

Data File : VU031982.D
Acq On : 14 May 2019 10:20
Operator : JC/SP
Sample : VSTD00550
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00550

Quant Time: May 15 01:47:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 15 01:44:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	982425	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	999704	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	410531	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	47328	5.74	ug/L	0.00
7) Chloroethane-d5	1.67	69	37149	5.75	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	83642	5.20	ug/L	0.00
21) 2-Butanone-d5	4.19	46	55501	7.81	ug/L	0.02
24) Chloroform-d	4.64	84	75570	5.09	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	49226	5.13	ug/L	0.00
32) Benzene-d6	5.34	84	145374	4.79	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	49083	4.67	ug/L	0.00
41) Toluene-d8	7.56	98	122231	4.62	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	19270	4.27	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	27973	6.19	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	70996	4.94	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	44287	5.12	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	52049	4.981	ug/L	99
3) Chloromethane	1.32	50	58231	4.662	ug/L	99
5) Vinyl chloride	1.40	62	60484	5.093	ug/L #	81
6) Bromomethane	1.62	94	32294	5.136	ug/L	99
8) Chloroethane	1.69	64	36853	5.625	ug/L	100
9) Trichlorofluoromethane	1.88	101	70090	5.195	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	43363	5.590	ug/L	99
12) 1,1-Dichloroethene	2.28	96	40807	5.388	ug/L	99
13) Acetone	2.32	43	73436	9.229	ug/L	96
14) Carbon disulfide	2.47	76	131694	5.265	ug/L	98
15) Methyl Acetate	2.62	43	53474	4.445	ug/L #	100
16) Methylene chloride	2.70	84	50188	5.585	ug/L	95
17) trans-1,2-Dichloroethene	2.98	96	42250	5.336	ug/L	97
18) Methyl tert-butyl Ether	2.99	73	118661	4.748	ug/L	99
19) 1,1-Dichloroethane	3.44	63	82364	5.036	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	44404	5.216	ug/L	98
22) 2-Butanone	4.27	43	69722	7.879	ug/L	100
23) Bromochloromethane	4.55	128	22436	5.399	ug/L	98
25) Chloroform	4.67	83	82192	5.229	ug/L	97
27) 1,2-Dichloroethane	5.41	62	61990	4.878	ug/L	100
29) Cyclohexane	4.99	56	55979	3.689	ug/L	96
30) 1,1,1-Trichloroethane	4.91	97	64975	4.812	ug/L	98
31) Carbon tetrachloride	5.13	117	53549	4.659	ug/L	98
33) Benzene	5.39	78	175726	4.888	ug/L	100
34) Trichloroethene	6.18	95	44364	5.094	ug/L	98
35) Methylcyclohexane	6.41	83	63189	4.795	ug/L	97
37) 1,2-Dichloropropane	6.43	63	46921	4.645	ug/L	98
38) Bromodichloromethane	6.76	83	58810	4.810	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	58092	4.263	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	108035	7.066	ug/L	95

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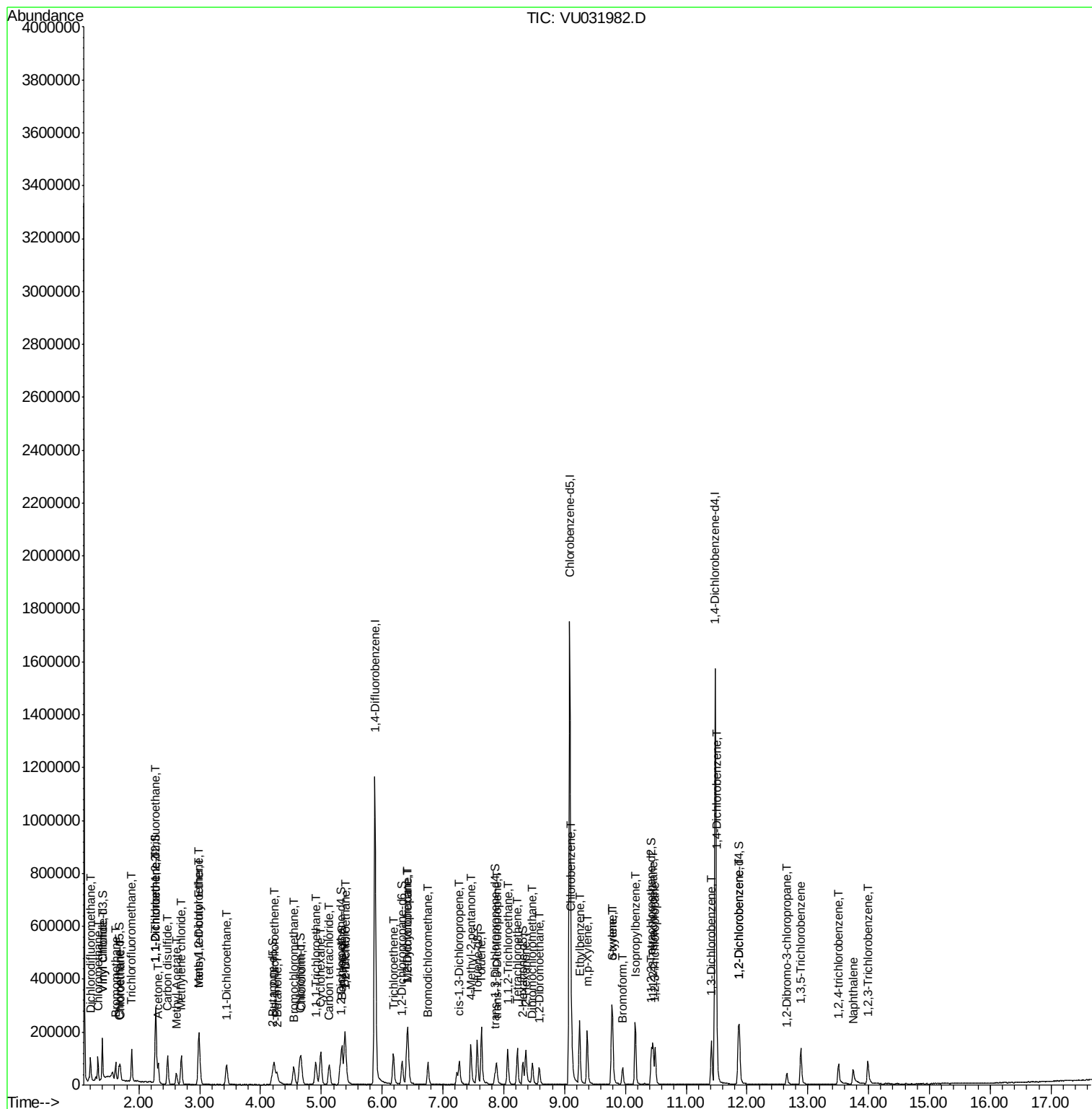
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	164228	4.555	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	52138	4.270	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	43352	5.141	ug/L	97
46) Tetrachloroethene	8.22	164	31201	5.191	ug/L	97
48) 2-Hexanone	8.36	43	81070	6.587	ug/L #	93
49) Dibromochloromethane	8.47	129	42471	4.868	ug/L	95
50) 1,2-Dibromoethane	8.58	107	46155	5.155	ug/L	96
51) Chlorobenzene	9.12	112	116502	5.425	ug/L	98
52) Ethylbenzene	9.25	91	169508	4.517	ug/L	100
53) m,p-Xylene	9.37	106	59280	4.448	ug/L	94
54) o-xylene	9.78	106	57402	4.381	ug/L	99
55) Styrene	9.79	104	90965	4.076	ug/L	95
56) Isopropylbenzene	10.16	105	146995	4.298	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	76316	5.068	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	61852	5.085	ug/L	100
61) Bromoform	9.96	173	29261	4.913	ug/L	95
62) 1,3-Dichlorobenzene	11.41	146	69037	5.091	ug/L	96
63) 1,4-Dichlorobenzene	11.50	146	79508	5.643	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	74618	5.179	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	14111	4.382	ug/L	93
67) 1,3,5-Trichlorobenzene	12.89	180	47243	4.661	ug/L	97
68) 1,2,4-trichlorobenzene	13.51	180	30573	3.824	ug/L	92
69) Naphthalene	13.75	128	61600	2.250	ug/L	97
70) 1,2,3-Trichlorobenzene	13.99	180	32513	3.575	ug/L	94

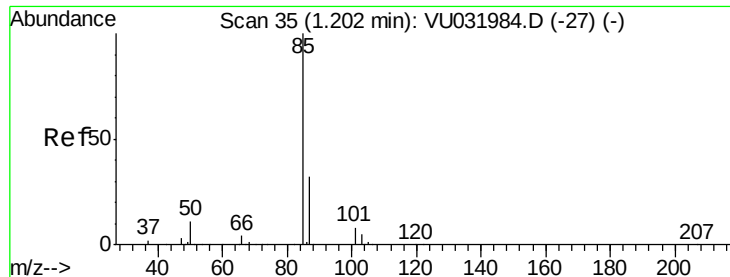
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.981 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

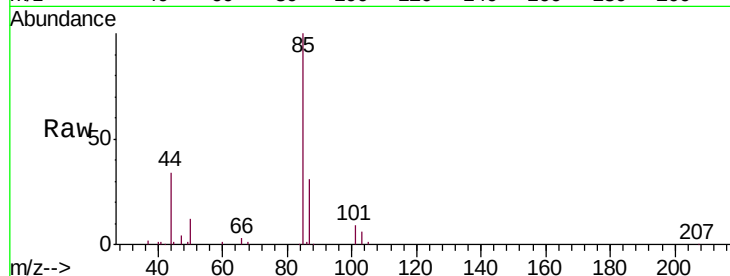
VSTD00550

Tgt Ion: 85 Resp: 52049

Ion Ratio Lower Upper

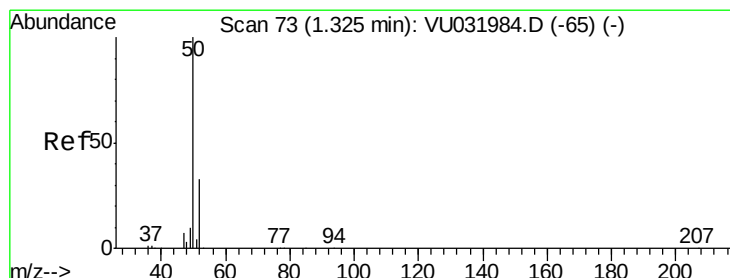
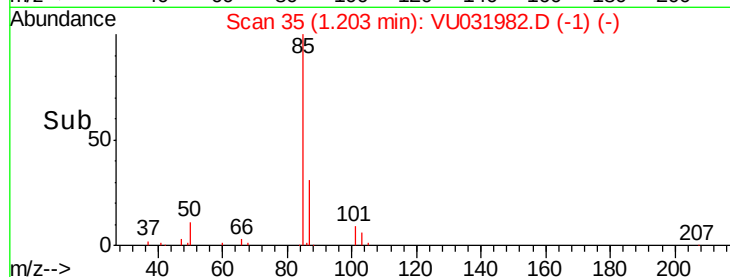
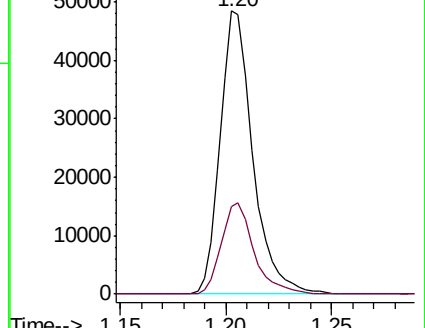
85 100

87 32.3 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031982.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031982.D (-1) (-)



#3

Chloromethane

Concen: 4.662 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031982.D

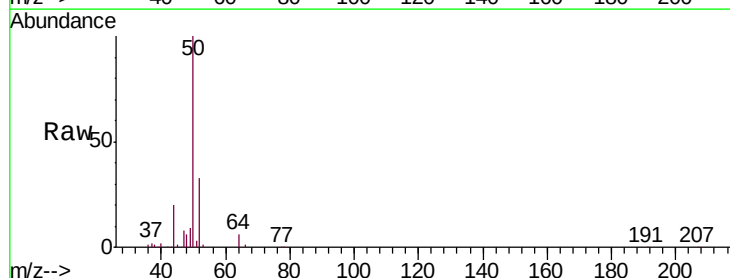
Acq: 14 May 2019 10:20

Tgt Ion: 50 Resp: 58231

Ion Ratio Lower Upper

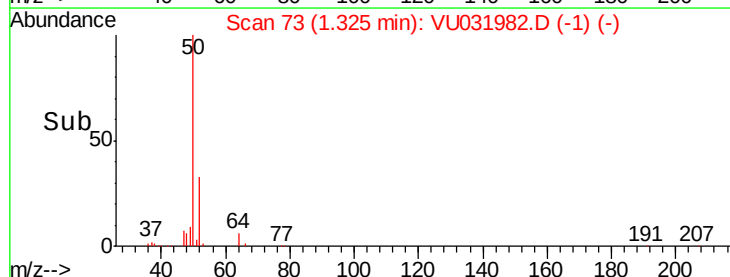
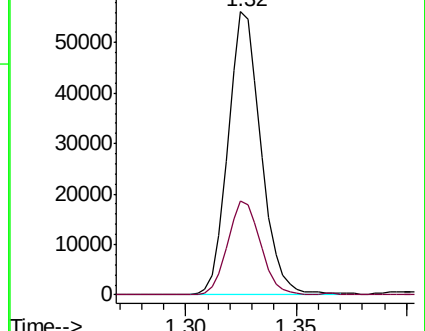
50 100

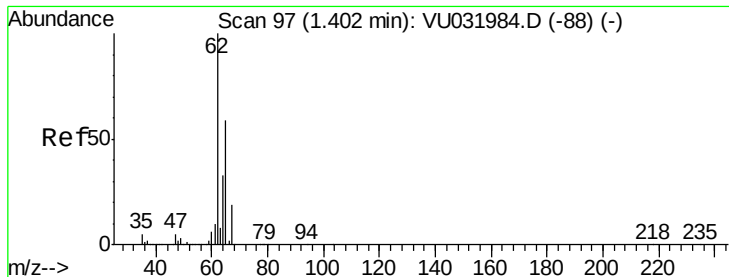
52 33.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU031982.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU031982.D (-1) (-)





#5

Vinyl chloride

Concen: 5.093 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

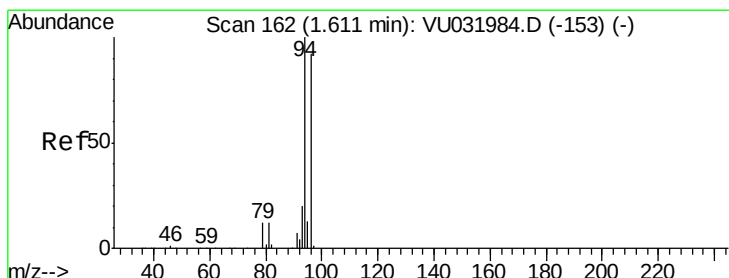
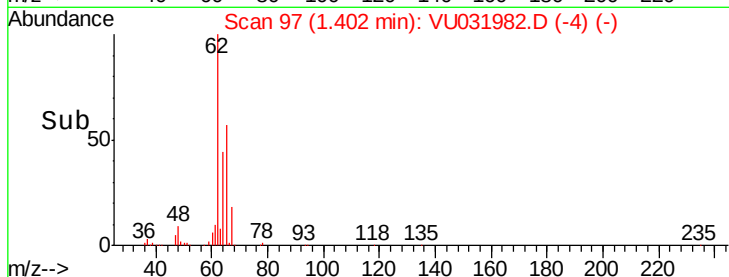
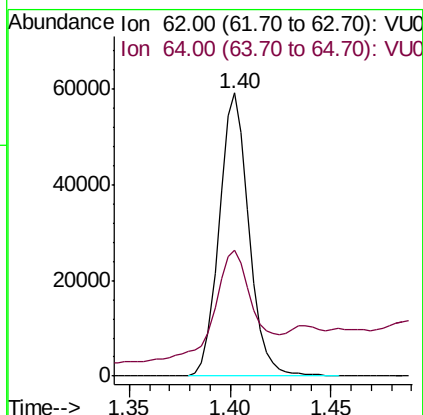
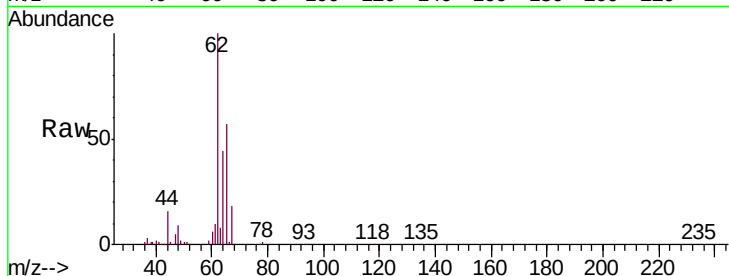
VSTD00550

Tgt Ion: 62 Resp: 60484

Ion Ratio Lower Upper

62 100

64 44.5 23.6 43.8#



#6

Bromomethane

Concen: 5.136 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU031982.D

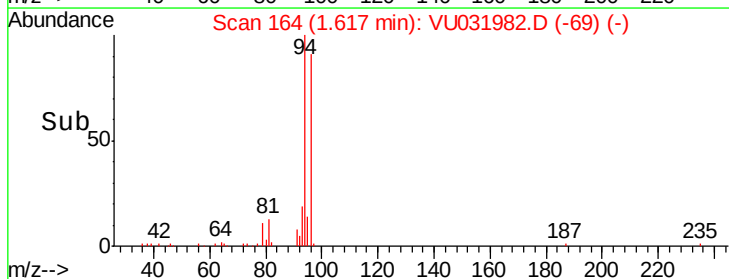
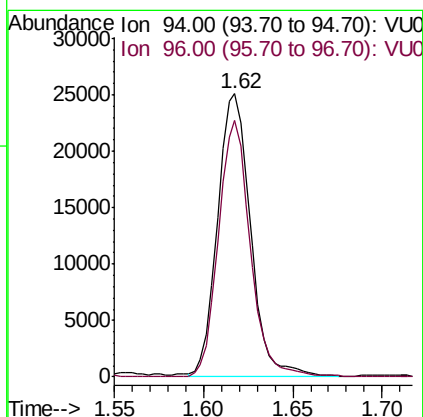
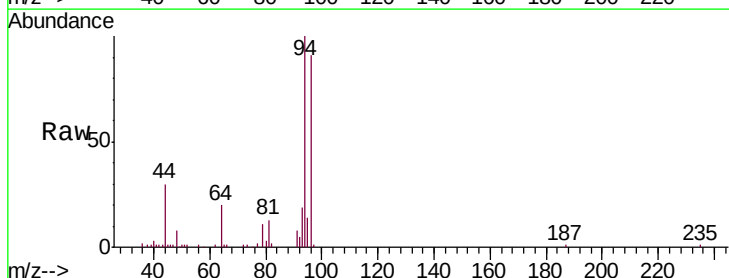
Acq: 14 May 2019 10:20

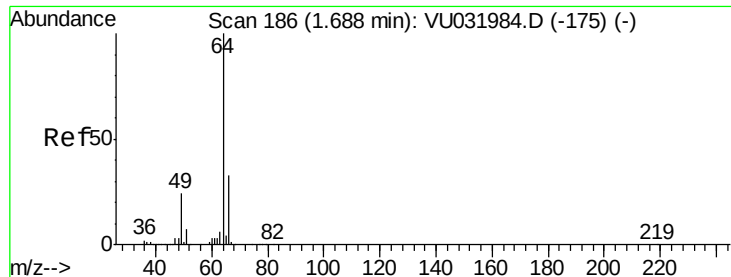
Tgt Ion: 94 Resp: 32294

Ion Ratio Lower Upper

94 100

96 90.8 64.0 118.8

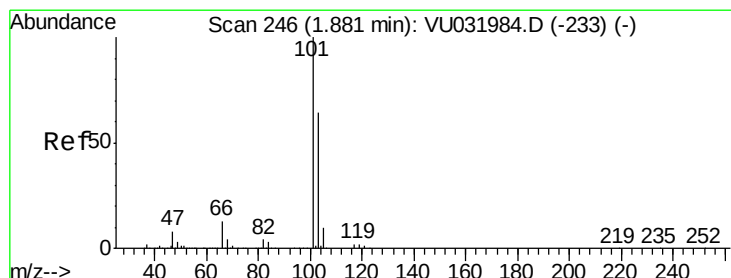
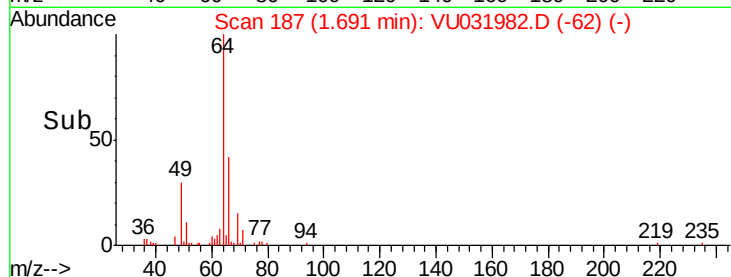
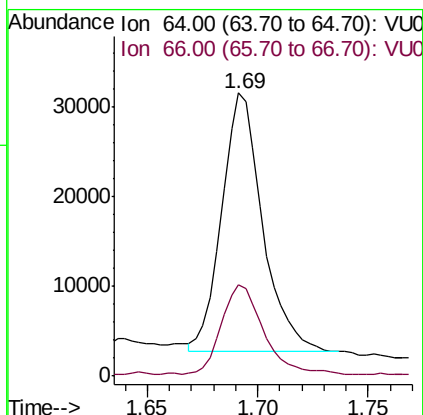
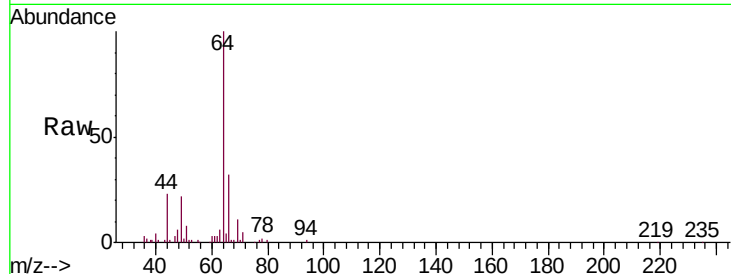




#8
Chloroethane
Concen: 5.625 ug/L
RT: 1.69 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

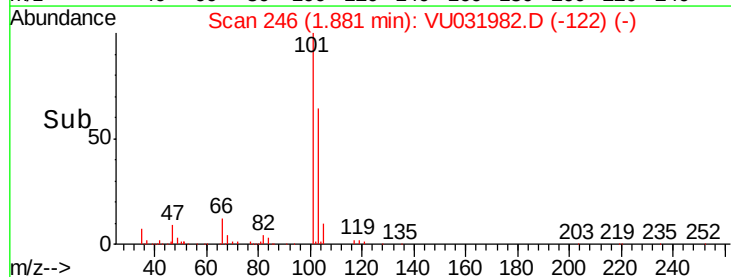
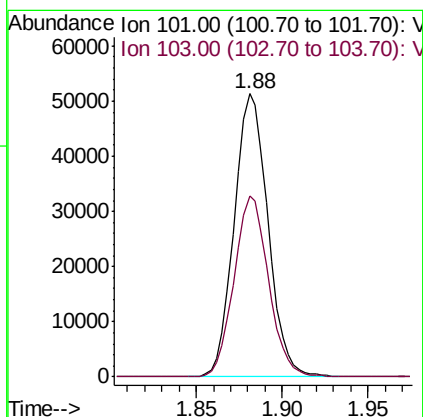
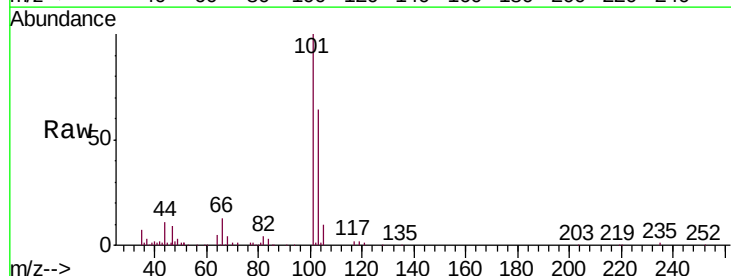
Instrument :
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ClientSampleId :
VSTD00550

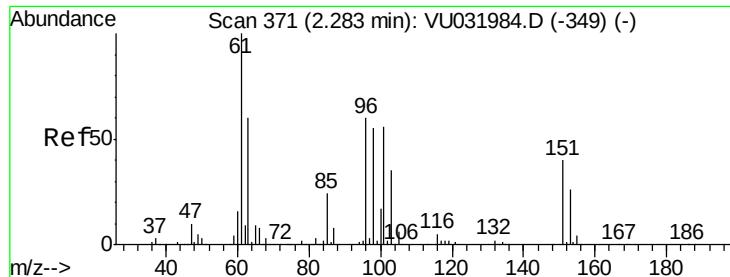
Tgt Ion: 64 Resp: 36853
Ion Ratio Lower Upper
64 100
66 32.2 22.7 42.1



#9
Trichlorofluoromethane
Concen: 5.195 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

Tgt Ion: 101 Resp: 70090
Ion Ratio Lower Upper
101 100
103 65.1 52.2 78.2





#10

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

Concen: 5.590 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00550

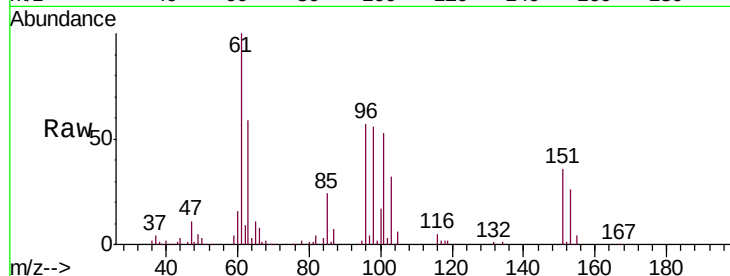
Tgt Ion: 101 Resp: 43363

Ion Ratio Lower Upper

101 100

85 42.1 34.1 51.1

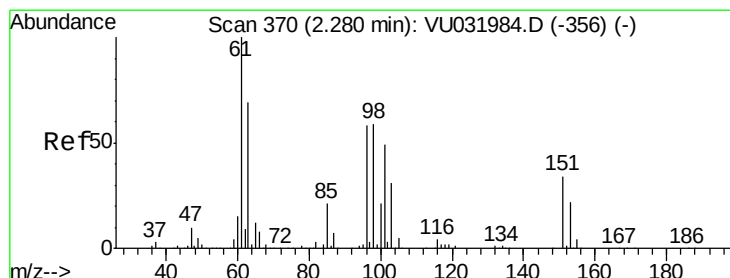
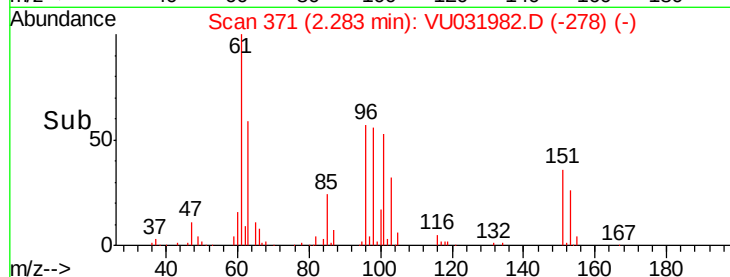
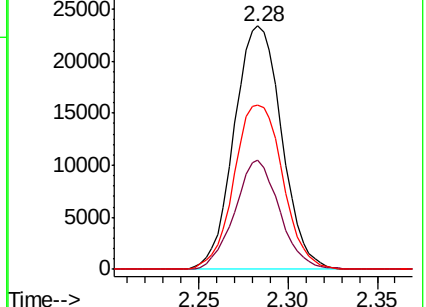
151 69.5 55.8 83.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.388 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

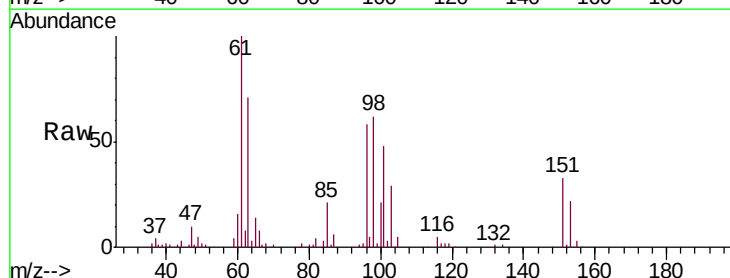
Tgt Ion: 96 Resp: 40807

Ion Ratio Lower Upper

96 100

61 173.1 120.9 224.5

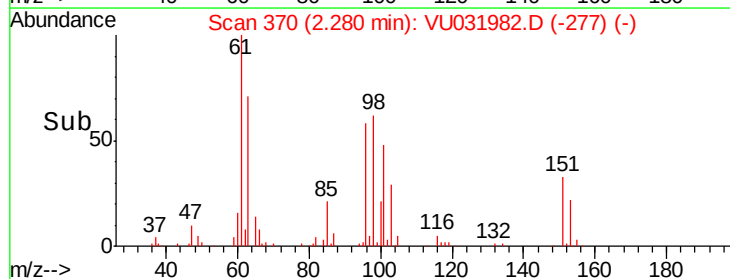
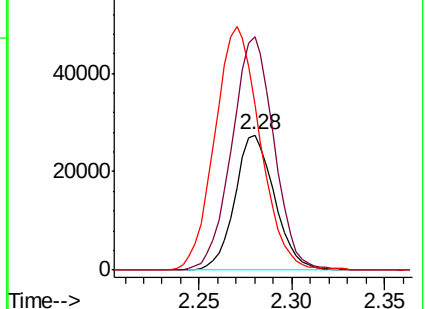
63 122.9 84.4 156.8

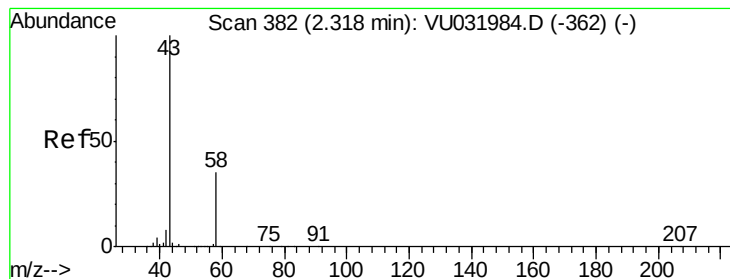


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 9.229 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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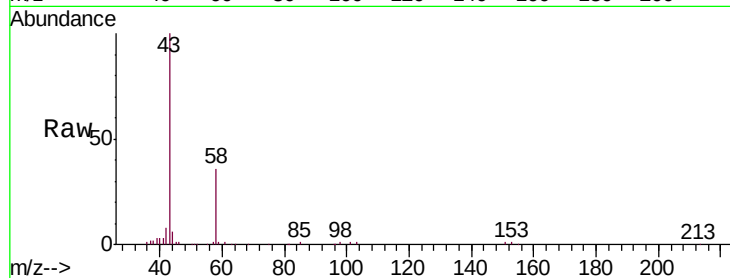
VSTD00550

Tgt Ion: 43 Resp: 73436

Ion Ratio Lower Upper

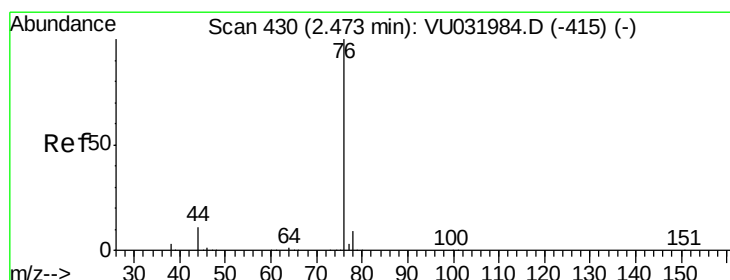
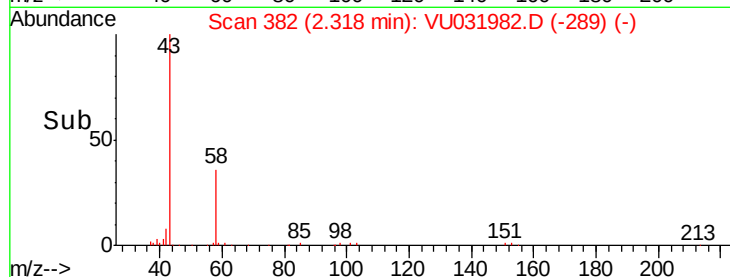
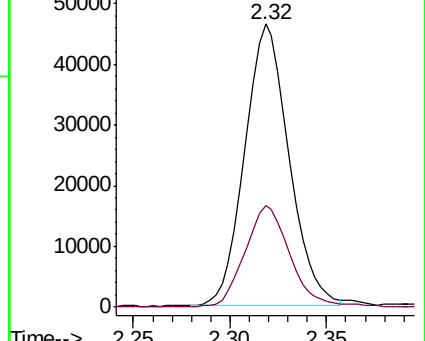
43 100

58 36.5 0.0 68.2



Abundance Ion 43.00 (42.70 to 43.70): VU031984.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU031984.D (-362) (-)



#14

Carbon disulfide

Concen: 5.265 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031982.D

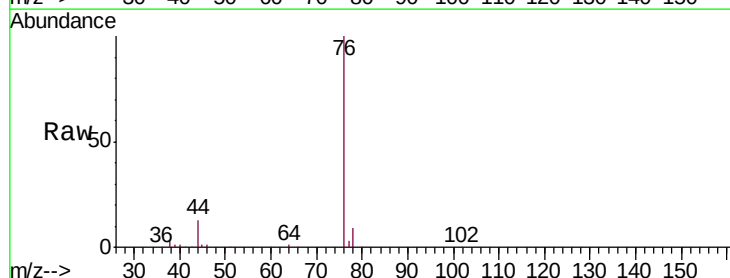
Acq: 14 May 2019 10:20

Tgt Ion: 76 Resp: 131694

Ion Ratio Lower Upper

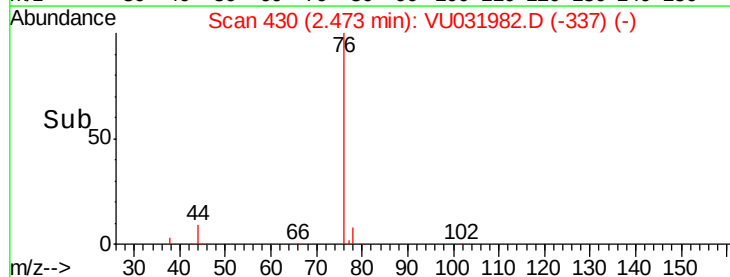
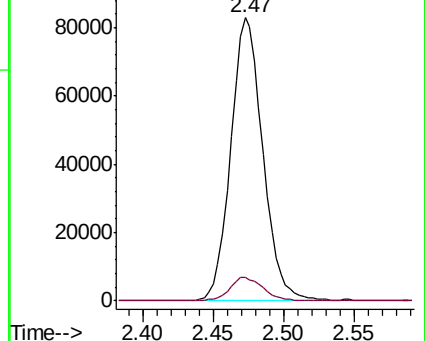
76 100

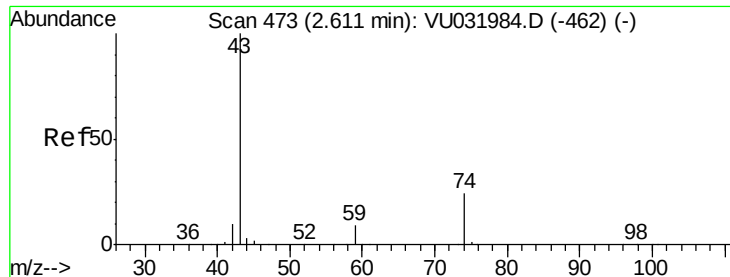
78 8.5 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU031984.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU031984.D (-415) (-)

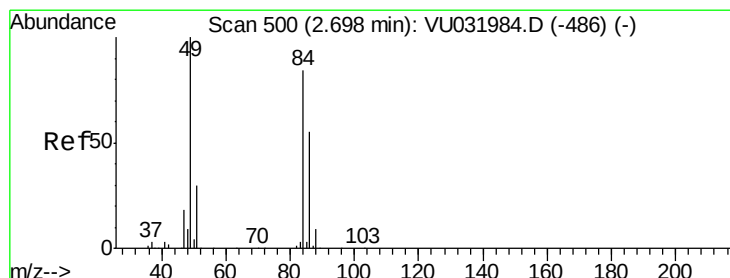
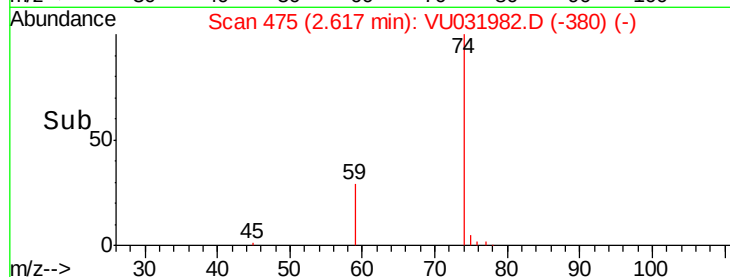
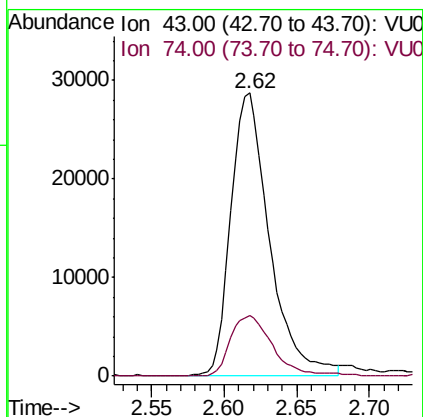
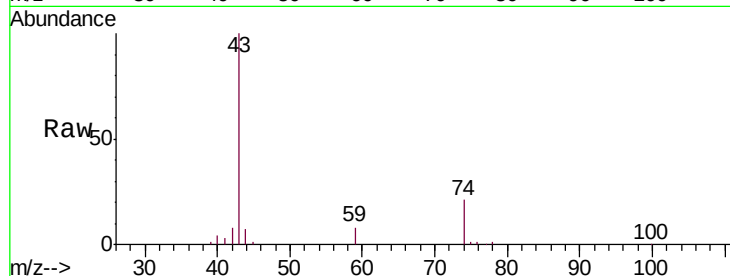




#15
Methyl Acetate
Concen: 4.445 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.01 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

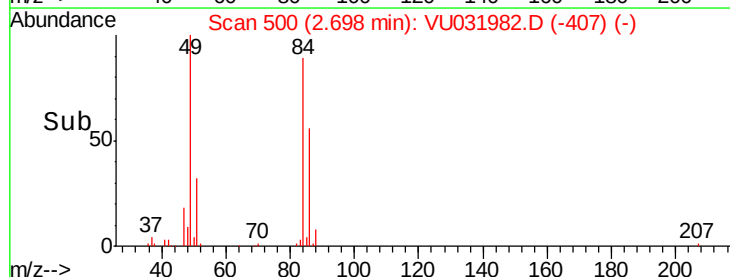
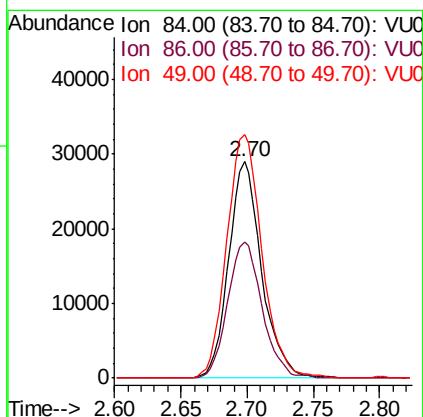
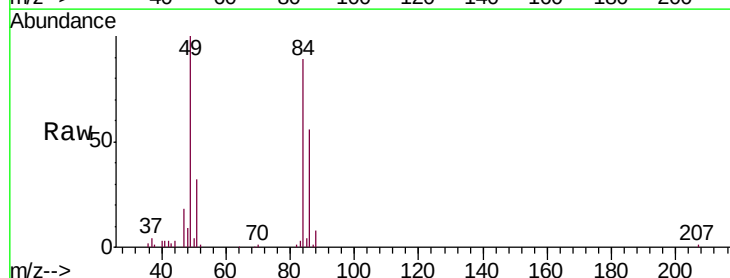
Instrument :
MSVOA_U
ClientSampleId :
VSTD00550

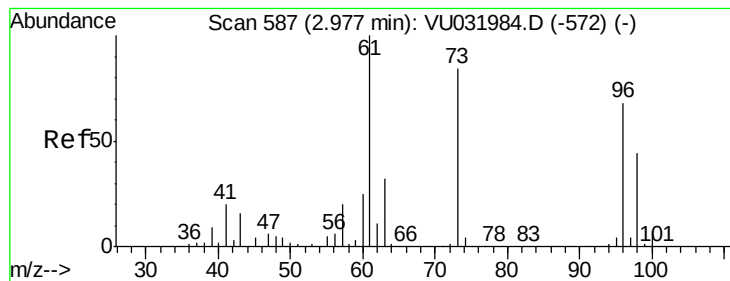
Tgt Ion: 43 Resp: 53474
Ion Ratio Lower Upper
43 100
74 23.0 0.0 0.0#



#16
Methylene chloride
Concen: 5.585 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

Tgt Ion: 84 Resp: 50188
Ion Ratio Lower Upper
84 100
86 63.1 45.8 85.0
49 112.6 83.3 154.7





#17

trans-1,2-Dichloroethene

Concen: 5.336 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00550

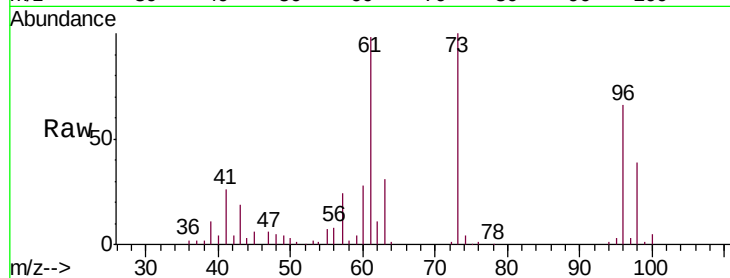
Tgt Ion: 96 Resp: 42250

Ion Ratio Lower Upper

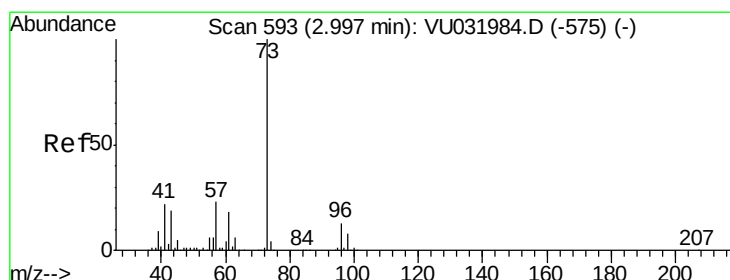
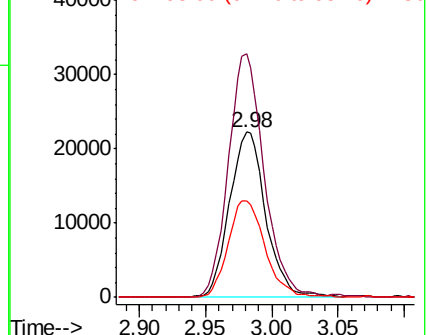
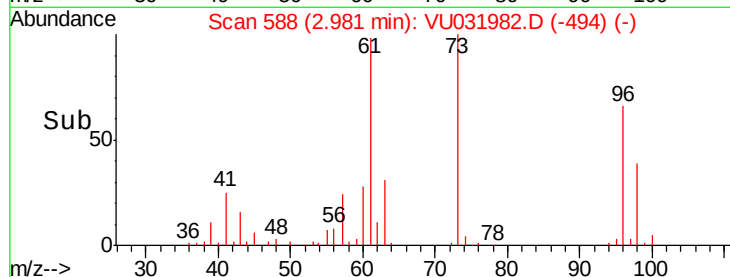
96 100

61 147.5 103.2 191.6

98 58.4 45.7 84.9



Abundance Ion 96.00 (95.70 to 96.70): VU031982.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 4.748 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

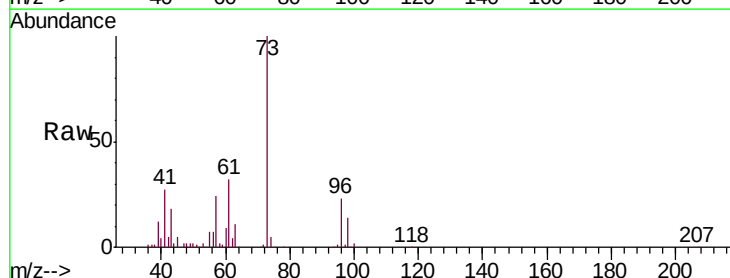
Tgt Ion: 73 Resp: 118661

Ion Ratio Lower Upper

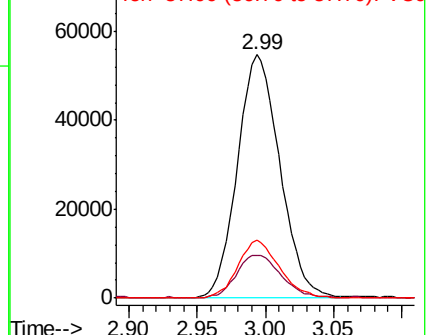
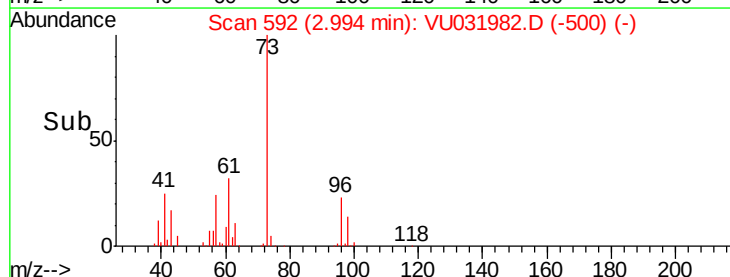
73 100

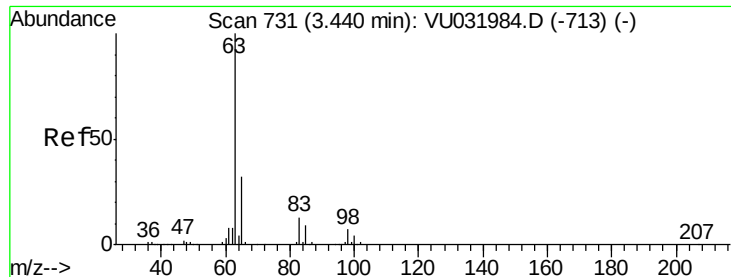
43 18.8 15.1 22.7

57 23.3 18.2 27.4



Abundance Ion 73.00 (72.70 to 73.70): VU031982.D (-500) (-)

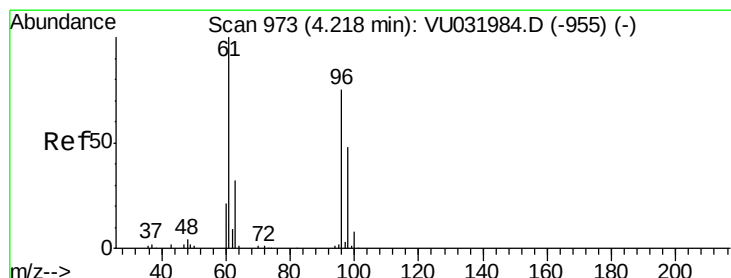
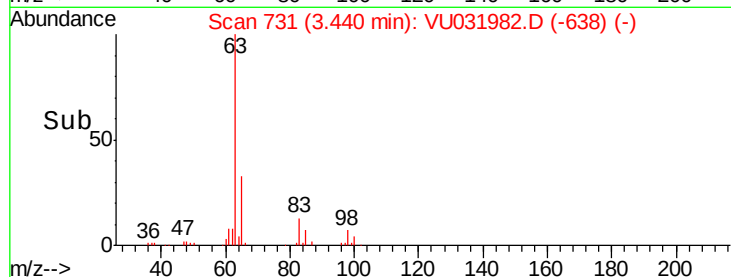
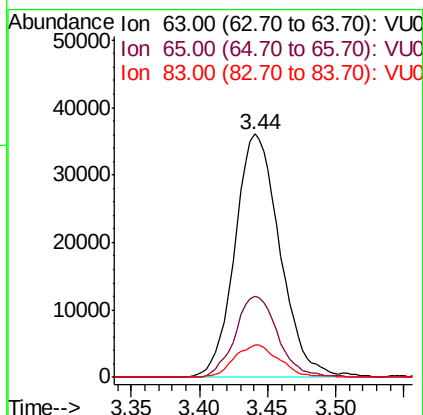
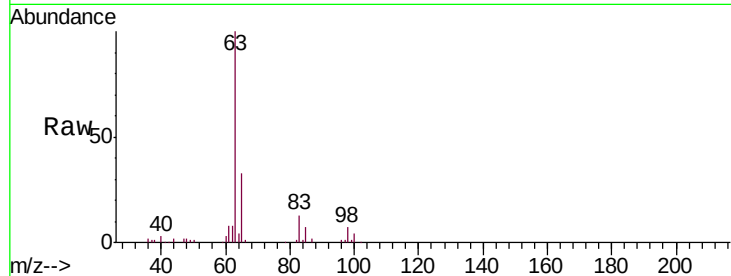




#19
 1,1-Dichloroethane
 Concen: 5.036 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

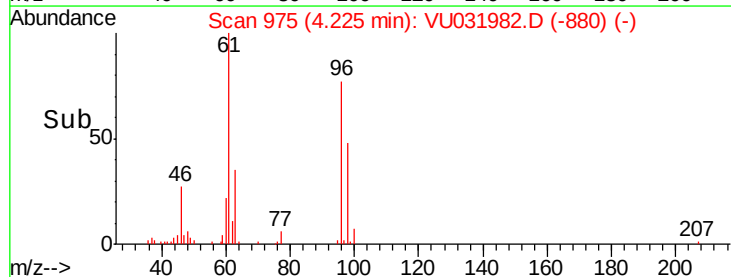
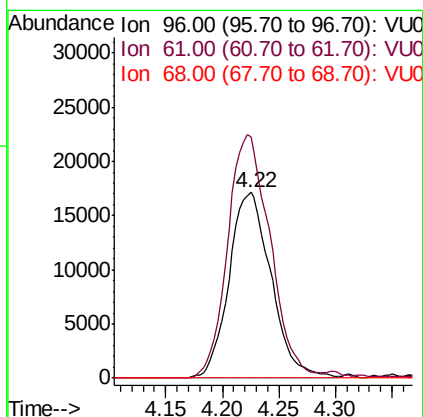
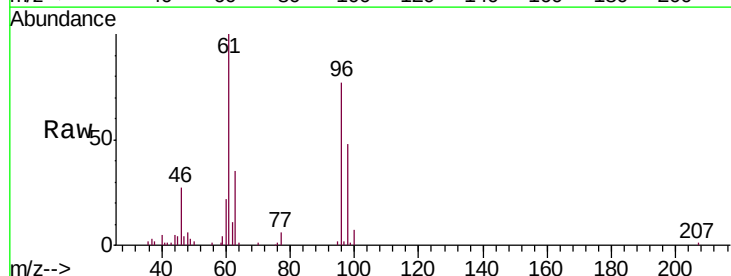
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00550

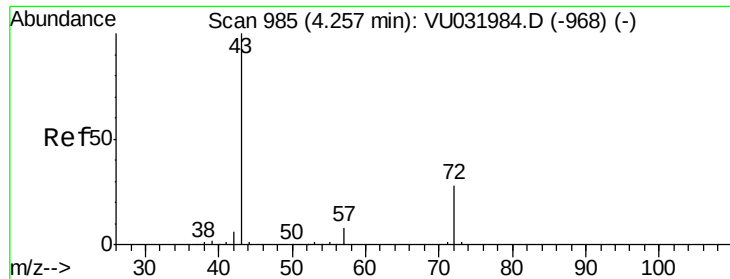
Tgt Ion: 63 Resp: 82364
 Ion Ratio Lower Upper
 63 100
 65 33.1 22.2 41.2
 83 13.3 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 5.216 ug/L
 RT: 4.22 min Scan# 975
 Delta R.T. 0.01 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

Tgt Ion: 96 Resp: 44404
 Ion Ratio Lower Upper
 96 100
 61 130.1 93.0 172.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 7.879 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.01 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampled :

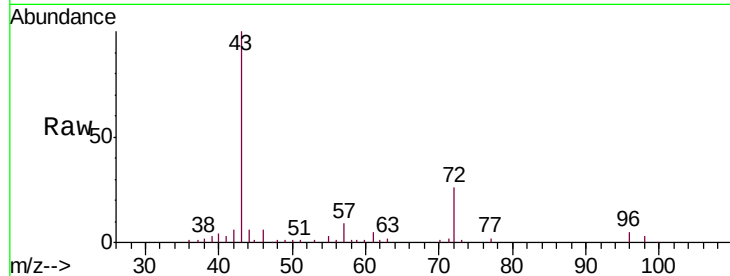
VSTD00550

Tgt Ion: 43 Resp: 69722

Ion Ratio Lower Upper

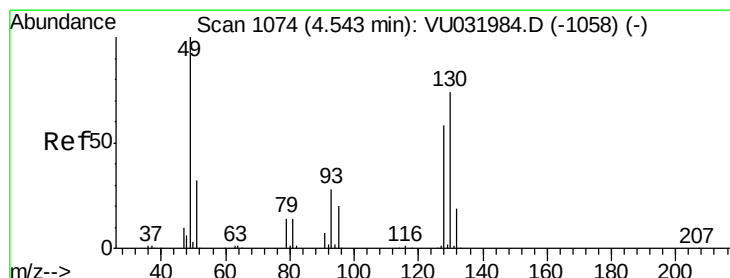
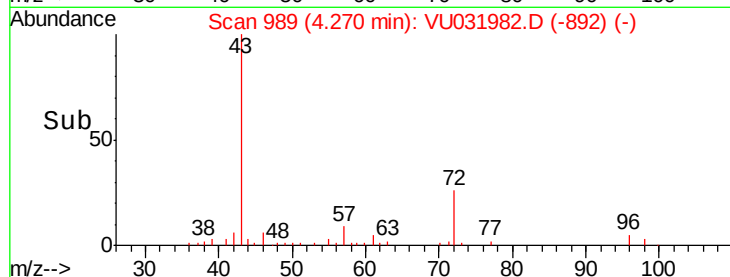
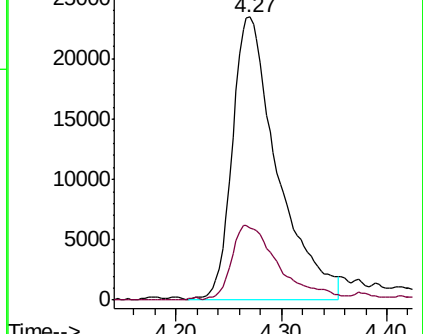
43 100

72 27.8 13.9 41.7



Abundance Ion 43.00 (42.70 to 43.70): VU031982.D (-989) (-)

Ion 72.00 (71.70 to 72.70): VU031982.D (-989) (-)



#23

Bromochloromethane

Concen: 5.399 ug/L

RT: 4.55 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Tgt Ion: 128 Resp: 22436

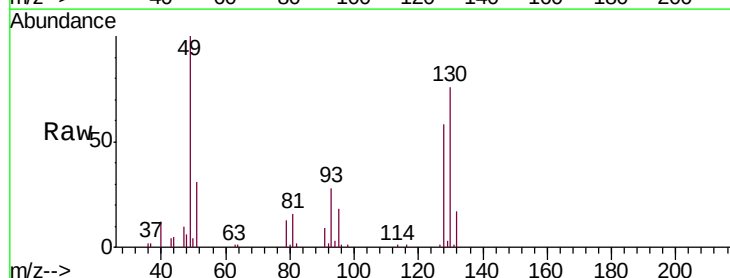
Ion Ratio Lower Upper

128 100

49 173.7 121.7 226.1

130 132.0 89.5 166.1

51 54.4 44.1 66.1

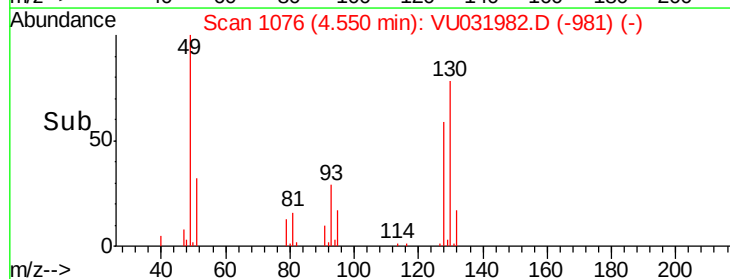
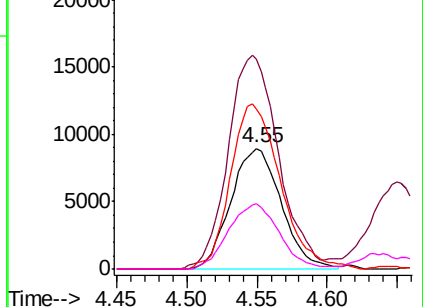


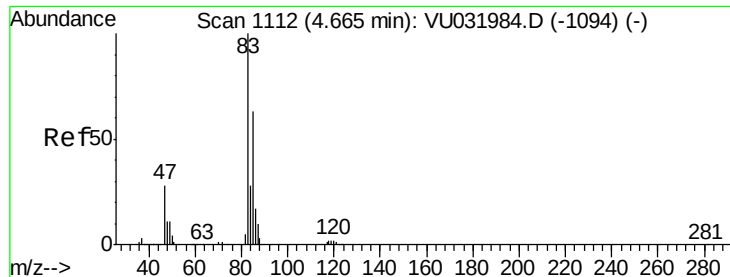
Abundance Ion 128.00 (127.70 to 128.70): VU031982.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU031982.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU031982.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU031982.D (-981) (-)

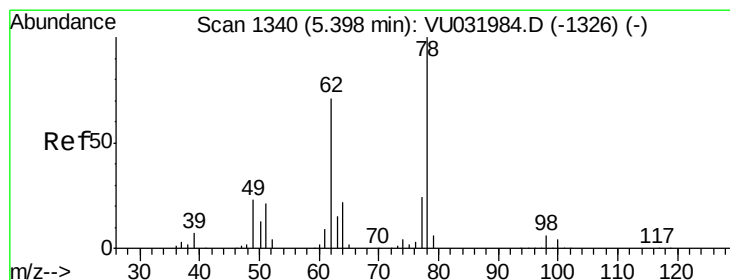
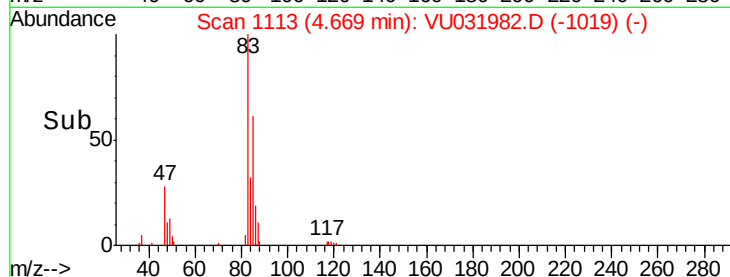
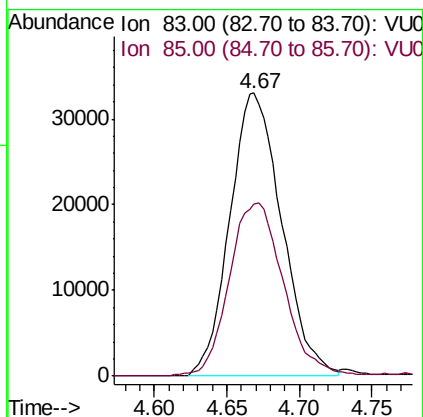
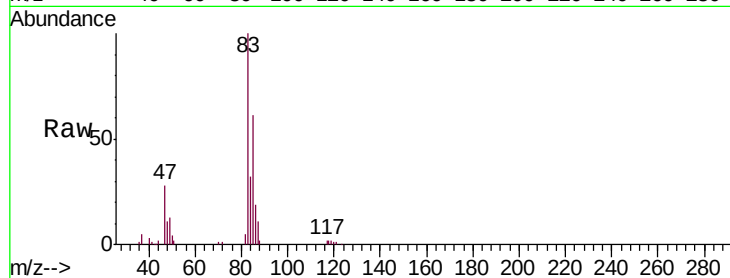




#25
Chloroform
Concen: 5.229 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

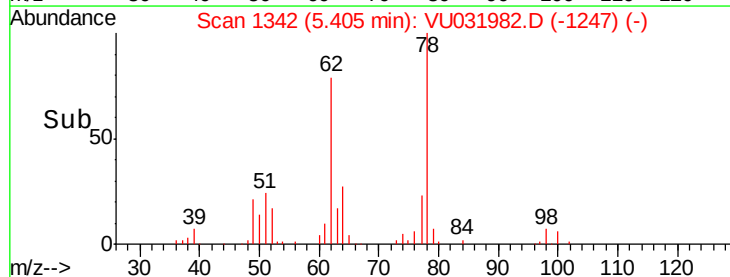
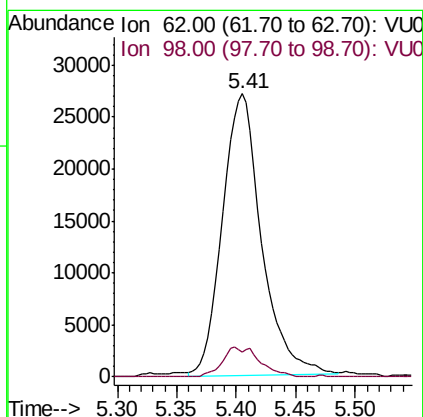
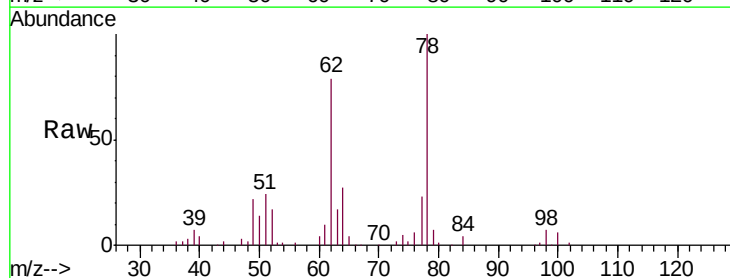
Instrument :
MSVOA_U
ClientSampleId :
VSTD00550

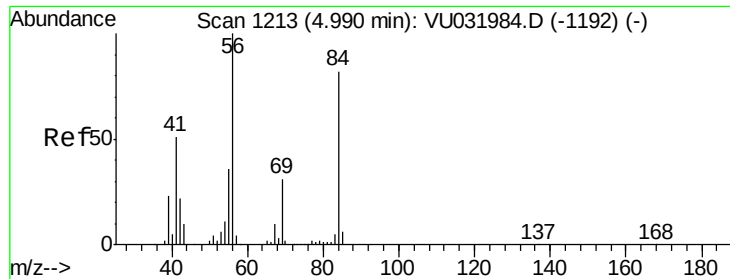
Tgt Ion: 83 Resp: 82192
Ion Ratio Lower Upper
83 100
85 60.6 44.2 82.2



#27
1,2-Dichloroethane
Concen: 4.878 ug/L
RT: 5.41 min Scan# 1342
Delta R.T. 0.01 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

Tgt Ion: 62 Resp: 61990
Ion Ratio Lower Upper
62 100
98 8.9 7.2 10.8





#29

Cyclohexane

Concen: 3.689 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00550

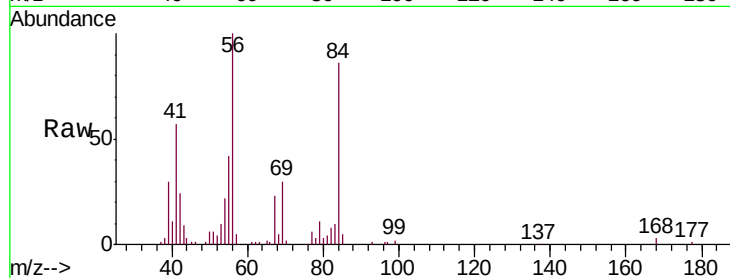
Tgt Ion: 56 Resp: 55979

Ion Ratio Lower Upper

56 100

69 30.6 24.8 37.2

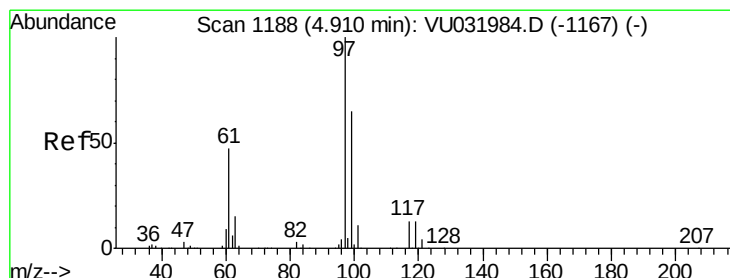
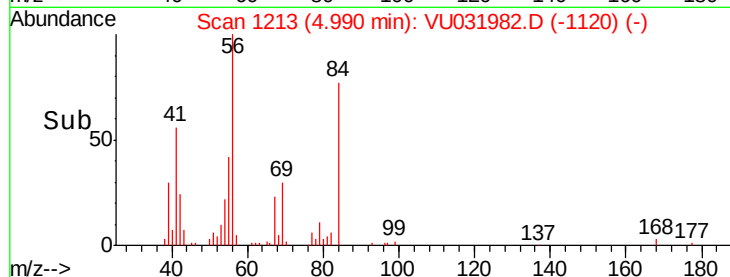
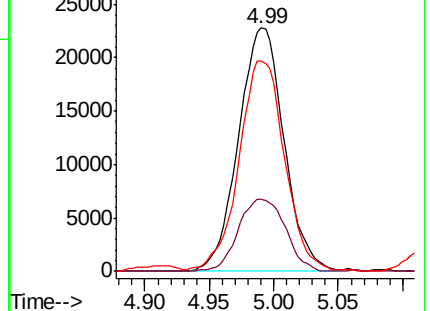
84 86.8 65.5 98.3



Abundance Ion 56.00 (55.70 to 56.70): VU031982.D (-1120) (-)

Ion 69.00 (68.70 to 69.70): VU031982.D (-1120) (-)

Ion 84.00 (83.70 to 84.70): VU031982.D (-1120) (-)



#30

1,1,1-Trichloroethane

Concen: 4.812 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

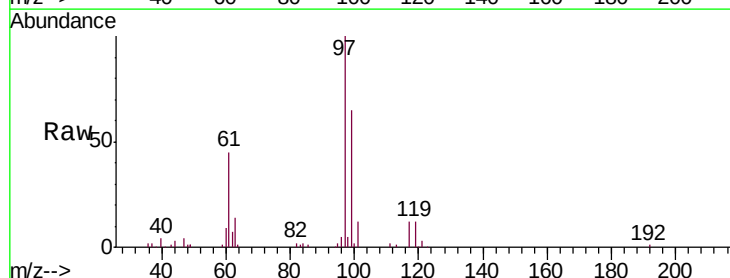
Tgt Ion: 97 Resp: 64975

Ion Ratio Lower Upper

97 100

99 62.3 51.8 77.8

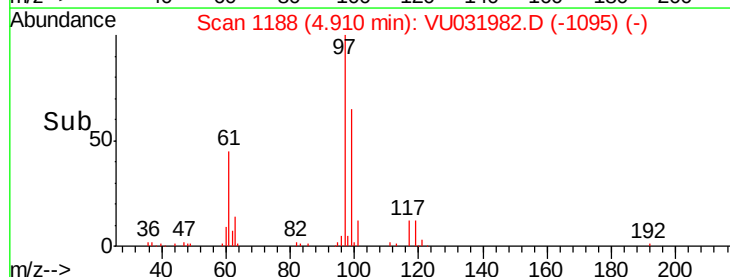
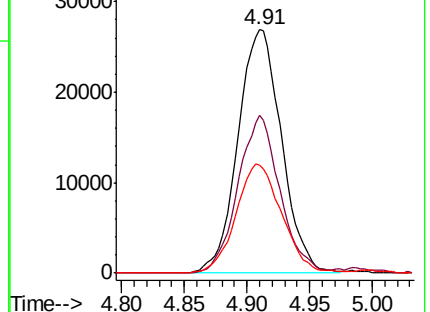
61 47.0 37.5 56.3

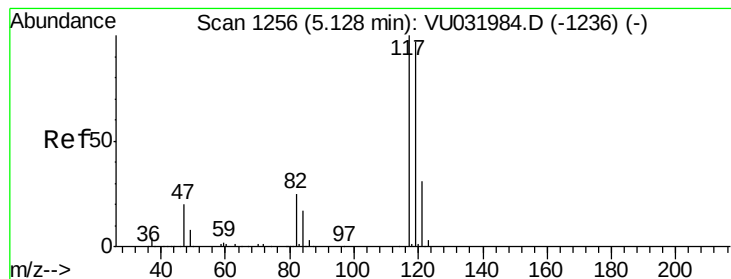


Abundance Ion 97.00 (96.70 to 97.70): VU031982.D (-1095) (-)

Ion 99.00 (98.70 to 99.70): VU031982.D (-1095) (-)

Ion 61.05 (60.75 to 61.75): VU031982.D (-1095) (-)





#31

Carbon tetrachloride

Concen: 4.659 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

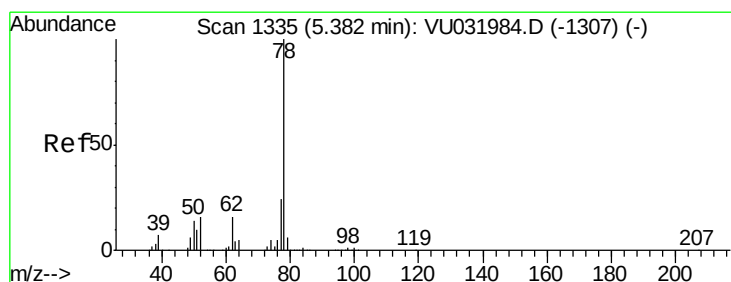
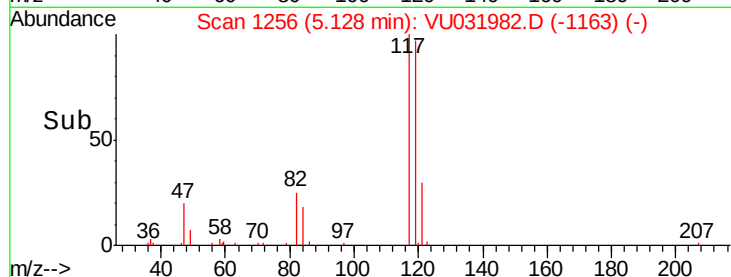
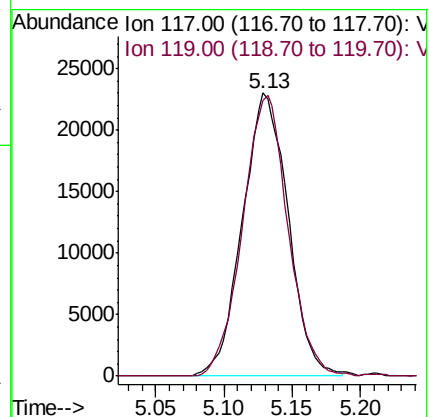
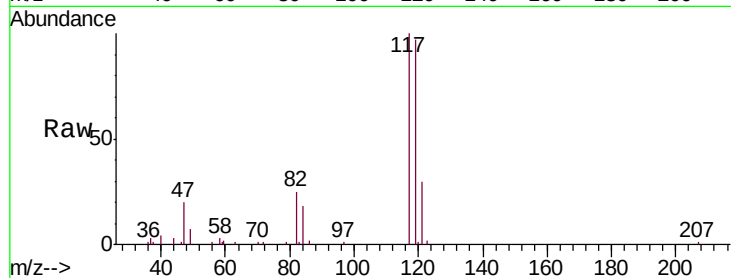
VSTD00550

Tgt Ion:117 Resp: 53549

Ion Ratio Lower Upper

117 100

119 98.2 77.2 115.8



#33

Benzene

Concen: 4.888 ug/L

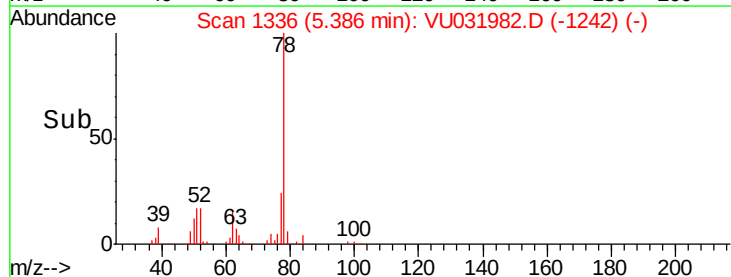
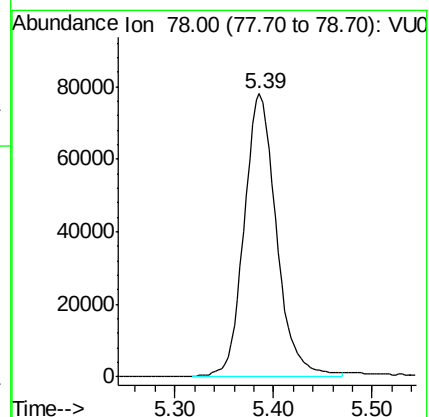
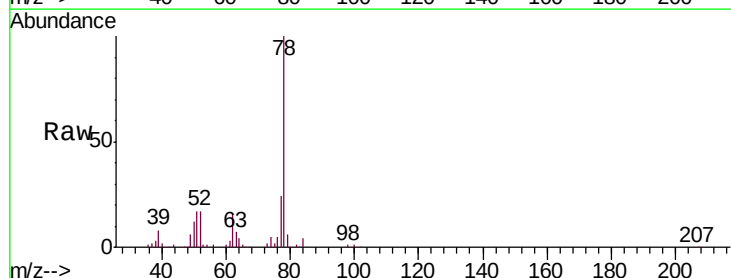
RT: 5.39 min Scan# 1336

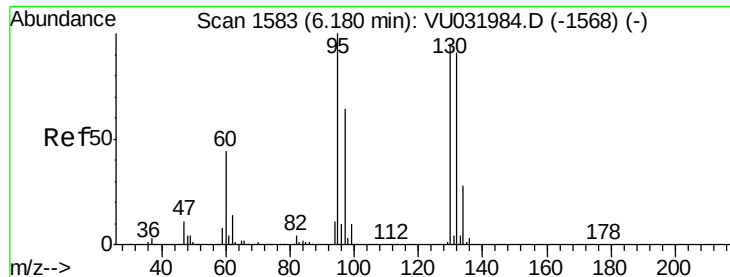
Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Tgt Ion: 78 Resp: 175726





#34

Trichloroethene

Concen: 5.094 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00550

Tgt Ion: 95 Resp: 44364

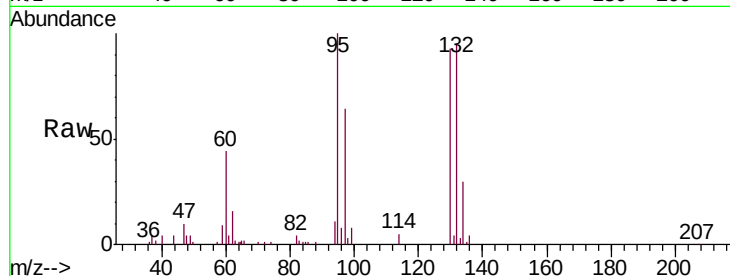
Ion Ratio Lower Upper

95 100

97 64.5 44.9 83.3

132 94.7 63.5 117.9

130 93.4 66.2 123.0

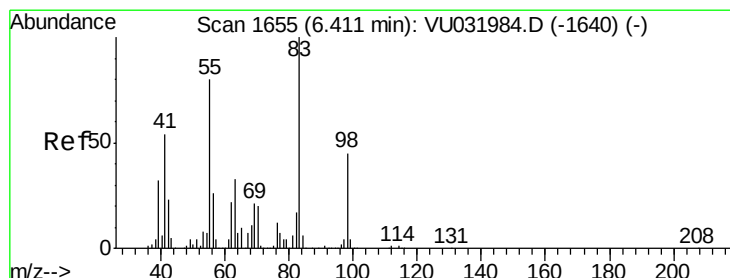
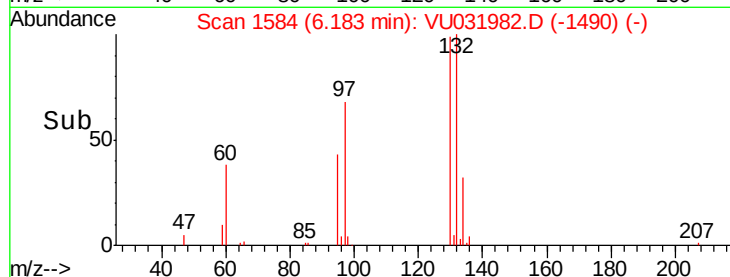
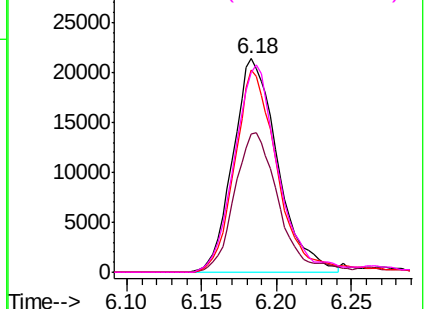


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.795 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

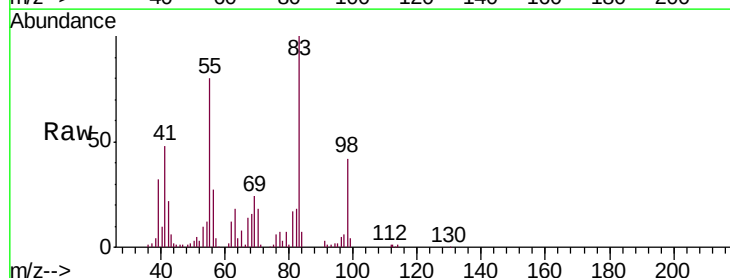
Tgt Ion: 83 Resp: 63189

Ion Ratio Lower Upper

83 100

55 83.0 64.0 96.0

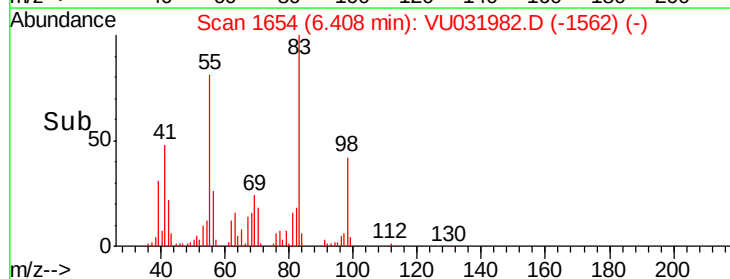
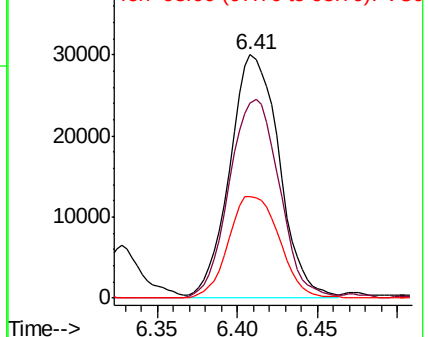
98 43.0 35.6 53.4

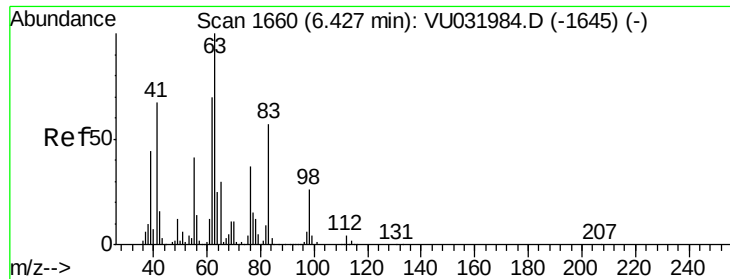


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

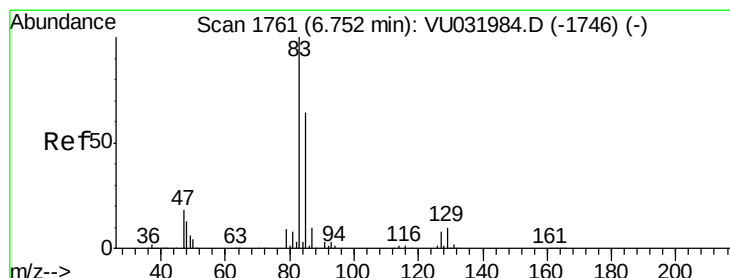
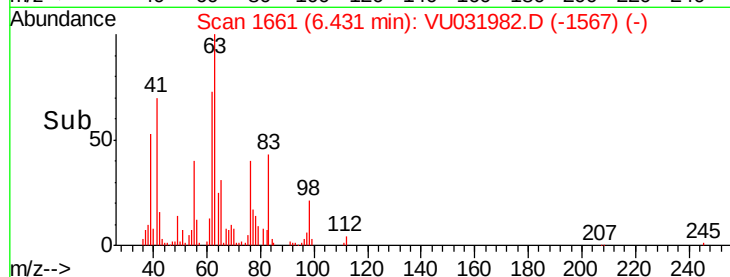
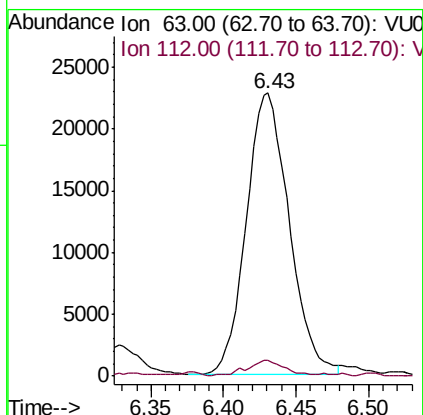
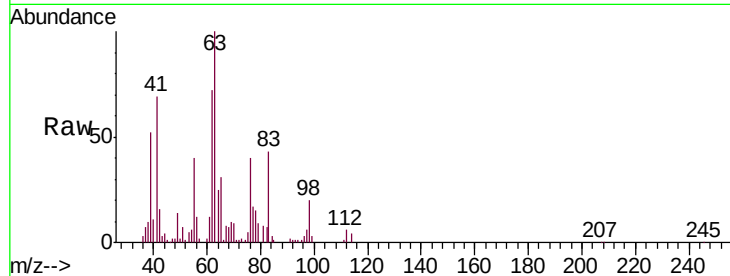




#37
 1,2-Dichloropropane
 Concen: 4.645 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

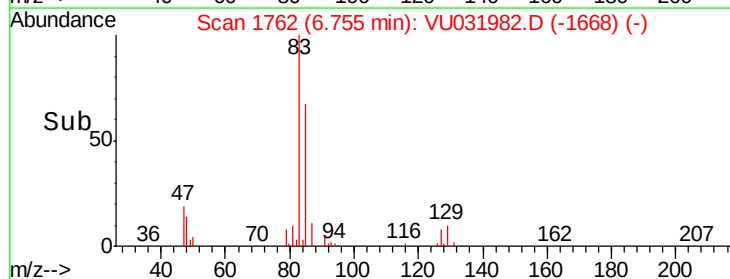
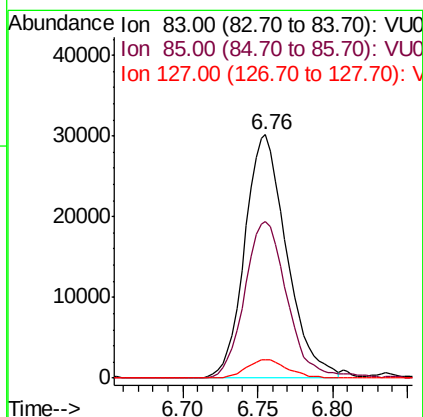
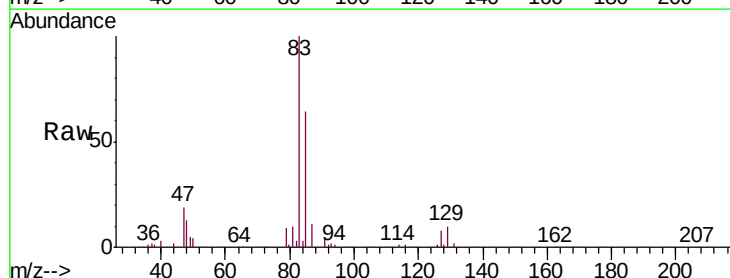
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00550

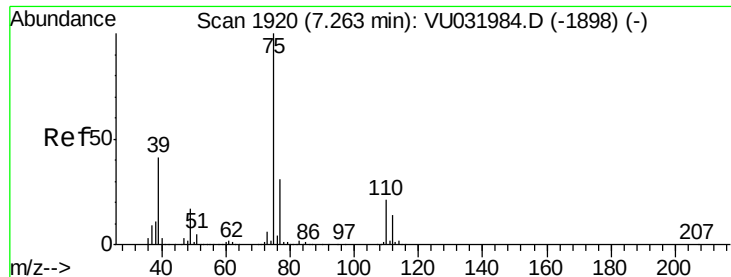
Tgt Ion: 63 Resp: 46921
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.0 4.4



#38
 Bromodichloromethane
 Concen: 4.810 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

Tgt Ion: 83 Resp: 58810
 Ion Ratio Lower Upper
 83 100
 85 64.4 44.7 82.9
 127 7.7 6.5 9.7



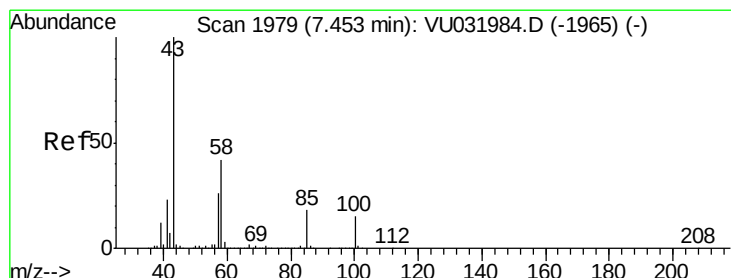
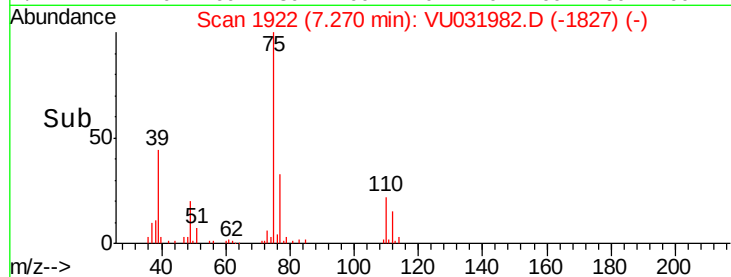
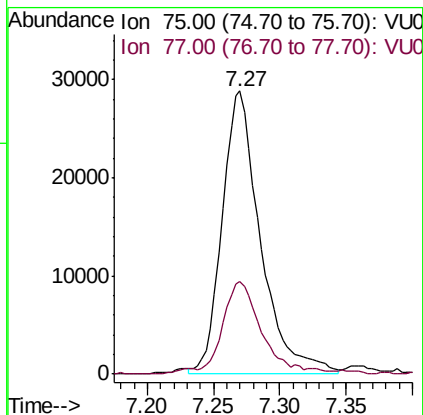
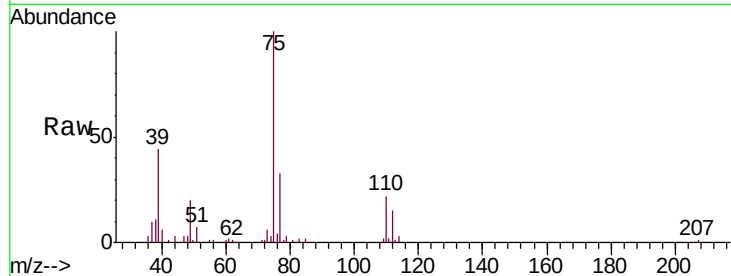


#39

cis-1,3-Dichloropropene
Concen: 4.263 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD00550

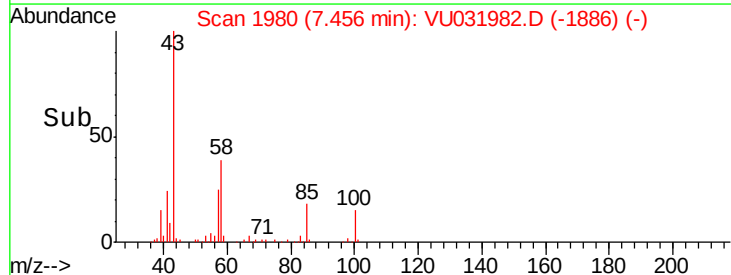
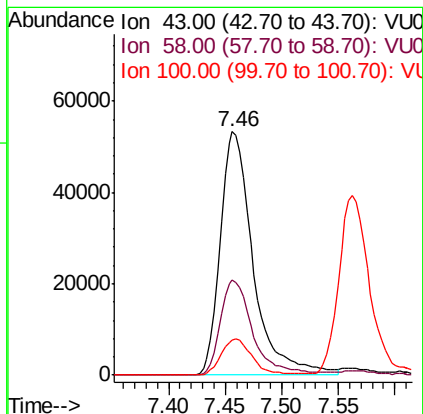
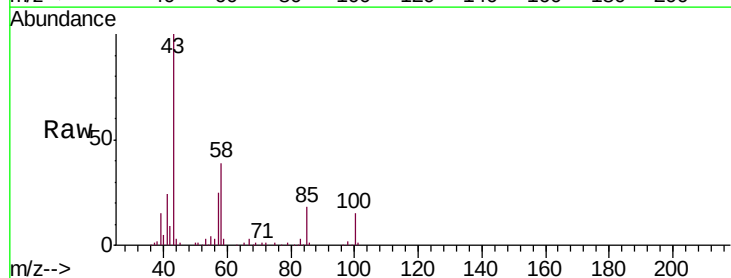
Tgt Ion: 75 Resp: 58092
Ion Ratio Lower Upper
75 100
77 32.6 21.8 40.6

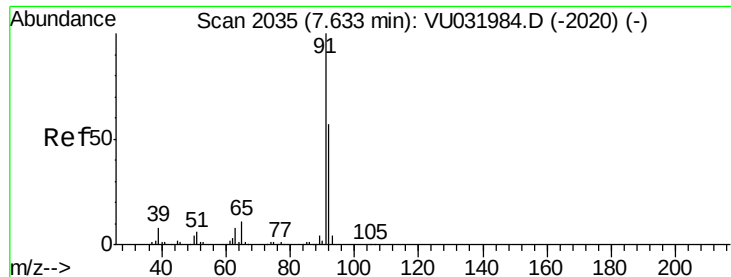


#40

4-Methyl-2-pentanone
Concen: 7.066 ug/L
RT: 7.46 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

Tgt Ion: 43 Resp: 108035
Ion Ratio Lower Upper
43 100
58 38.2 33.6 50.4
100 14.2 11.8 17.8





#42

Toluene

Concen: 4.555 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

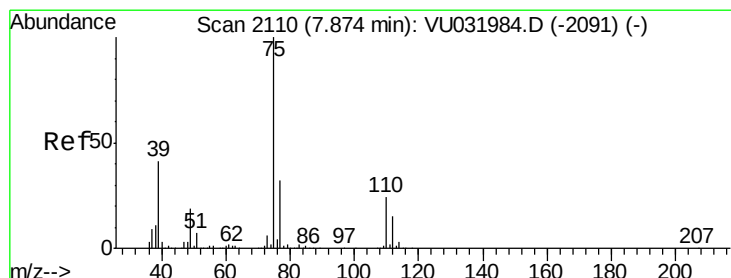
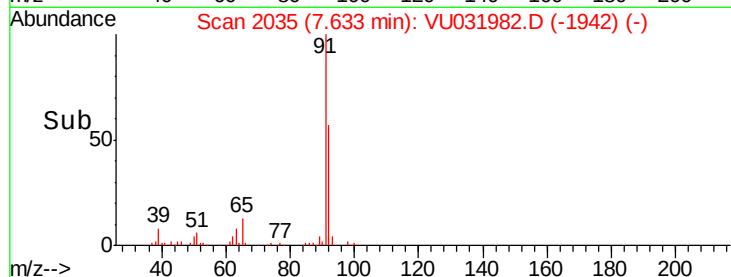
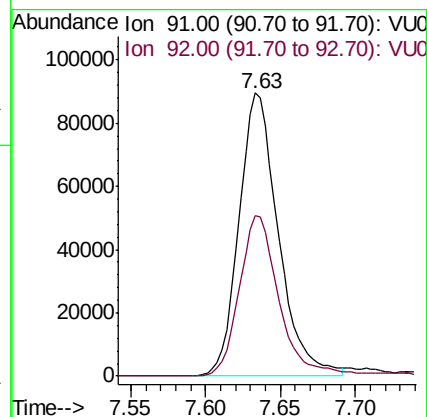
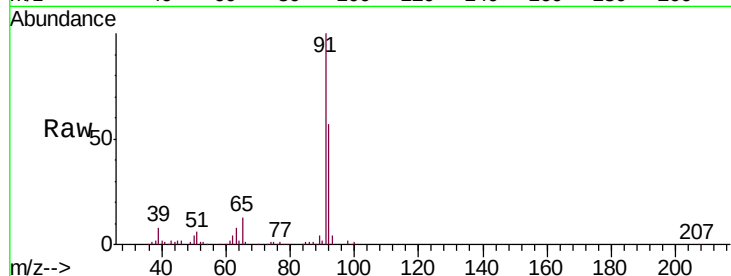
VSTD00550

Tgt Ion: 91 Resp: 164228

Ion Ratio Lower Upper

91 100

92 56.6 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 4.270 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.01 min

Lab File: VU031982.D

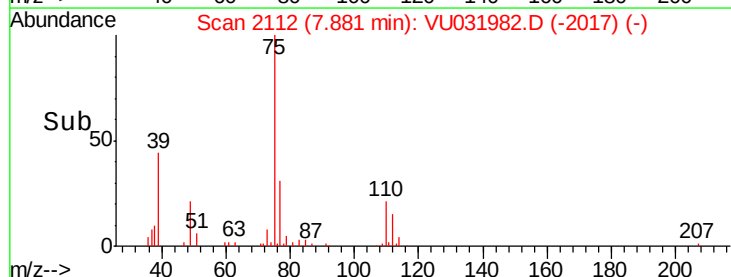
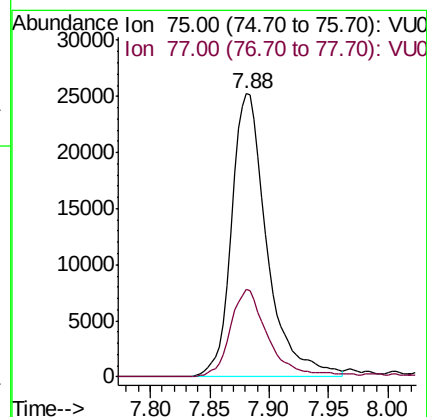
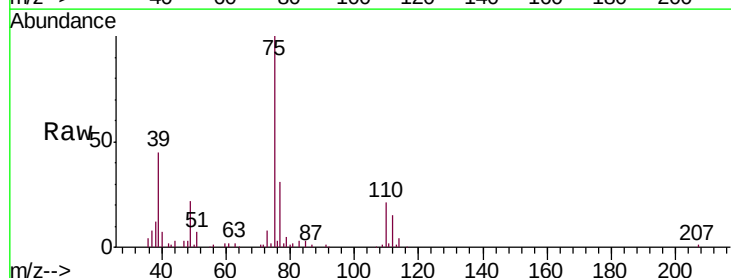
Acq: 14 May 2019 10:20

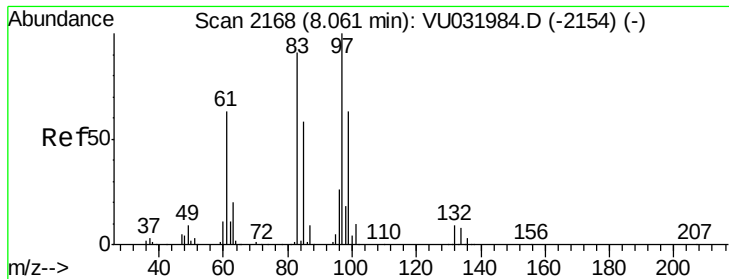
Tgt Ion: 75 Resp: 52138

Ion Ratio Lower Upper

75 100

77 30.9 22.5 41.7





#45

1,1,2-Trichloroethane

Concen: 5.141 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00550

Tgt Ion: 97 Resp: 43352

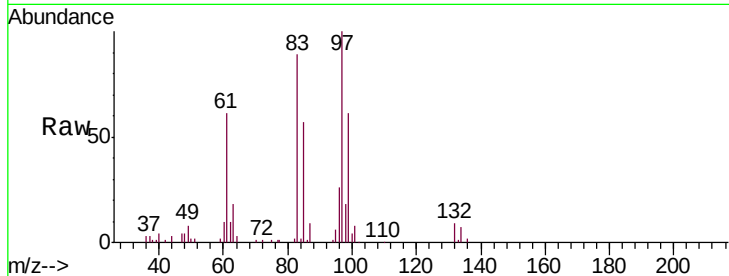
Ion Ratio Lower Upper

97 100

99 60.5 44.4 82.4

83 88.6 63.8 118.4

85 56.6 40.7 75.5



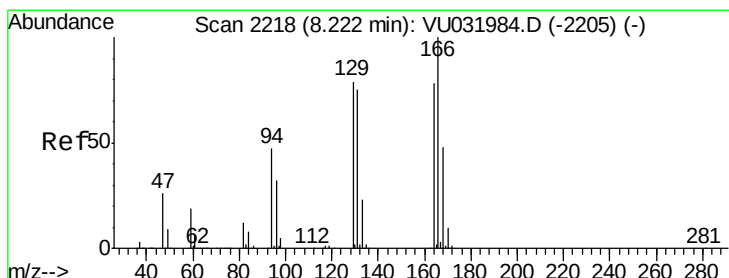
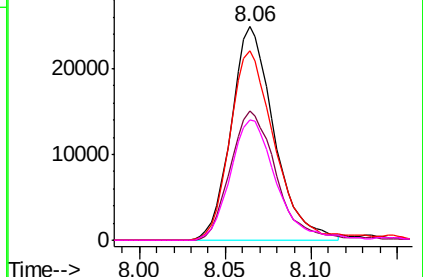
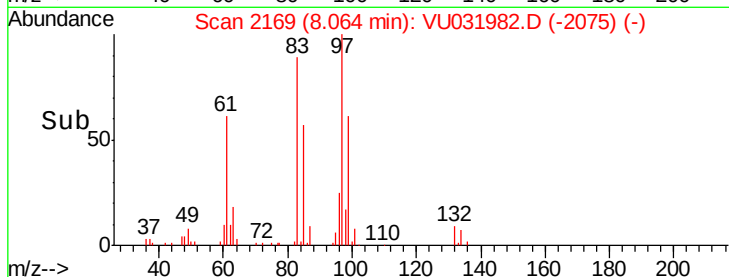
Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->



#46

Tetrachloroethene

Concen: 5.191 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Tgt Ion: 164 Resp: 31201

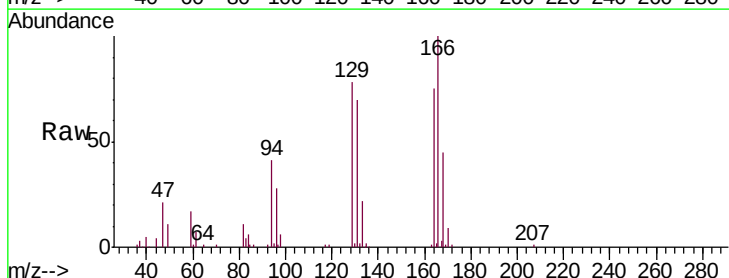
Ion Ratio Lower Upper

164 100

129 103.3 70.9 131.7

131 92.6 67.4 125.2

166 133.2 90.2 167.4



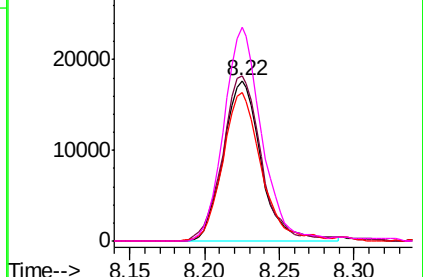
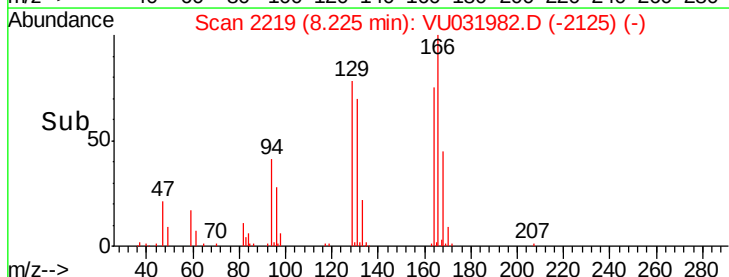
Abundance Ion 164.00 (163.70 to 164.70): V

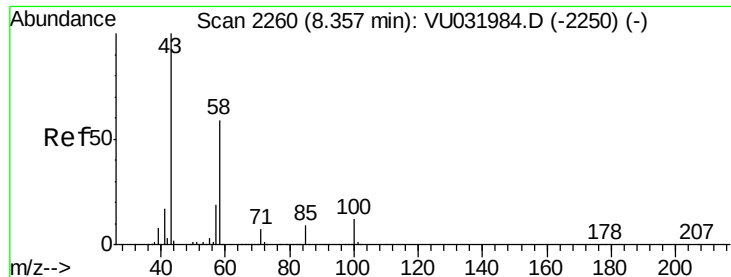
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time-->

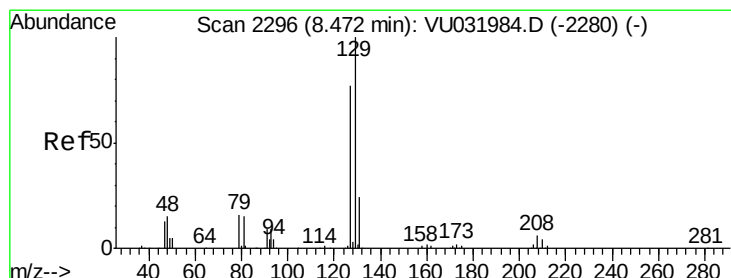
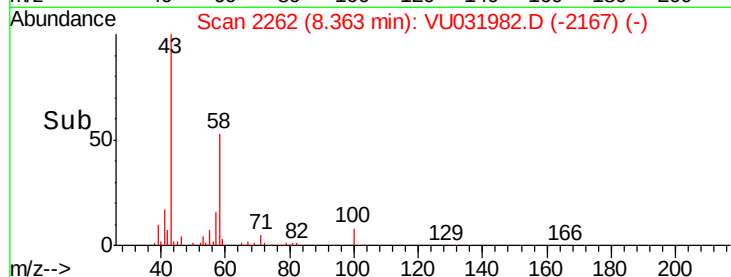
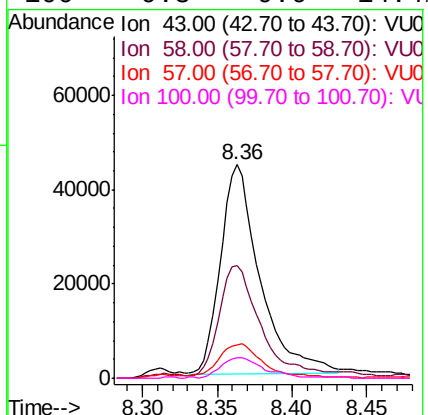
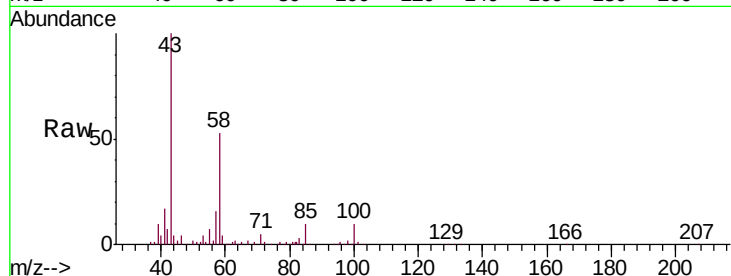




#48
2-Hexanone
Concen: 6.587 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.01 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

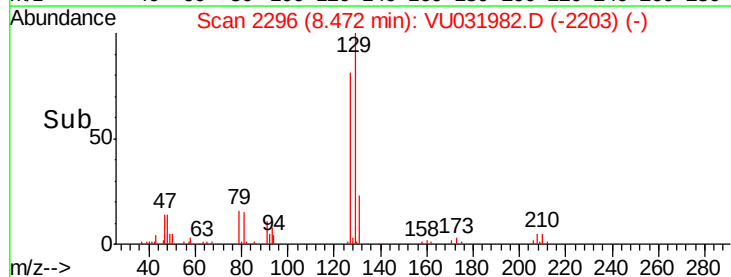
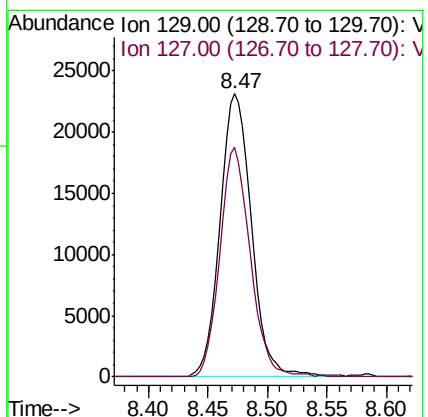
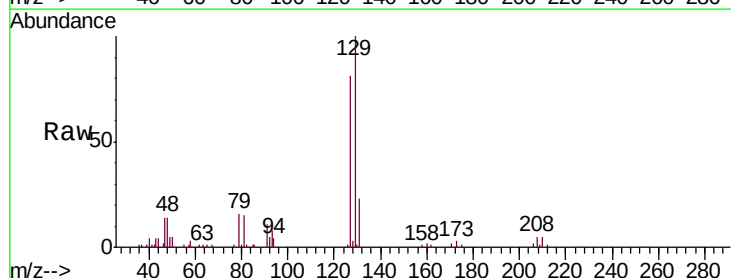
Instrument :
MSVOA_U
ClientSampleId :
VSTD00550

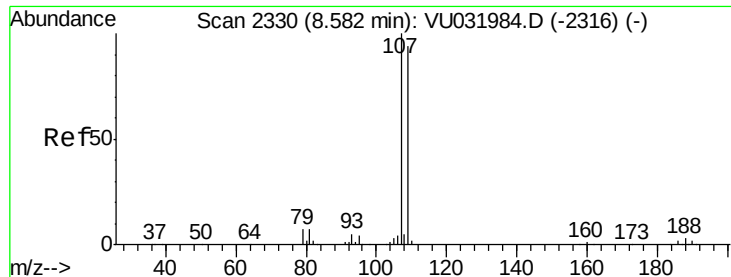
Tgt Ion: 43 Resp: 81070
Ion Ratio Lower Upper
43 100
58 55.8 47.8 71.6
57 15.3 16.0 24.0#
100 9.3 9.6 14.4#



#49
Dibromochloromethane
Concen: 4.868 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

Tgt Ion: 129 Resp: 42471
Ion Ratio Lower Upper
129 100
127 80.9 53.8 99.8





#50

1,2-Dibromoethane

Concen: 5.155 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00550

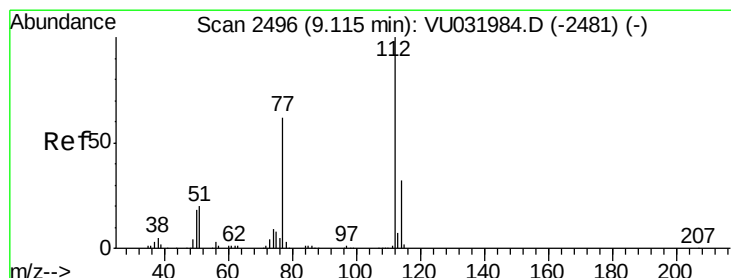
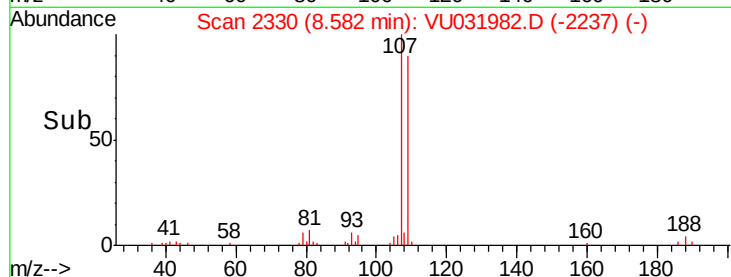
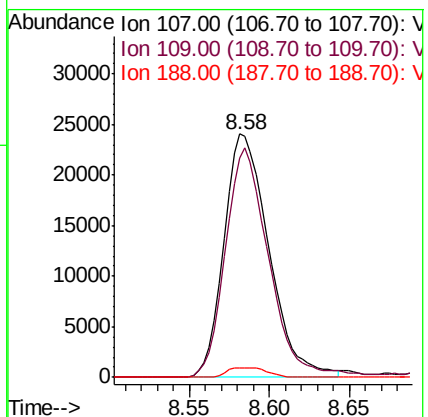
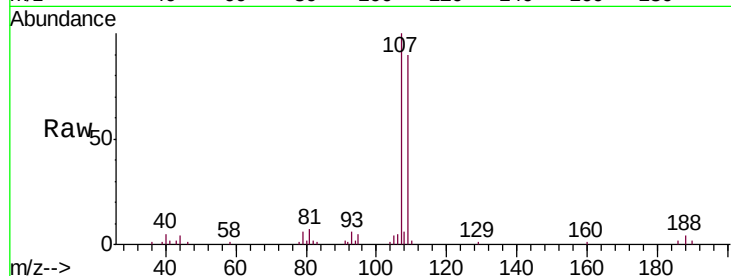
Tgt Ion:107 Resp: 46155

Ion Ratio Lower Upper

107 100

109 90.2 66.0 122.6

188 3.7 2.7 4.1



#51

Chlorobenzene

Concen: 5.425 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

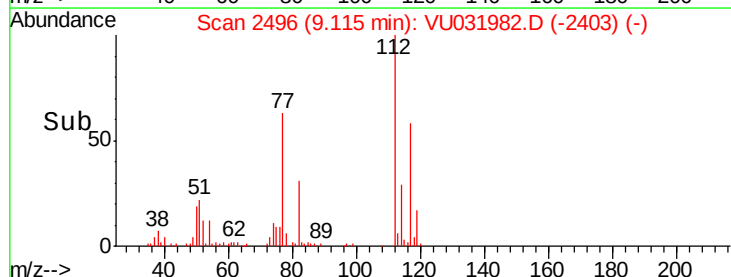
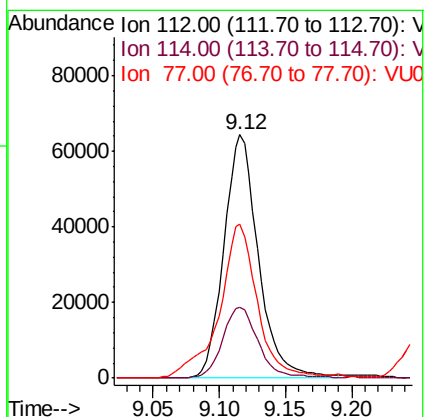
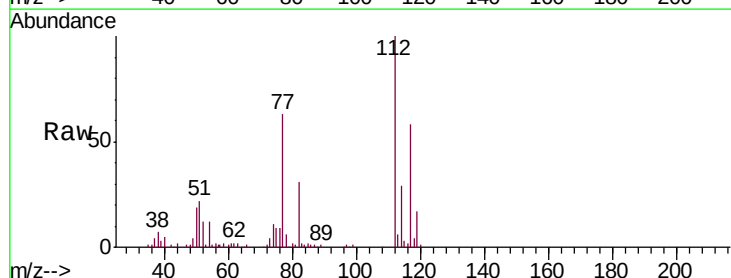
Tgt Ion:112 Resp: 116502

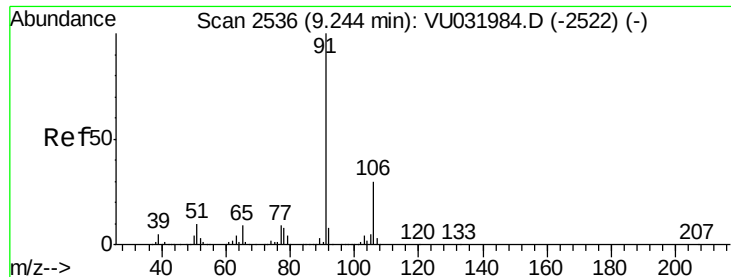
Ion Ratio Lower Upper

112 100

114 29.3 22.1 41.1

77 63.1 49.5 74.3





#52

Ethylbenzene

Concen: 4.517 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

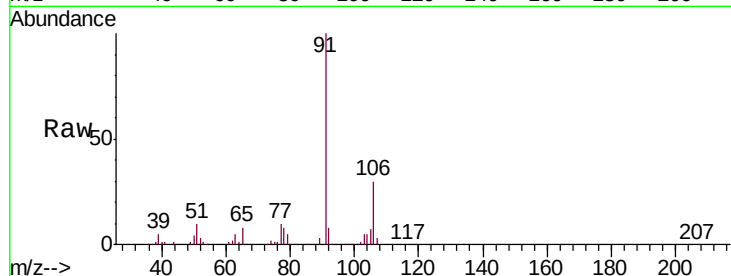
VSTD00550

Tgt Ion: 91 Resp: 169508

Ion Ratio Lower Upper

91 100

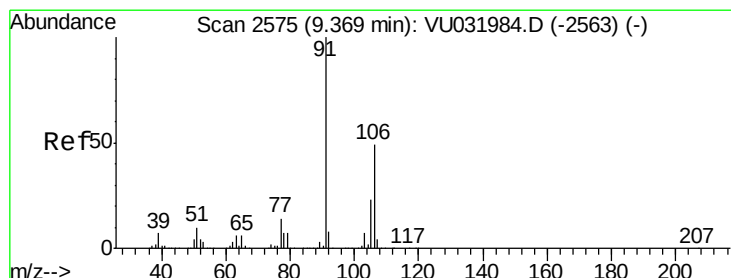
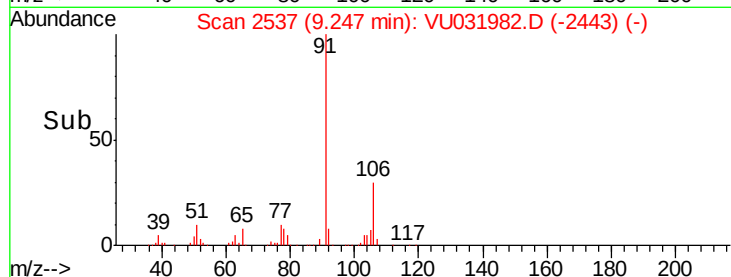
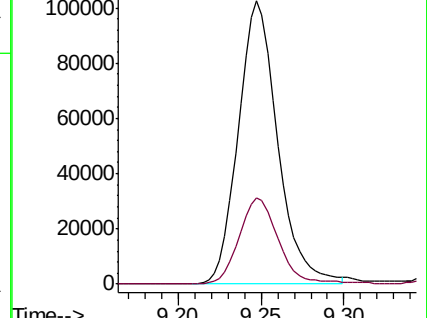
106 30.3 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VU031982.D (-2522) (-)

Ion 106.00 (105.70 to 106.70): VU031982.D (-2522) (-)

9.25



#53

m,p-Xylene

Concen: 4.448 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031982.D

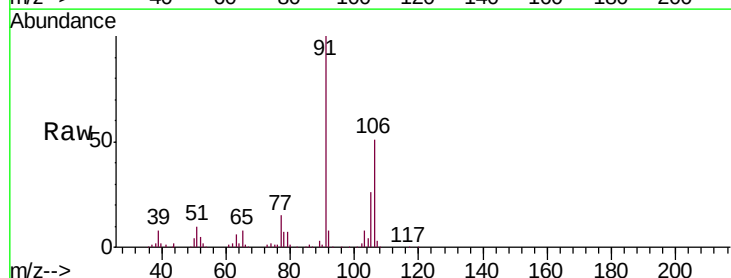
Acq: 14 May 2019 10:20

Tgt Ion: 106 Resp: 59280

Ion Ratio Lower Upper

106 100

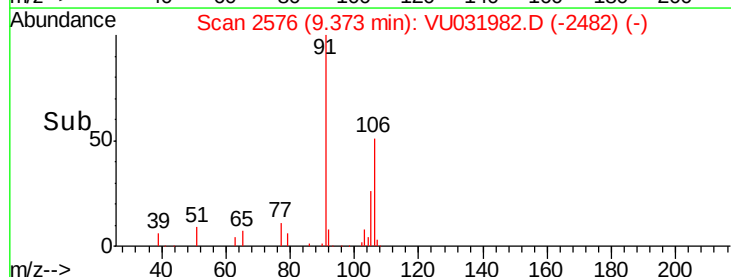
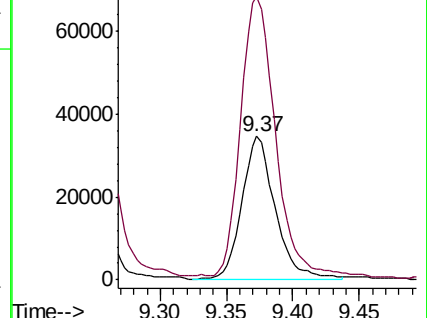
91 197.6 144.8 269.0

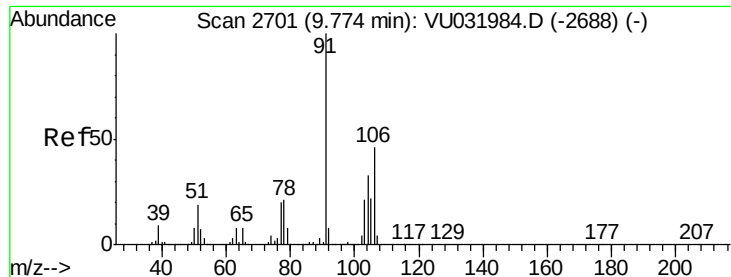


Abundance Ion 106.00 (105.70 to 106.70): VU031982.D (-2563) (-)

Ion 91.00 (90.70 to 91.70): VU031982.D (-2563) (-)

9.37

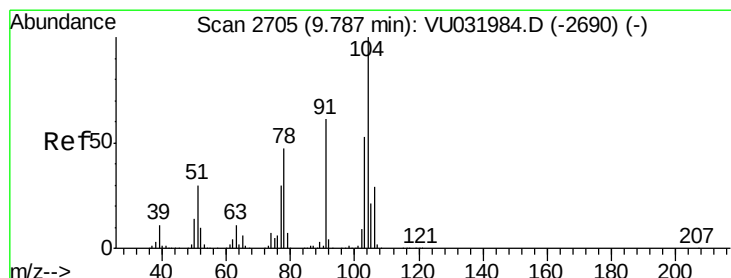
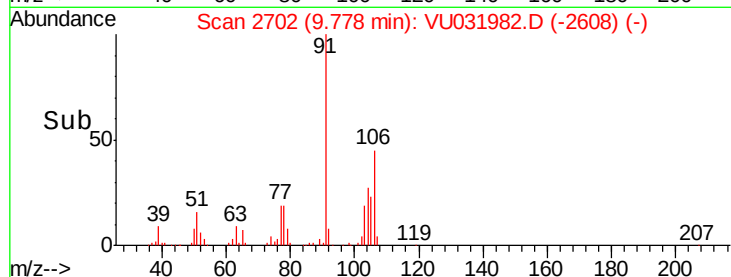
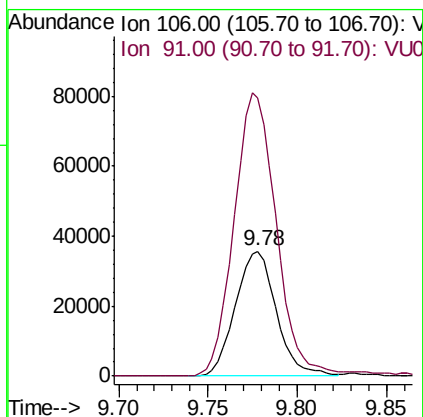
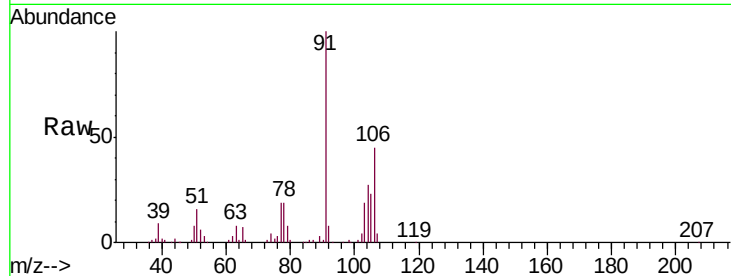




#54
o-xylene
Concen: 4.381 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

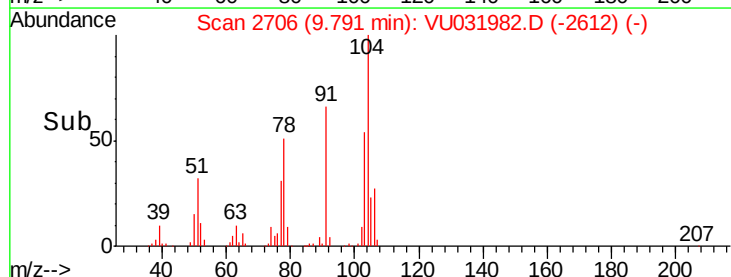
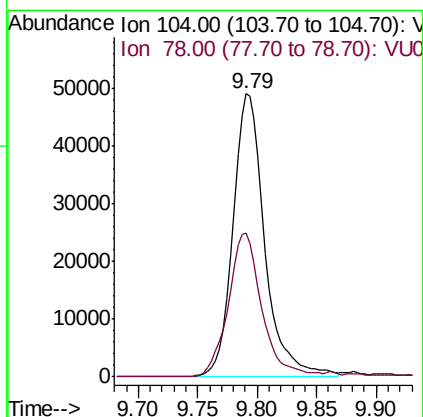
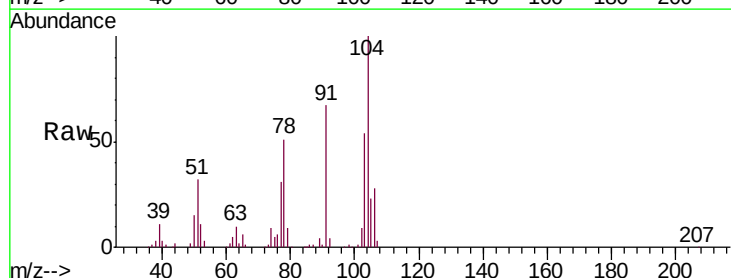
Instrument :
MSVOA_U
ClientSampleId :
VSTD00550

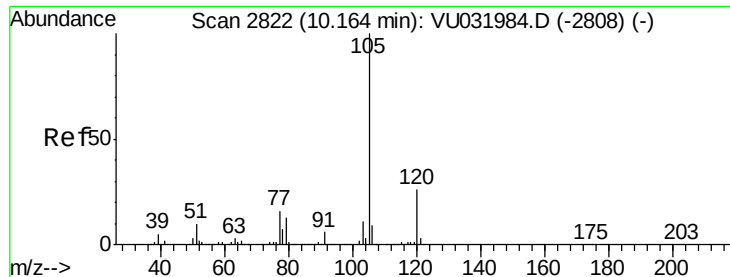
Tgt Ion:106 Resp: 57402
Ion Ratio Lower Upper
106 100
91 222.1 153.9 285.7



#55
Styrene
Concen: 4.076 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU031982.D
Acq: 14 May 2019 10:20

Tgt Ion:104 Resp: 90965
Ion Ratio Lower Upper
104 100
78 51.0 33.2 61.6





#56

Isopropylbenzene

Concen: 4.298 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00550

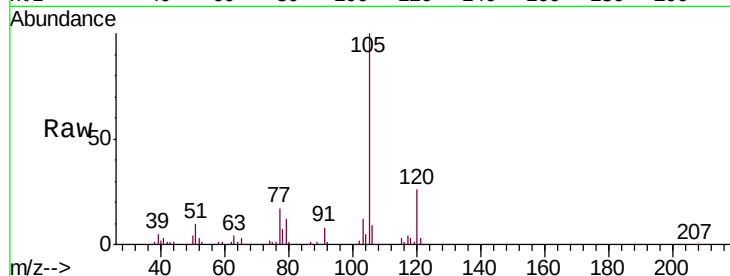
Tgt Ion: 105 Resp: 146995

Ion Ratio Lower Upper

105 100

120 26.4 20.5 30.7

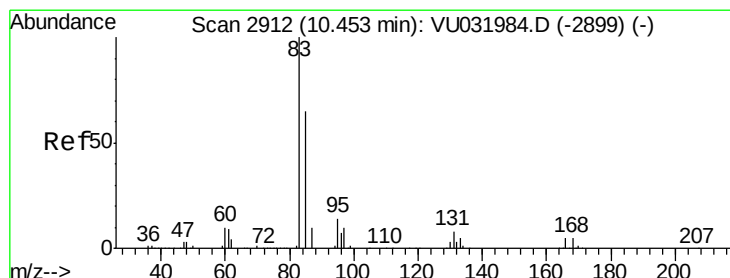
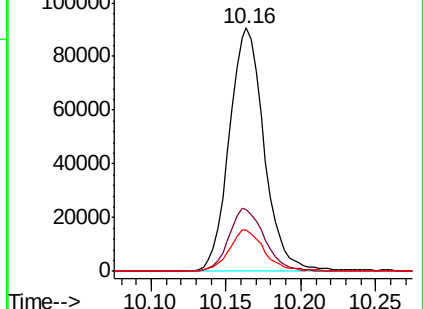
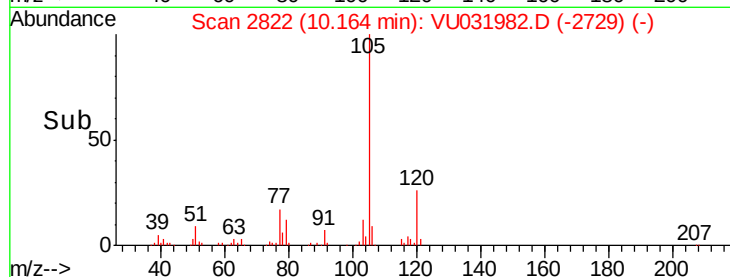
77 17.0 13.0 19.4



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: 5.068 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

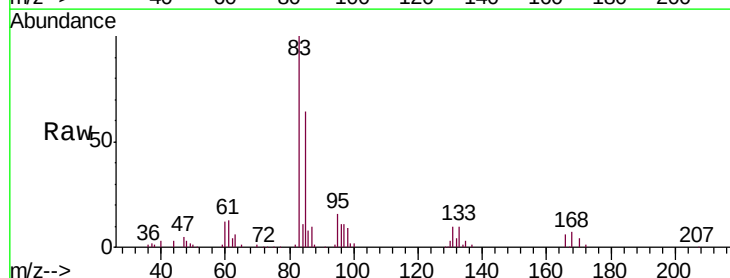
Tgt Ion: 83 Resp: 76316

Ion Ratio Lower Upper

83 100

85 63.7 45.8 85.2

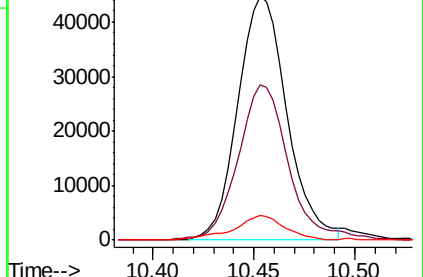
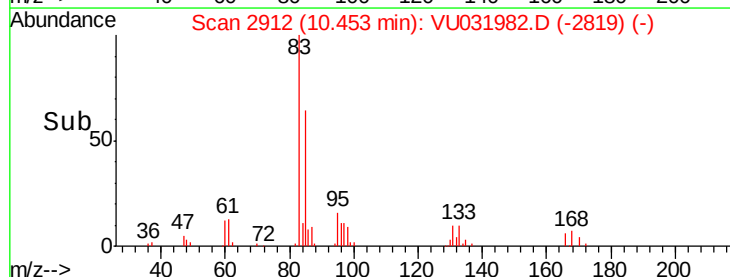
131 10.0 7.0 10.4

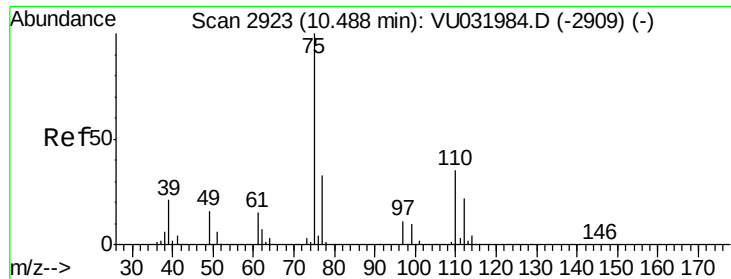


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

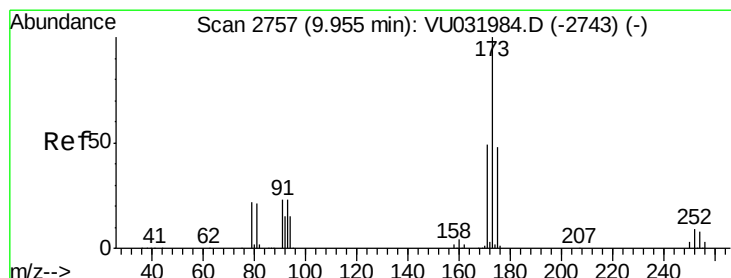
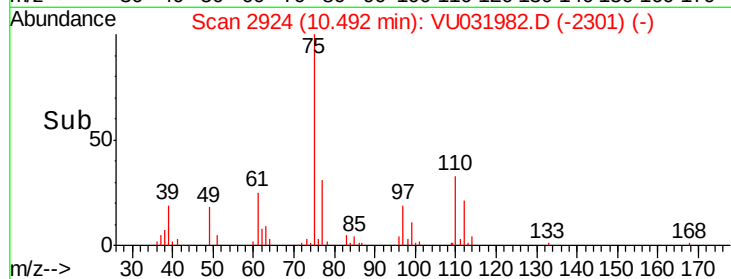
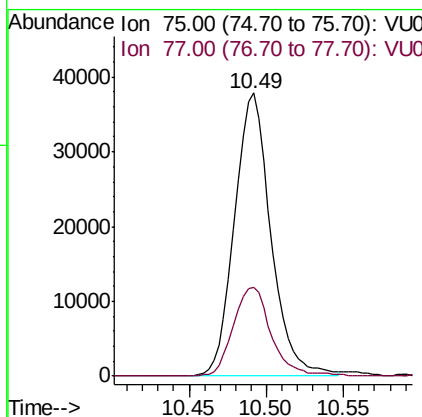
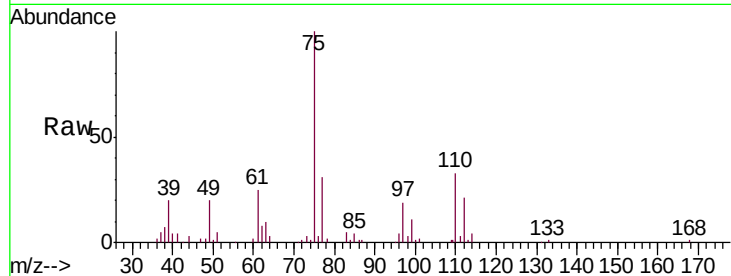




#59
 1,2,3-Trichloropropane
 Concen: 5.085 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

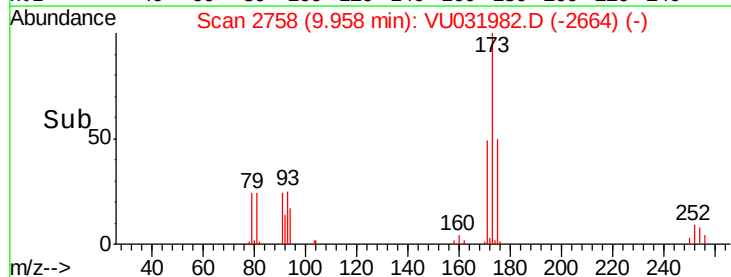
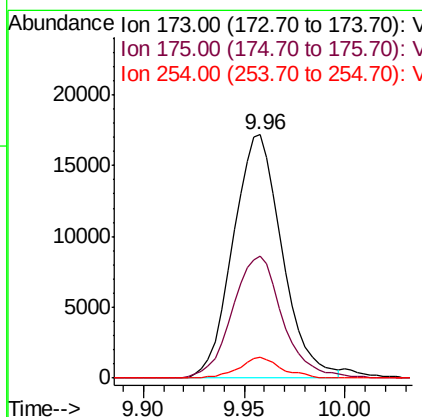
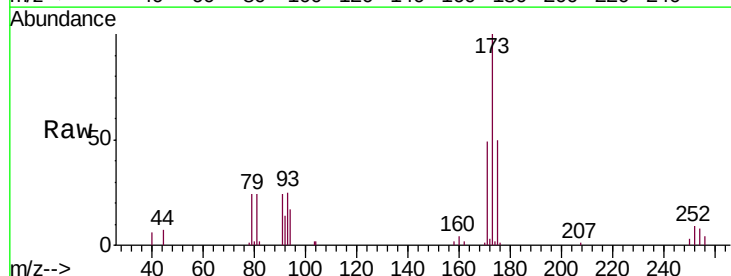
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00550

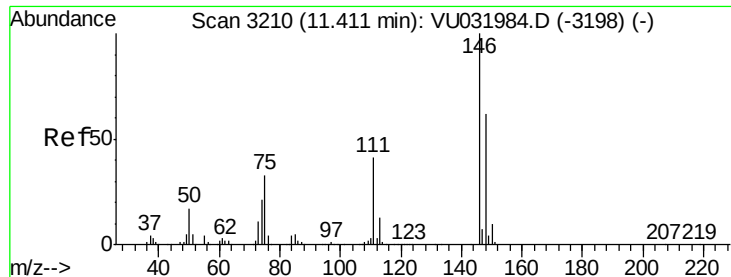
Tgt Ion: 75 Resp: 61852
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.7 38.5



#61
 Bromoform
 Concen: 4.913 ug/L
 RT: 9.96 min Scan# 2758
 Delta R.T. 0.00 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

Tgt Ion: 173 Resp: 29261
 Ion Ratio Lower Upper
 173 100
 175 51.3 38.4 57.6
 254 7.4 6.6 9.8

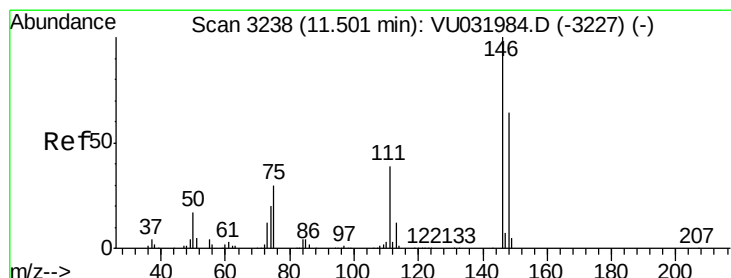
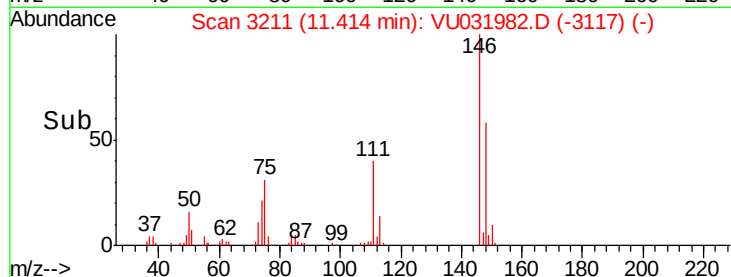
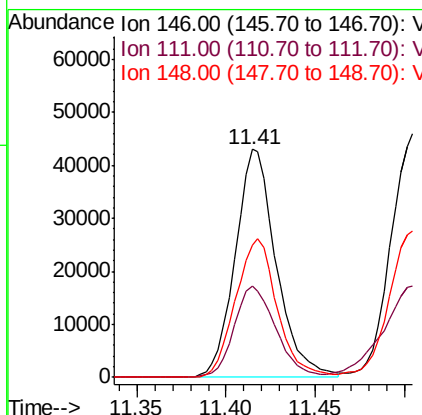
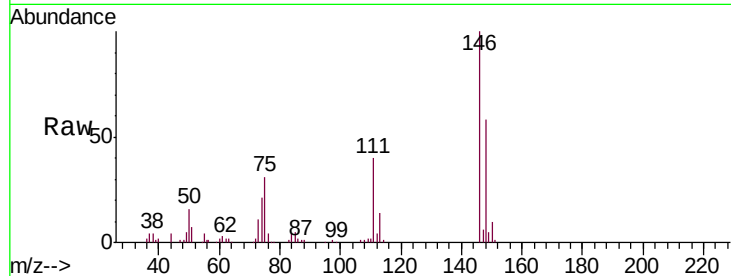




#62
 1,3-Dichlorobenzene
 Concen: 5.091 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

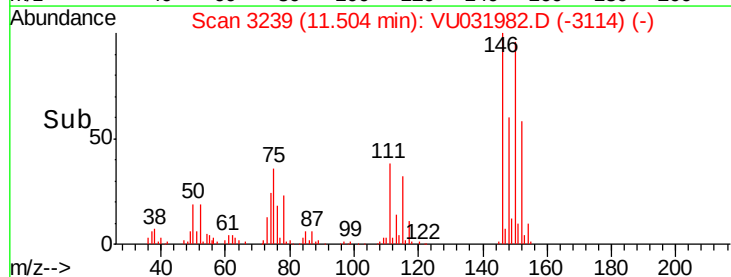
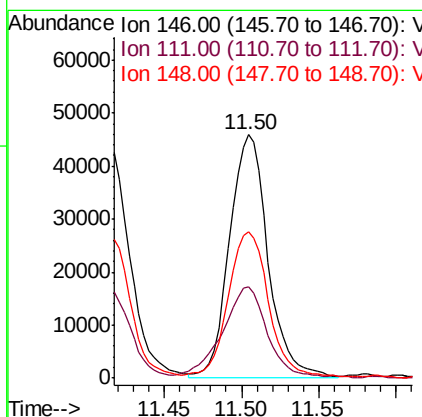
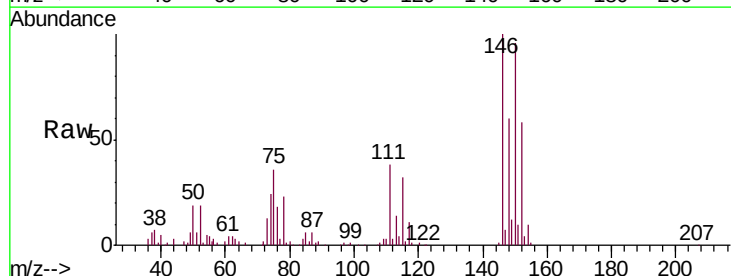
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00550

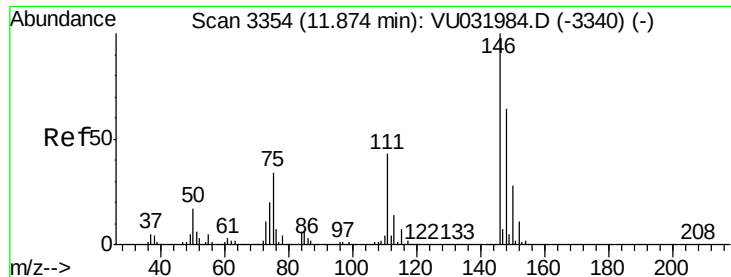
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	29.0	53.9
148	58.3	43.3	80.3



#63
 1,4-Dichlorobenzene
 Concen: 5.643 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	27.9	51.7
148	60.0	44.7	83.1





#65

1,2-Dichlorobenzene

Concen: 5.179 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampled :

VSTD00550

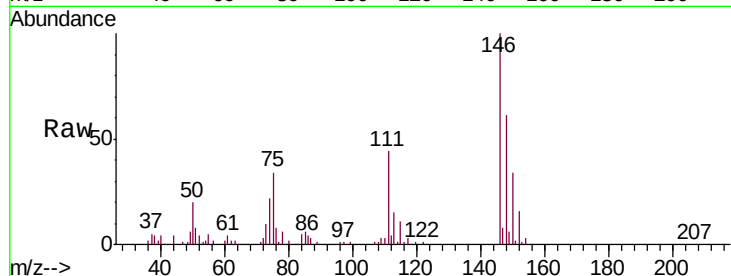
Tgt Ion:146 Resp: 74618

Ion Ratio Lower Upper

146 100

111 43.8 34.8 52.2

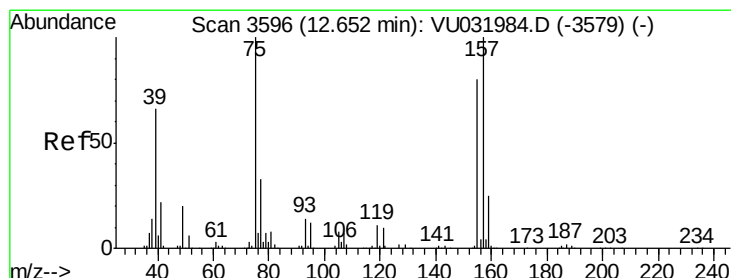
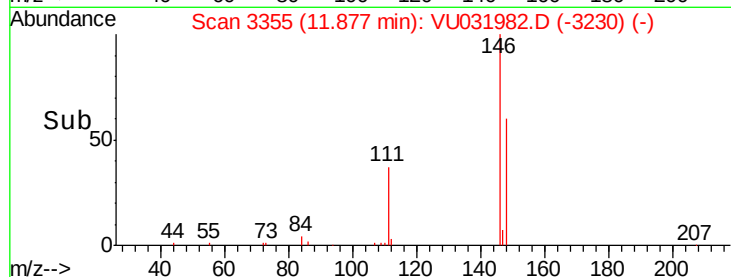
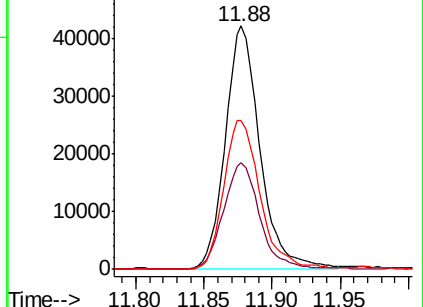
148 61.4 51.4 77.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.382 ug/L

RT: 12.66 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

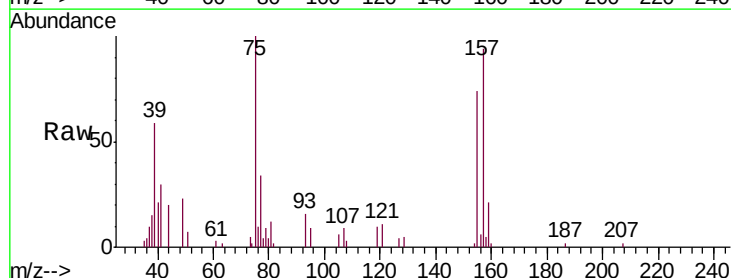
Tgt Ion: 75 Resp: 14111

Ion Ratio Lower Upper

75 100

155 73.6 63.8 95.8

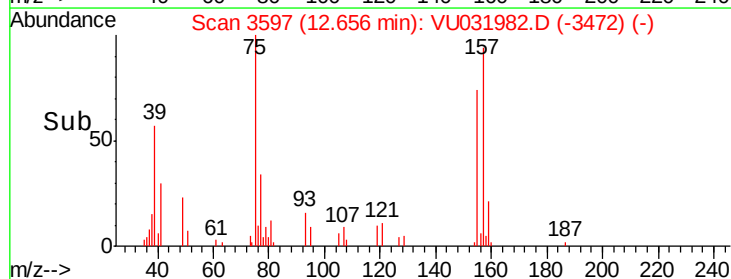
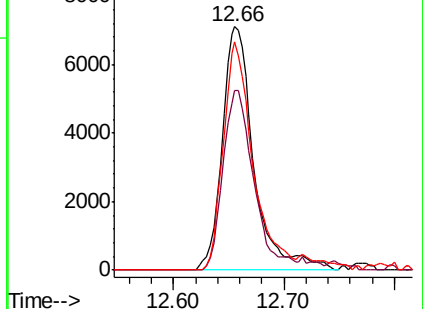
157 93.8 80.2 120.2

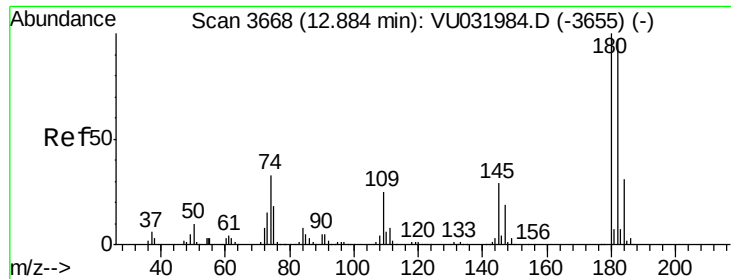


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

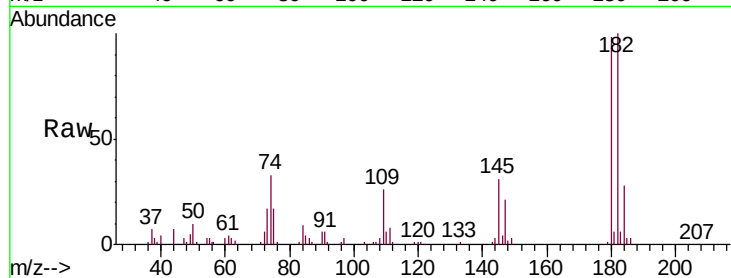




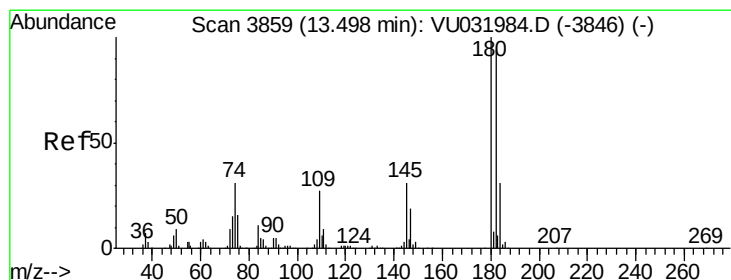
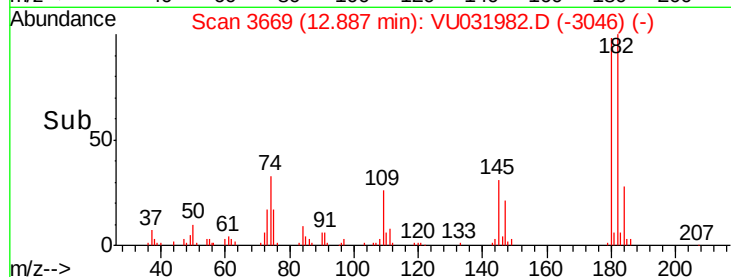
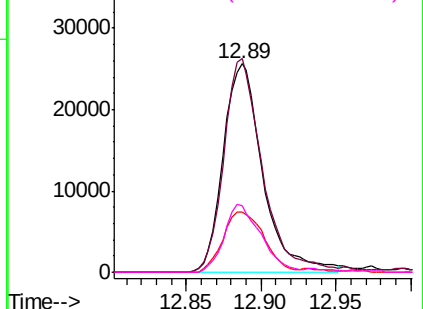
#67
 1,3,5-Trichlorobenzene
 Concen: 4.661 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00550

Tgt Ion:	180	Resp:	47243
Ion	Ratio	Lower	Upper
180	100		
182	99.7	76.4	114.6
184	30.1	24.7	37.1
145	30.3	23.9	35.9

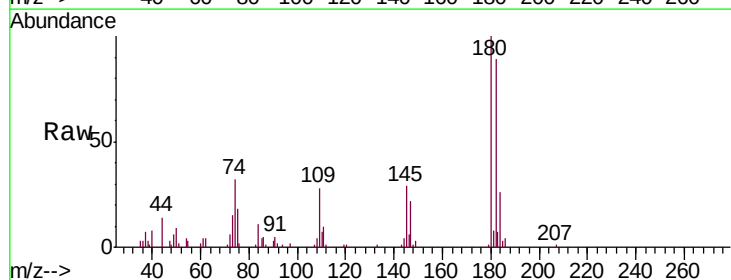


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

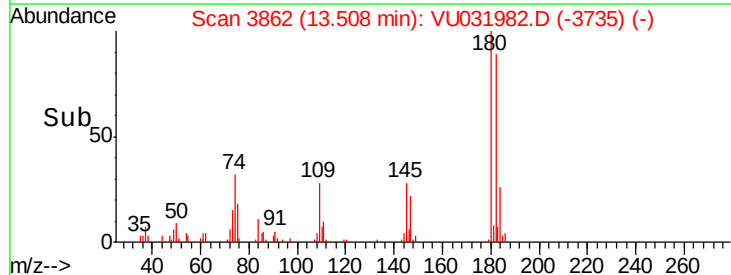
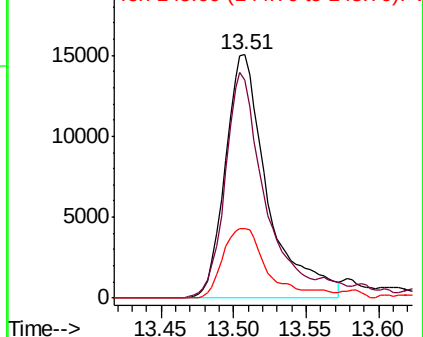


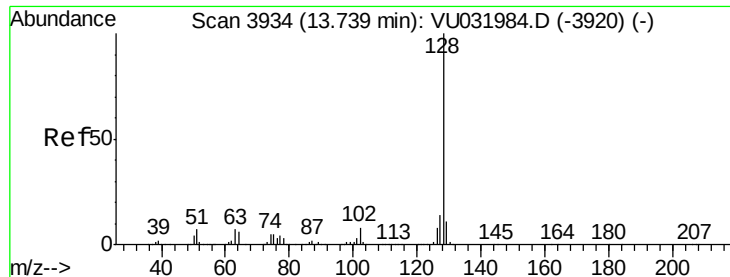
#68
 1,2,4-trichlorobenzene
 Concen: 3.824 ug/L
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.01 min
 Lab File: VU031982.D
 Acq: 14 May 2019 10:20

Tgt Ion:	180	Resp:	30573
Ion	Ratio	Lower	Upper
180	100		
182	85.3	76.1	114.1
145	29.2	24.0	36.0



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: 2.250 ug/L

RT: 13.75 min Scan# 3937

Delta R.T. 0.01 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00550

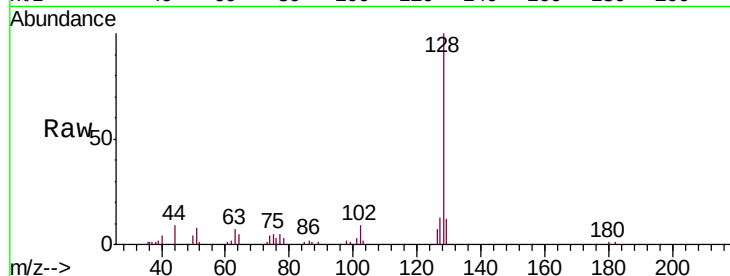
Tgt Ion:128 Resp: 61600

Ion Ratio Lower Upper

128 100

127 15.2 10.6 16.0

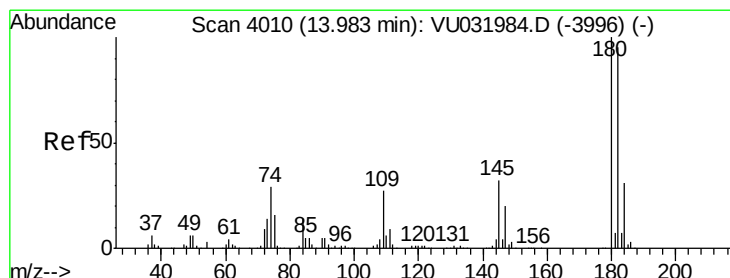
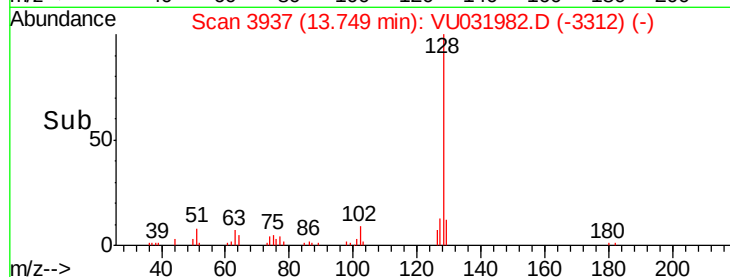
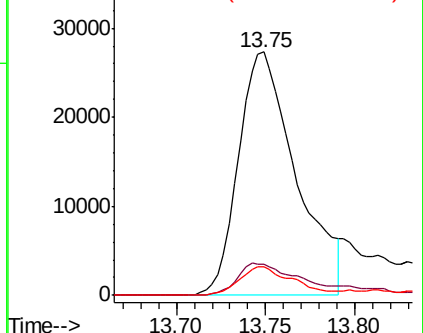
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3.575 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU031982.D

Acq: 14 May 2019 10:20

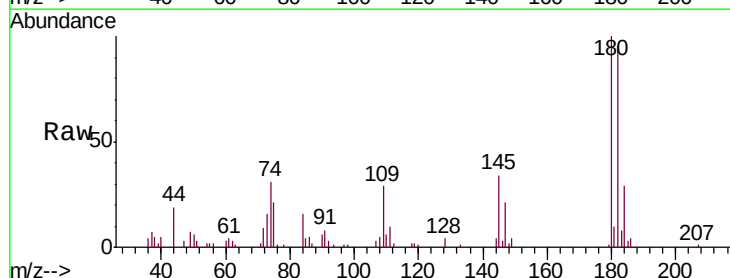
Tgt Ion:180 Resp: 32513

Ion Ratio Lower Upper

180 100

182 101.1 75.8 113.6

145 30.0 25.5 38.3



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

