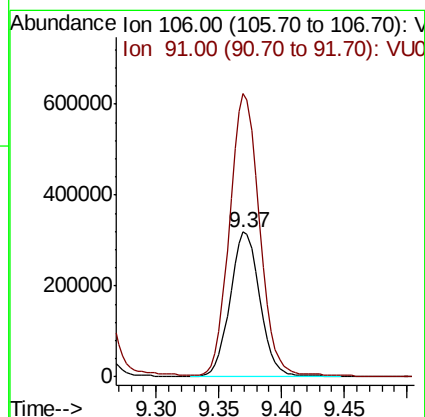
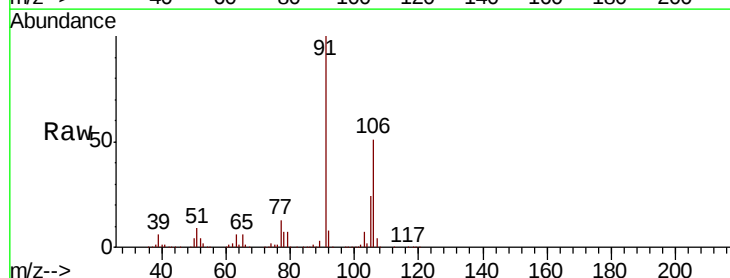
Acq: 28 May 2019 22:31

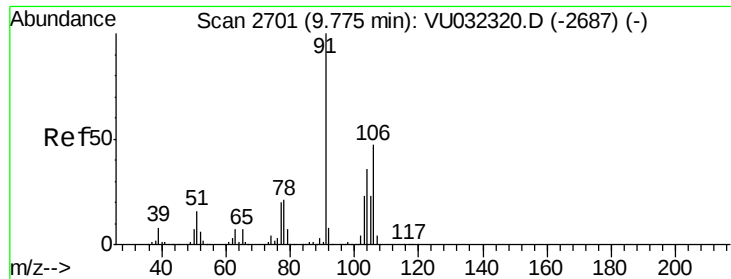
Tgt Ion: 106 Resp: 521725

Ion Ratio Lower Upper

106 100

91 195.3 138.8 257.8





#54

o-xylene

Concen: 52.311 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

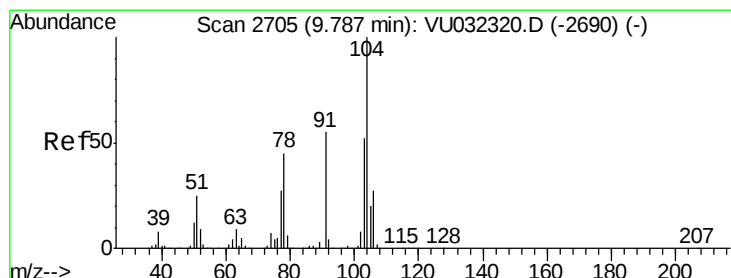
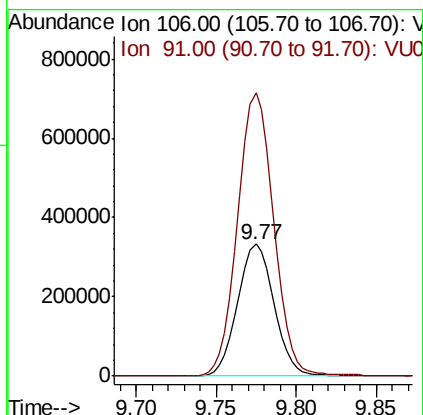
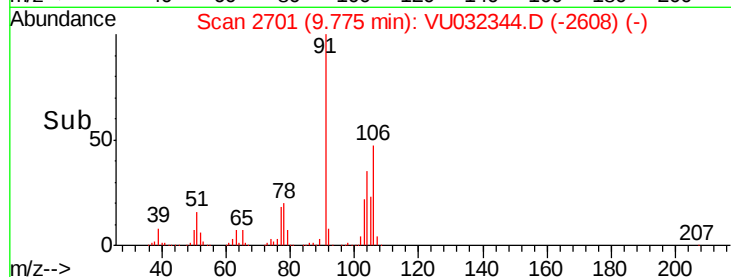
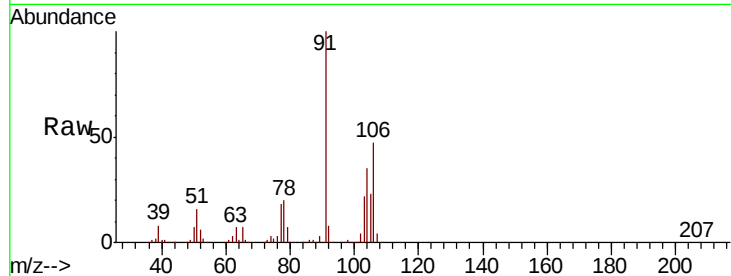
VSTD05053

Tgt Ion:106 Resp: 515750

Ion Ratio Lower Upper

106 100

91 214.6 147.5 273.9



#55

Styrene

Concen: 54.133 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032344.D

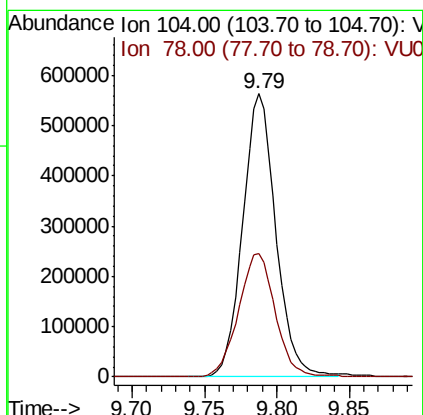
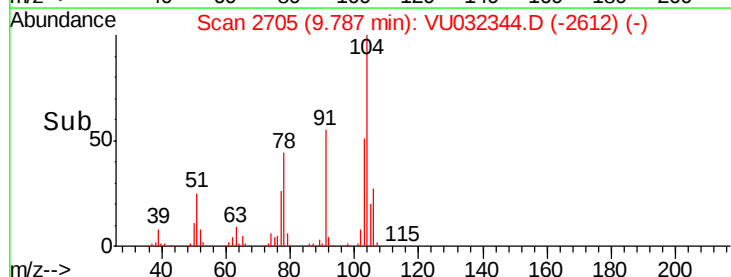
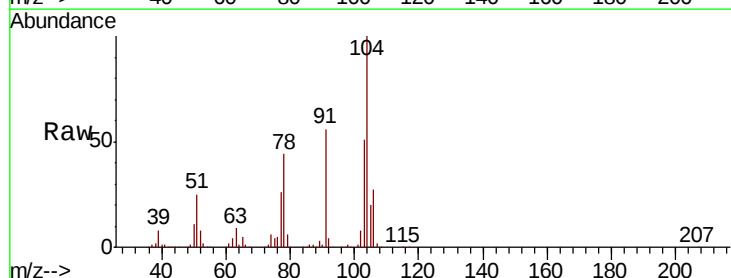
Acq: 28 May 2019 22:31

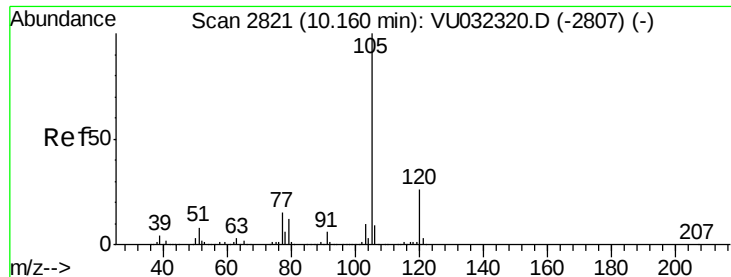
Tgt Ion:104 Resp: 895370

Ion Ratio Lower Upper

104 100

78 43.8 31.5 58.5





#56

Isopropylbenzene

Concen: 52.946 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampled :

VSTD05053

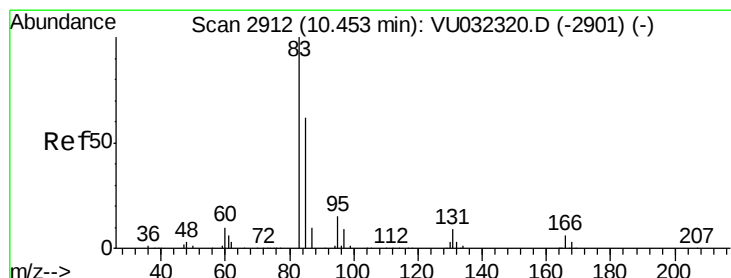
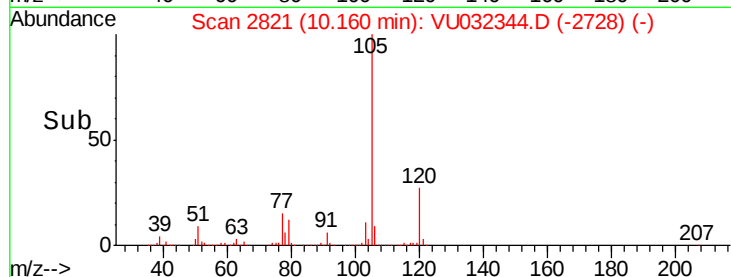
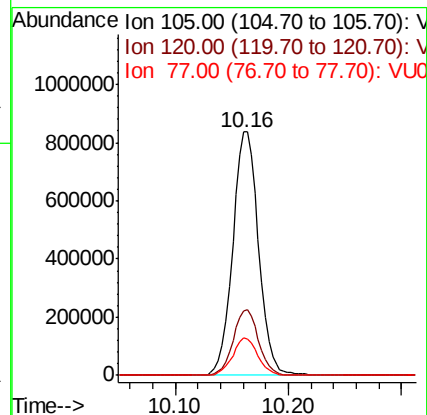
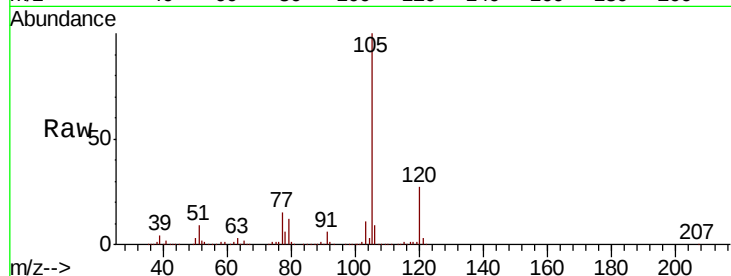
Tgt Ion:105 Resp: 1324592

Ion Ratio Lower Upper

105 100

120 26.7 21.0 31.4

77 15.0 11.8 17.6



#58

1,1,2,2-Tetrachloroethane

Concen: 49.813 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

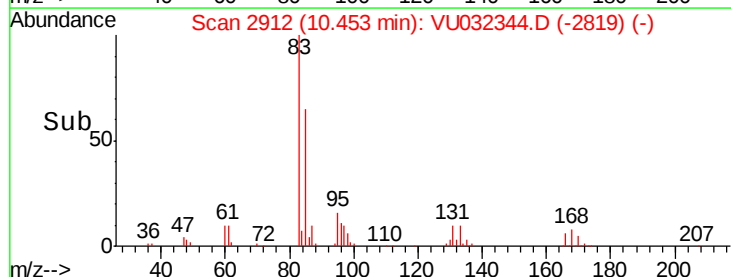
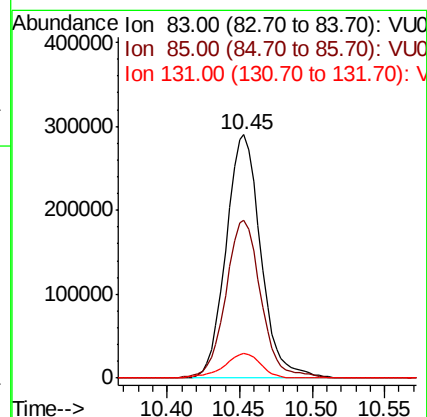
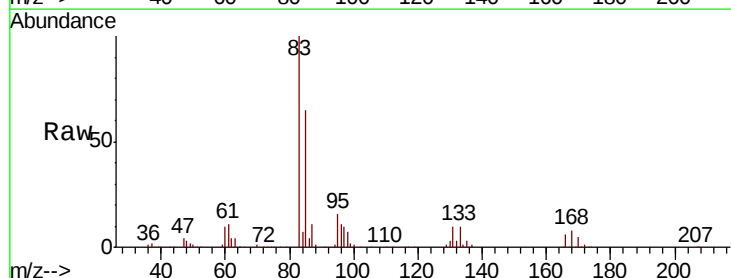
Tgt Ion: 83 Resp: 482538

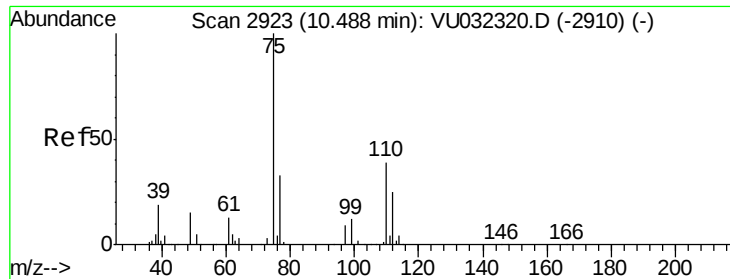
Ion Ratio Lower Upper

83 100

85 65.1 44.3 82.3

131 10.3 7.6 11.4





#59

1,2,3-Trichloropropane

Concen: 49.571 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

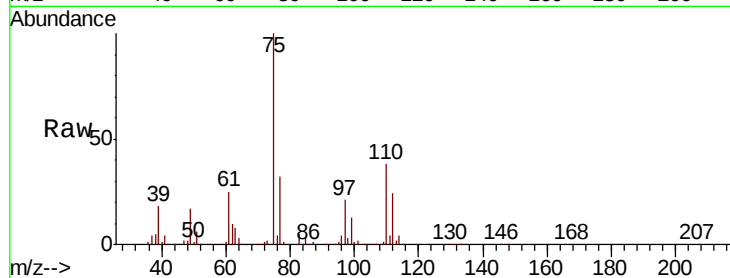
VSTD05053

Tgt Ion: 75 Resp: 377291

Ion Ratio Lower Upper

75 100

77 32.4 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU032320.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU032320.D (-2910) (-)

10.49

250000

200000

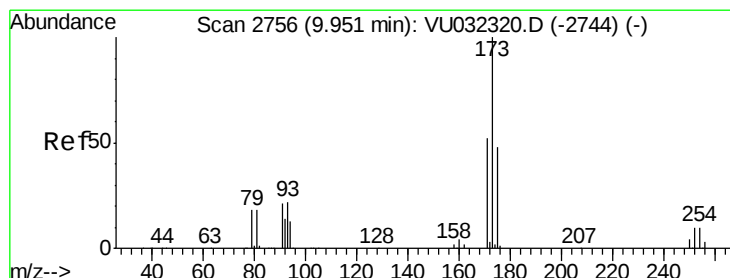
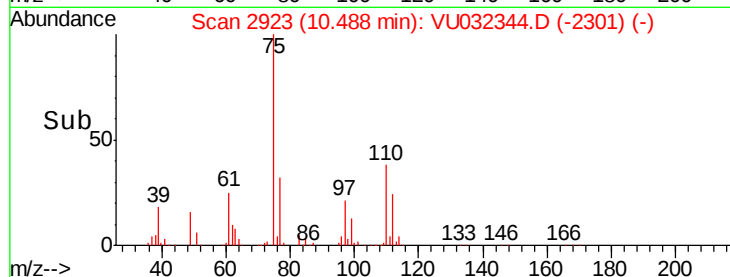
150000

100000

50000

0

Time--> 10.40 10.45 10.50 10.55



#61

Bromoform

Concen: 47.691 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

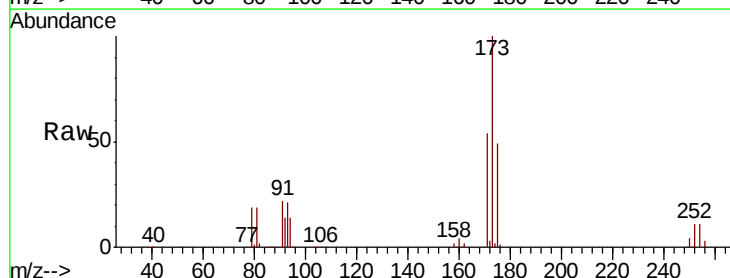
Tgt Ion: 173 Resp: 238789

Ion Ratio Lower Upper

173 100

175 48.1 38.8 58.2

254 10.0 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): VU032320.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU032320.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU032320.D (-2744) (-)

9.95

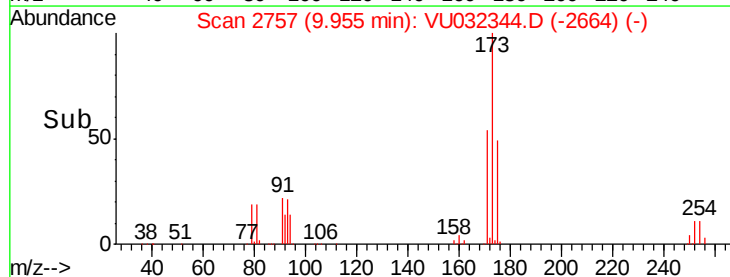
150000

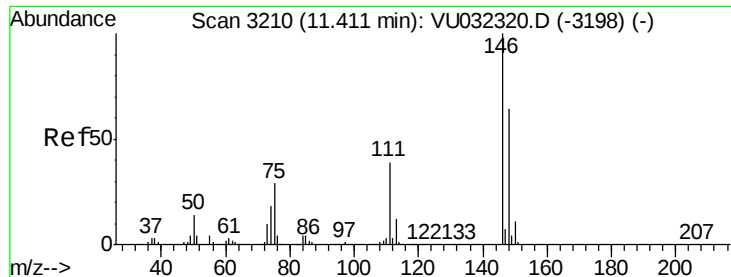
100000

50000

0

Time--> 9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 50.477 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

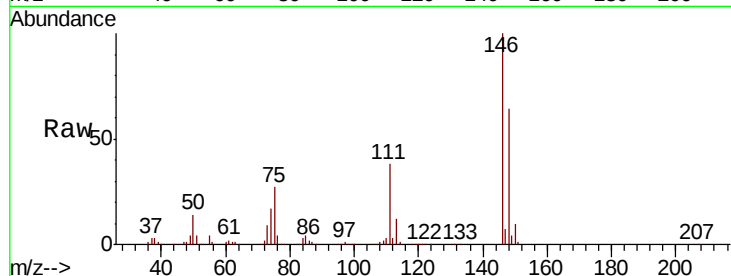
Tgt Ion:146 Resp: 607858

Ion Ratio Lower Upper

146 100

111 38.2 27.6 51.2

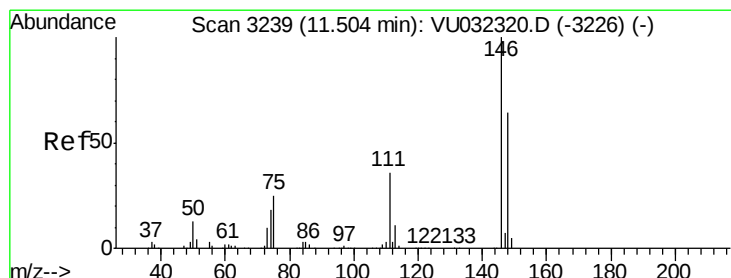
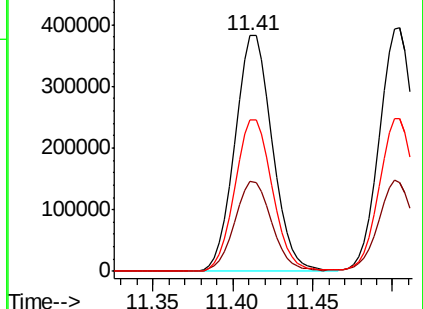
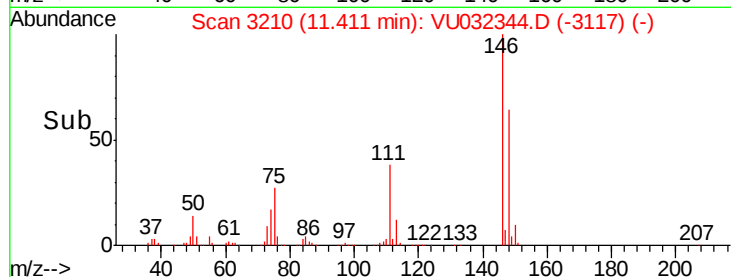
148 64.4 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 49.980 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

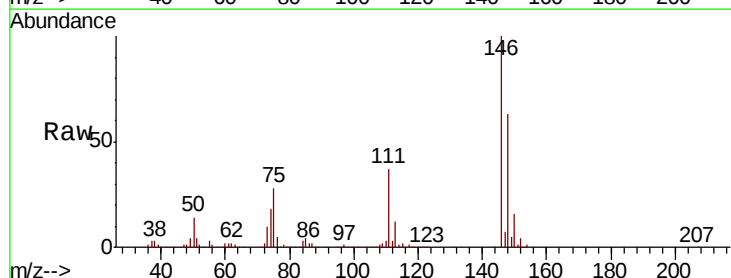
Tgt Ion:146 Resp: 621216

Ion Ratio Lower Upper

146 100

111 36.6 25.6 47.4

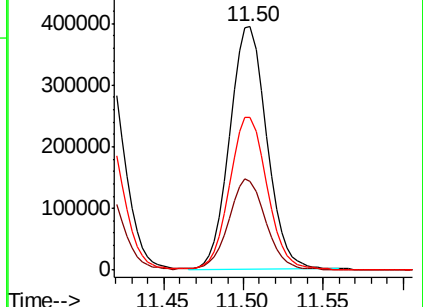
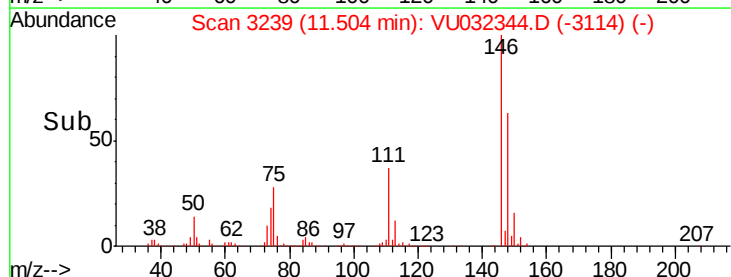
148 62.9 45.0 83.6

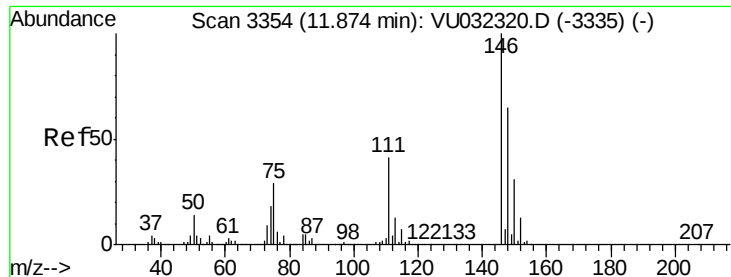


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

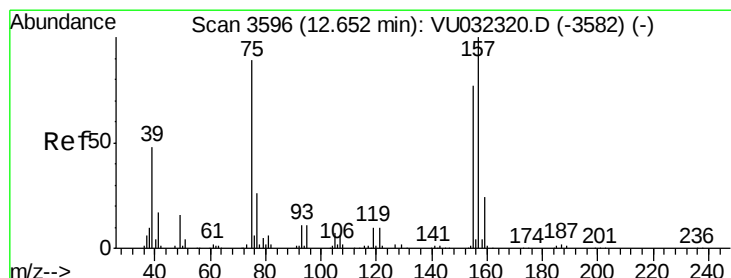
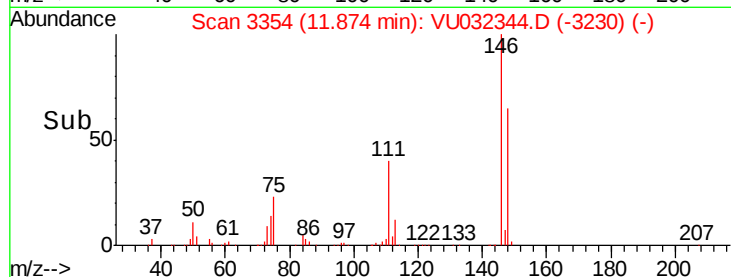
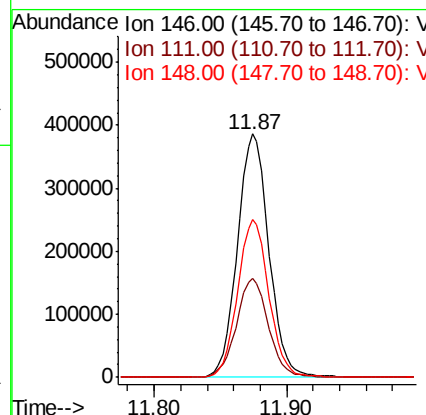
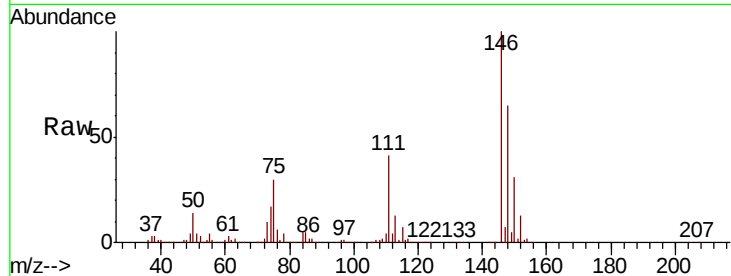




#65
 1,2-Dichlorobenzene
 Concen: 49.976 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

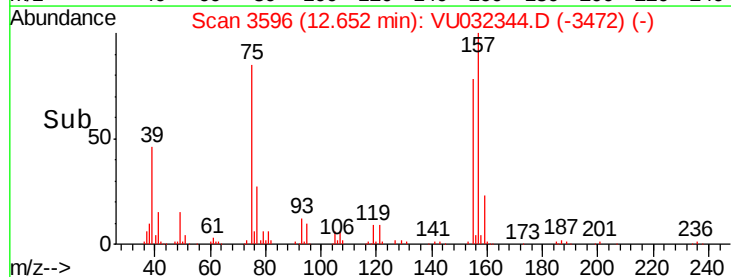
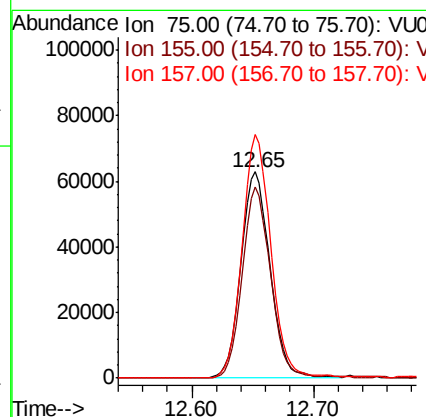
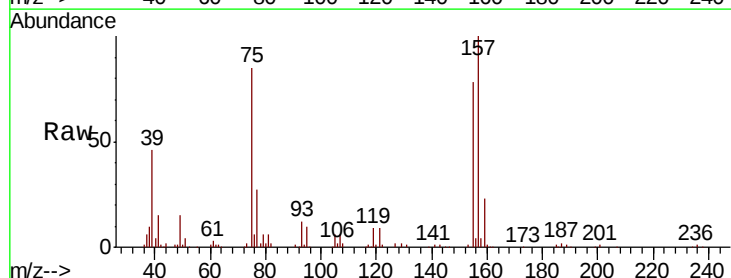
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

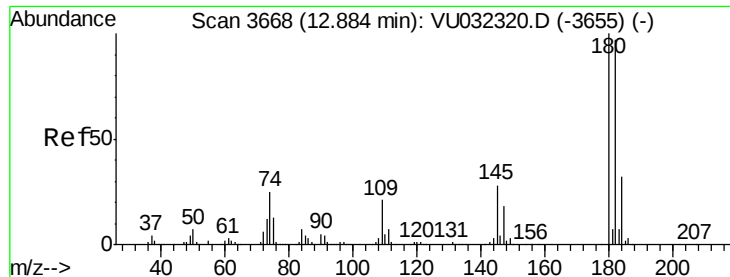
Tgt Ion:146 Resp: 633545
 Ion Ratio Lower Upper
 146 100
 111 40.7 33.1 49.7
 148 64.9 52.3 78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.255 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

Tgt Ion: 75 Resp: 104389
 Ion Ratio Lower Upper
 75 100
 155 92.6 69.5 104.3
 157 118.0 89.8 134.6

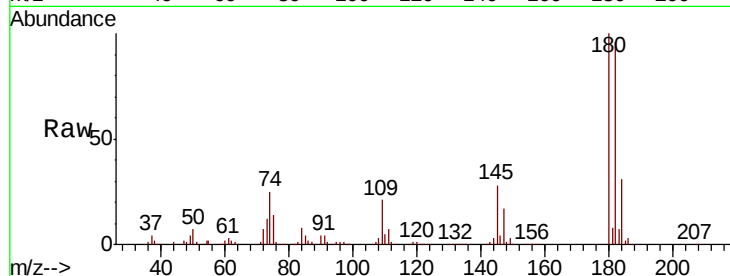




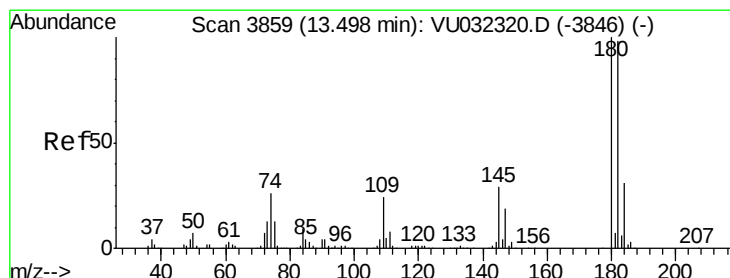
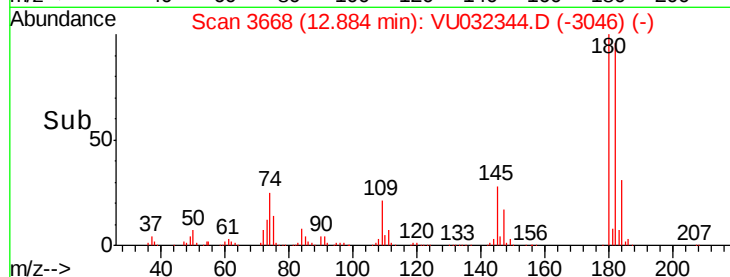
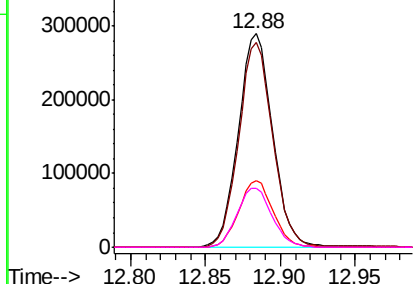
#67
 1,3,5-Trichlorobenzene
 Concen: 51.430 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

Tgt Ion:	180	Resp:	461991
Ion	Ratio	Lower	Upper
180	100		
182	95.1	78.3	117.5
184	31.2	25.0	37.4
145	28.2	22.6	33.8

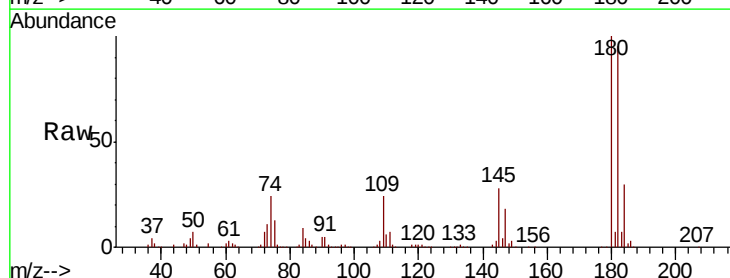


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

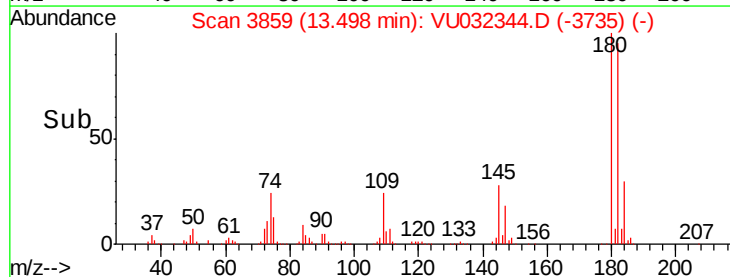
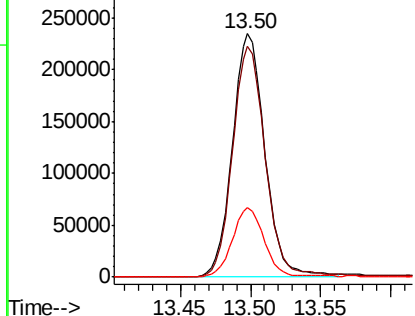


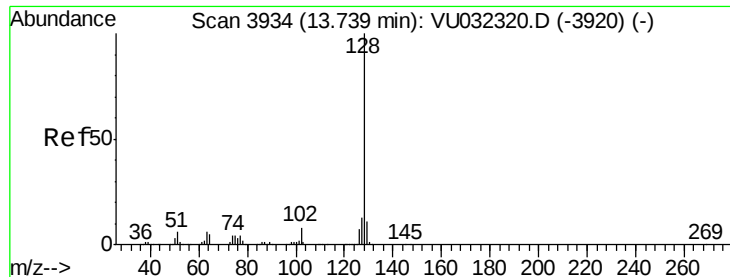
#68
 1,2,4-trichlorobenzene
 Concen: 55.016 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032344.D
 Acq: 28 May 2019 22:31

Tgt Ion:	180	Resp:	379772
Ion	Ratio	Lower	Upper
180	100		
182	96.1	78.2	117.4
145	27.9	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: 59.156 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

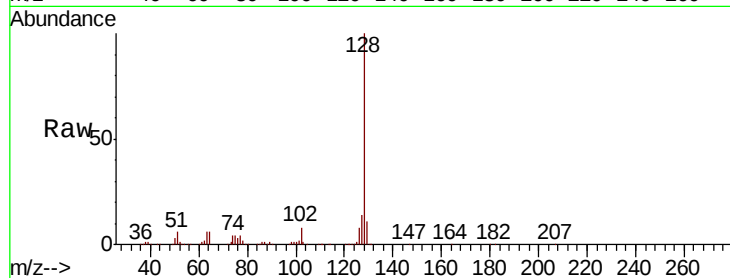
Tgt Ion:128 Resp: 1222550

Ion Ratio Lower Upper

128 100

127 13.1 10.1 15.1

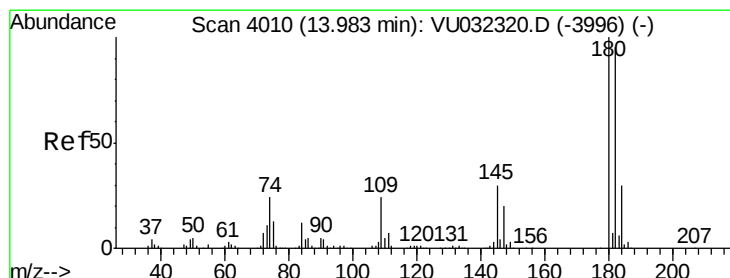
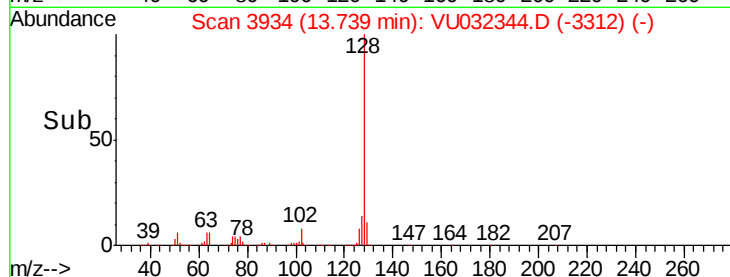
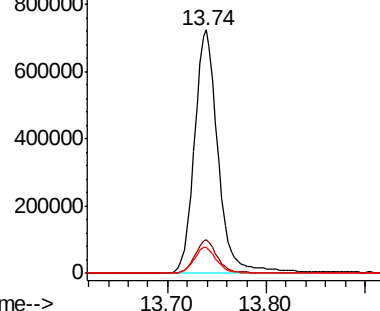
129 10.4 8.7 13.1



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: 55.833 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032344.D

Acq: 28 May 2019 22:31

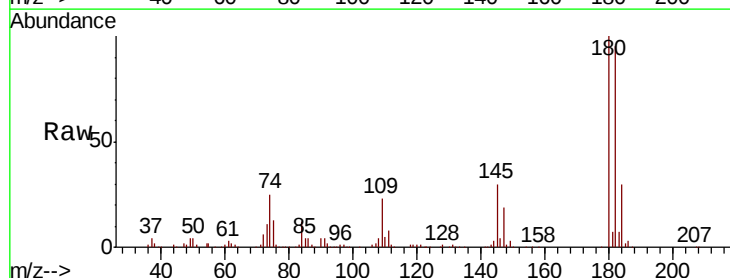
Tgt Ion:180 Resp: 416868

Ion Ratio Lower Upper

180 100

182 94.0 77.7 116.5

145 29.7 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

