

Data File : VU031127.D
Acq On : 12 Apr 2019 14:43
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Quant Time: Apr 13 00:45:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Apr 12 23:21:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	502520	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	488080	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	236171	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	227825	50.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.58%
7) Chloroethane-d5	1.67	69	174071	51.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.26%
11) 1,1-Dichloroethene-d2	2.27	63	400481	49.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.72%
21) 2-Butanone-d5	4.17	46	350899	98.70	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.70%
24) Chloroform-d	4.64	84	367615	53.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.30%
26) 1,2-Dichloroethane-d4	5.30	65	237206	50.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.46%
32) Benzene-d6	5.33	84	742797	52.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.26%
36) 1,2-Dichloropropane-d6	6.32	67	243941	49.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.92%
41) Toluene-d8	7.56	98	670736	53.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.22%
43) trans-1,3-Dichloropropene-	7.85	79	113073	50.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.56%
47) 2-Hexanone-d5	8.31	63	220835	98.95	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.95%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	338210	51.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.70%
64) 1,2-Dichlorobenzene-d4	11.85	152	247894	53.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.74%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	212042	48.037 ug/L	99
3) Chloromethane	1.32	50	252864	44.288 ug/L	100
5) Vinyl chloride	1.40	62	259331	46.921 ug/L	96
6) Bromomethane	1.62	94	130647	45.626 ug/L	99
8) Chloroethane	1.69	64	153572	48.717 ug/L	99
9) Trichlorofluoromethane	1.88	101	327725	50.889 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	184395	51.245 ug/L	98
12) 1,1-Dichloroethene	2.28	96	170001	48.940 ug/L	91
13) Acetone	2.32	43	346965	95.371 ug/L	97
14) Carbon disulfide	2.47	76	503613	46.669 ug/L	98
15) Methyl Acetate	2.61	43	266523	47.249 ug/L	99
16) Methylene chloride	2.69	84	211149	50.037 ug/L	95
17) trans-1,2-Dichloroethene	2.98	96	181792	49.289 ug/L	99
18) Methyl tert-butyl Ether	2.99	73	615037	49.781 ug/L	99
19) 1,1-Dichloroethane	3.44	63	372919	48.994 ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	209785	51.513 ug/L	93
22) 2-Butanone	4.25	43	421923	98.915 ug/L	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	104773	54.418	ug/L	89
25) Chloroform	4.67	83	383755	50.163	ug/L	99
27) 1,2-Dichloroethane	5.40	62	300398	51.449	ug/L	99
29) Cyclohexane	4.99	56	322838	46.408	ug/L	95
30) 1,1,1-Trichloroethane	4.91	97	312745	52.578	ug/L	98
31) Carbon tetrachloride	5.13	117	268365	52.356	ug/L	98
33) Benzene	5.38	78	820330	51.360	ug/L	100
34) Trichloroethene	6.18	95	203406	51.923	ug/L	97
35) Methylcyclohexane	6.41	83	312282	51.654	ug/L	96
37) 1,2-Dichloropropane	6.43	63	224672	49.677	ug/L	99
38) Bromodichloromethane	6.75	83	280070	51.332	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	322765	50.140	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	703564	96.738	ug/L	98
42) Toluene	7.63	91	848438	52.039	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	294812	51.967	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	197808	51.571	ug/L	99
46) Tetrachloroethene	8.22	164	152146	53.420	ug/L	99
48) 2-Hexanone	8.36	43	566692	99.872	ug/L	98
49) Dibromochloromethane	8.47	129	221716	54.475	ug/L	99
50) 1,2-Dibromoethane	8.58	107	215648	51.956	ug/L	98
51) Chlorobenzene	9.12	112	525256	52.528	ug/L	98
52) Ethylbenzene	9.24	91	922528	51.910	ug/L	99
53) m,p-Xylene	9.37	106	339921	54.843	ug/L	100
54) o-xylene	9.77	106	327398	53.104	ug/L	99
55) Styrene	9.79	104	587172	55.525	ug/L	98
56) Isopropylbenzene	10.16	105	872831	53.772	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	353527	50.956	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	274558	50.688	ug/L	99
61) Bromoform	9.95	173	162183	51.983	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	389228	52.146	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	400146	52.703	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	401158	53.579	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	78356	49.229	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	298510	54.723	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	248475	53.574	ug/L	100
69) Naphthalene	13.74	128	776034	51.614	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	257754	53.191	ug/L	99

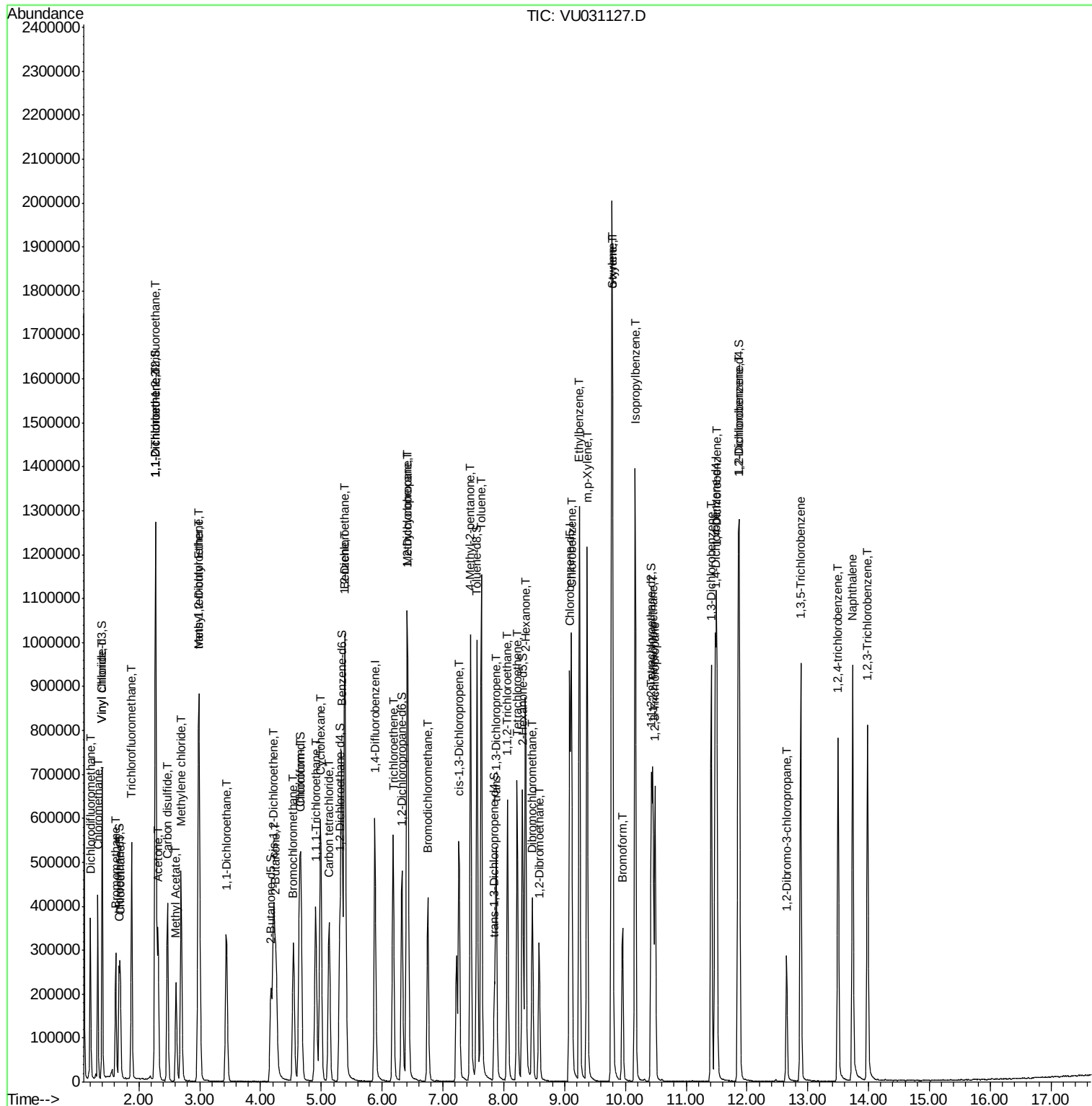
(#) = qualifier out of range (m) = manual integration (+) = signals summed

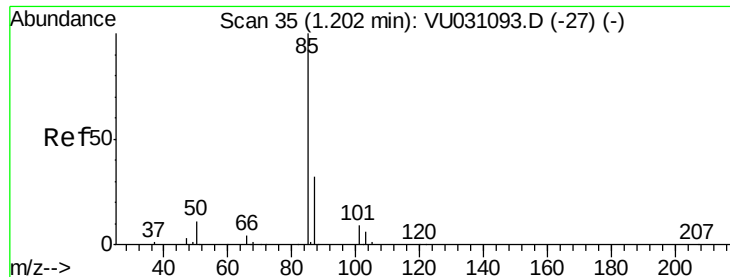
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#2

Dichlorodifluoromethane

Concen: 48.037 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

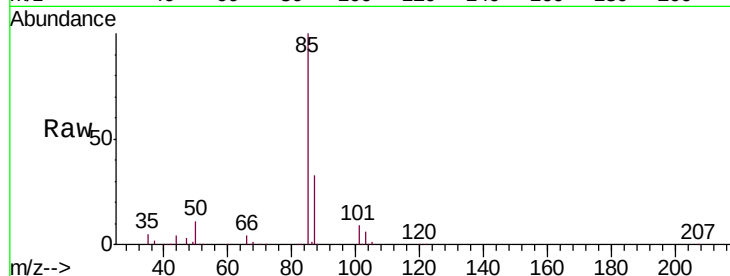
VSTD05033

Tgt Ion: 85 Resp: 212042

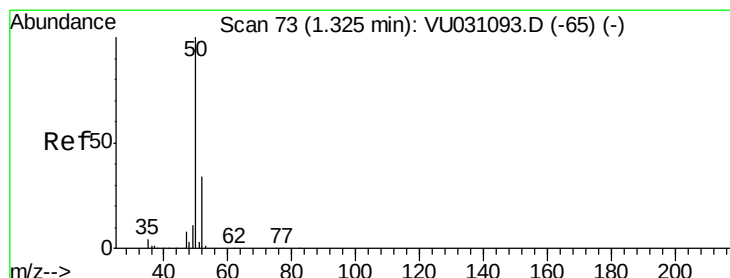
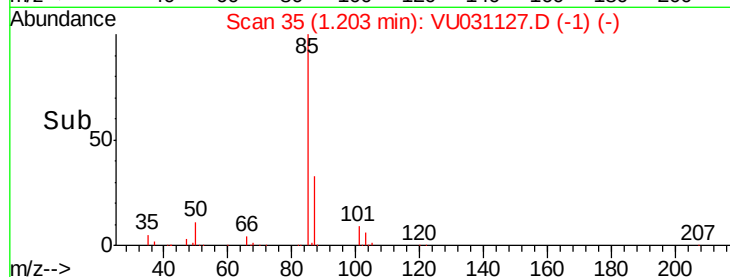
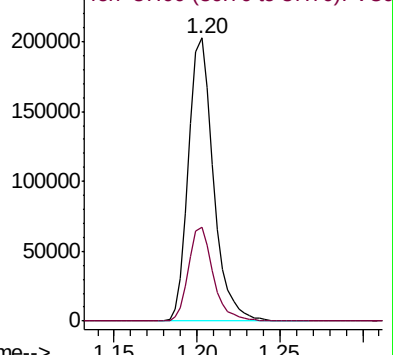
Ion Ratio Lower Upper

85 100

87 32.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU031127.D (-1) (-)



#3

Chloromethane

Concen: 44.288 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031127.D

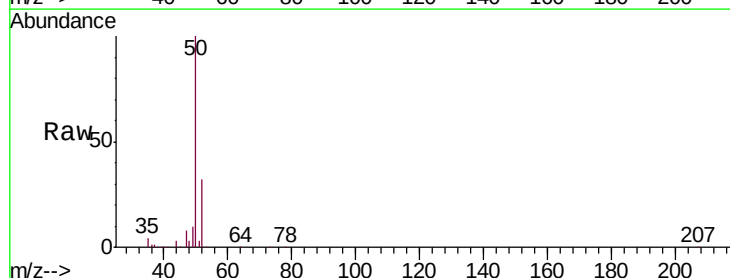
Acq: 12 Apr 2019 14:43

Tgt Ion: 50 Resp: 252864

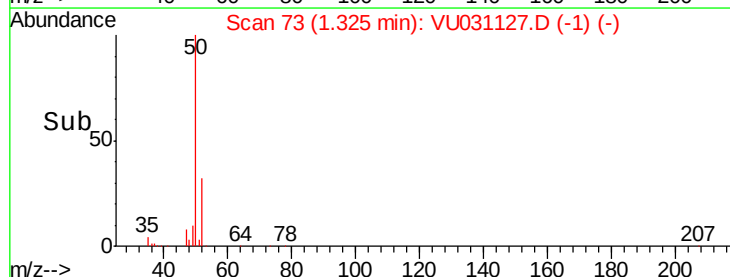
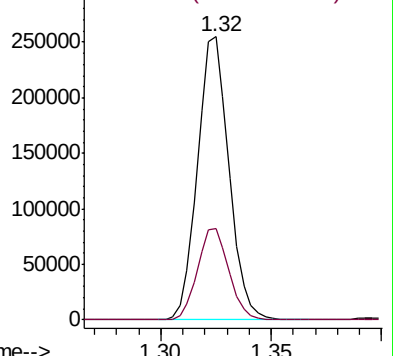
Ion Ratio Lower Upper

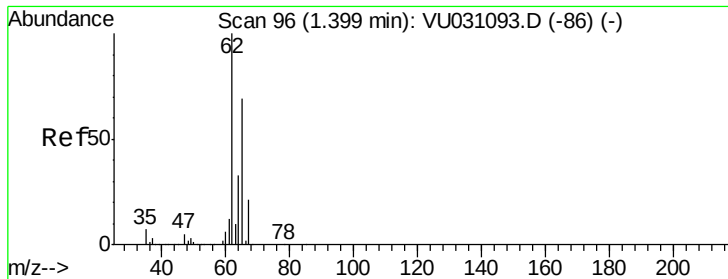
50 100

52 32.3 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU031127.D (-1) (-)





#5

Vinyl chloride

Concen: 46.921 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

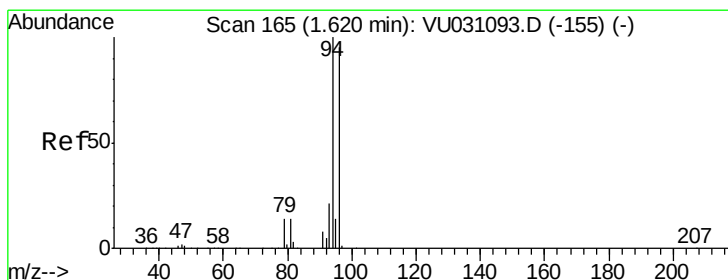
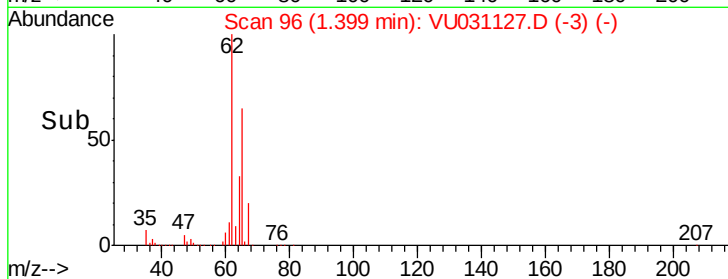
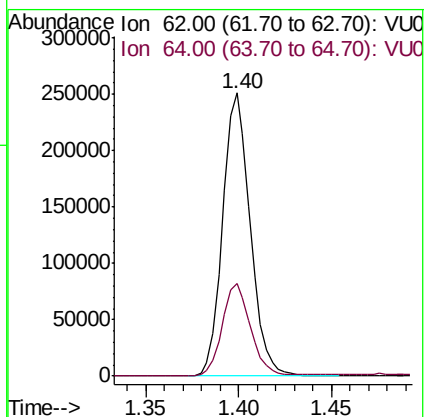
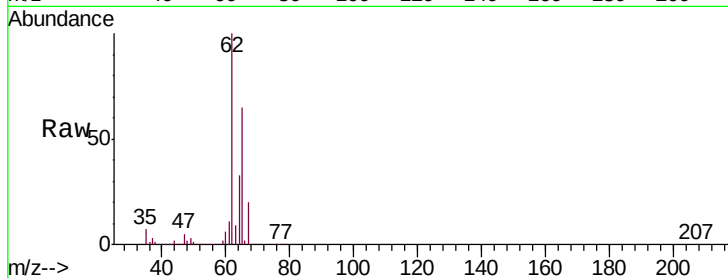
VSTD05033

Tgt Ion: 62 Resp: 259331

Ion Ratio Lower Upper

62 100

64 32.7 21.5 39.9



#6

Bromomethane

Concen: 45.626 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU031127.D

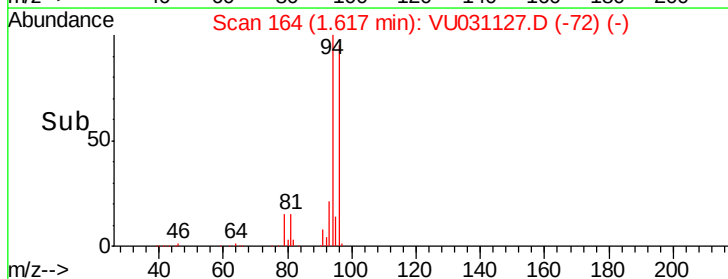
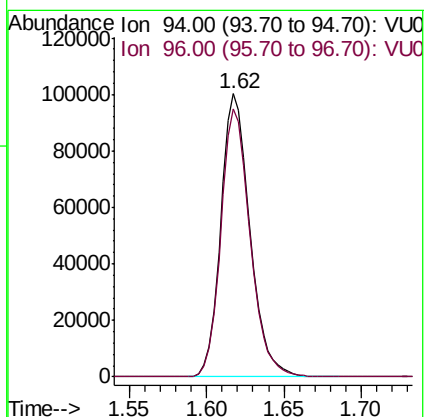
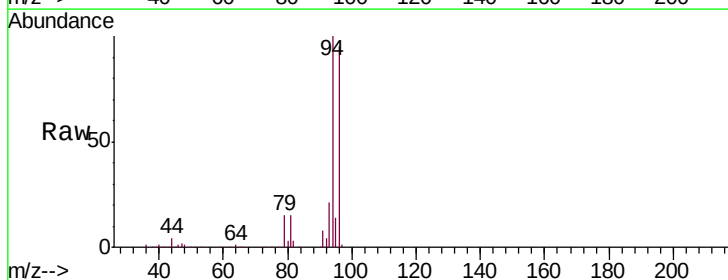
Acq: 12 Apr 2019 14:43

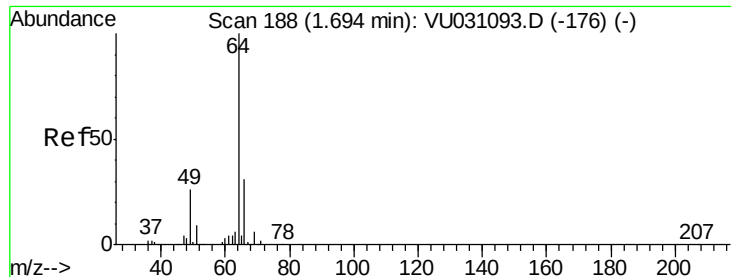
Tgt Ion: 94 Resp: 130647

Ion Ratio Lower Upper

94 100

96 94.7 65.5 121.7





#8

Chloroethane

Concen: 48.717 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

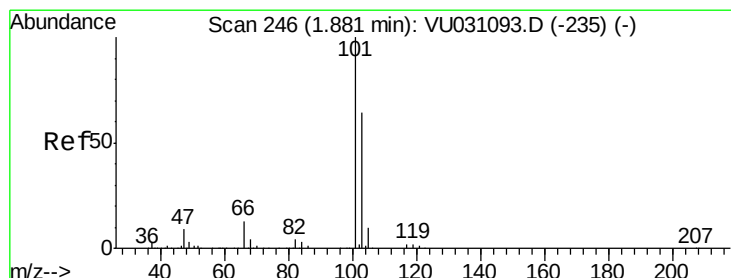
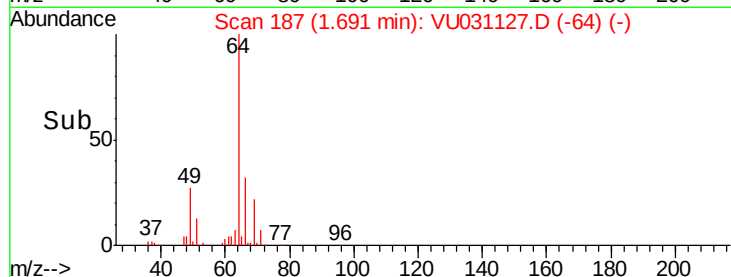
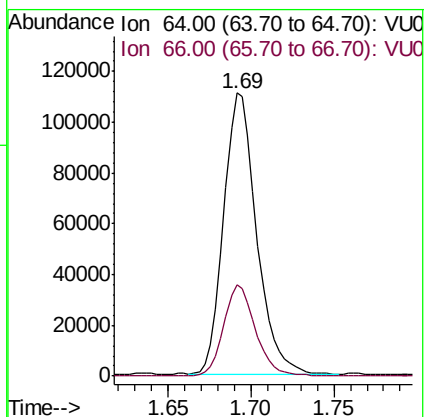
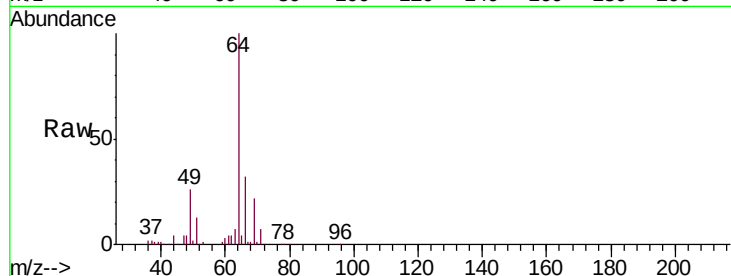
VSTD05033

Tgt Ion: 64 Resp: 153572

Ion Ratio Lower Upper

64 100

66 32.3 22.4 41.6



#9

Trichlorofluoromethane

Concen: 50.889 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031127.D

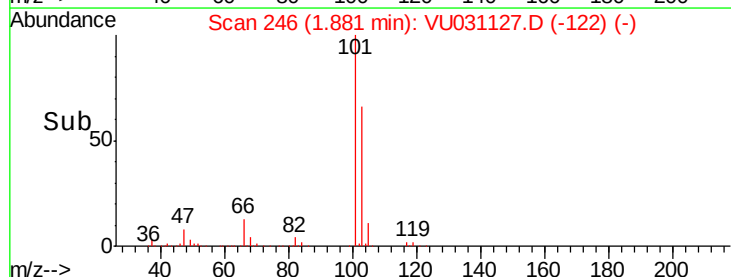
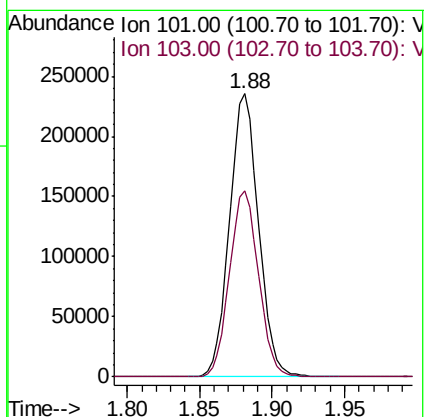
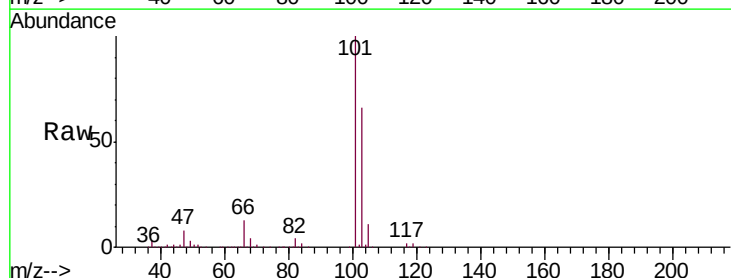
Acq: 12 Apr 2019 14:43

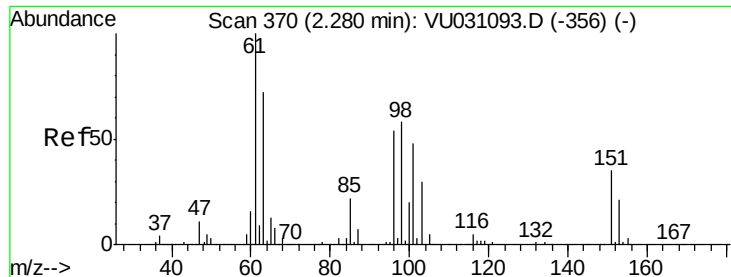
Tgt Ion: 101 Resp: 327725

Ion Ratio Lower Upper

101 100

103 65.7 51.8 77.8





#10

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

Concen: 51.245 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

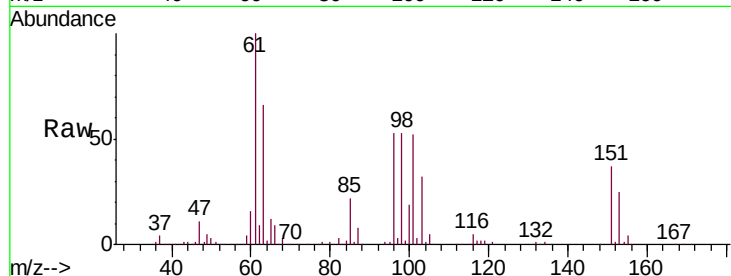
Tgt Ion: 101 Resp: 184395

Ion Ratio Lower Upper

101 100

85 42.5 36.8 55.2

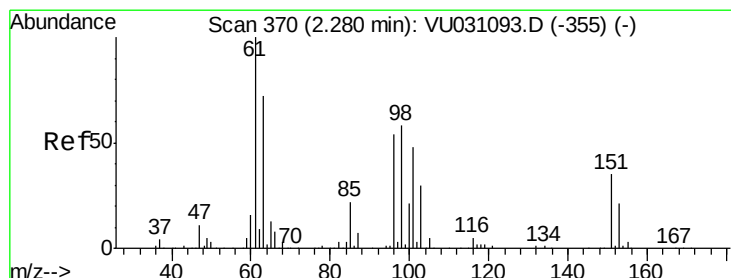
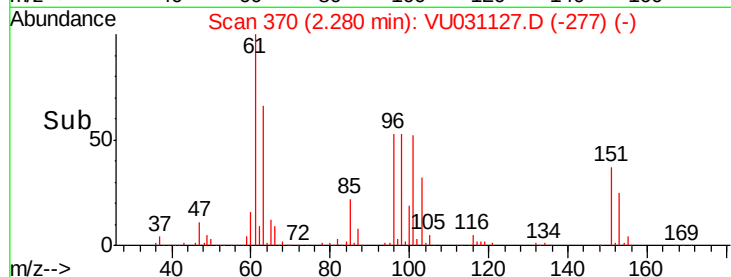
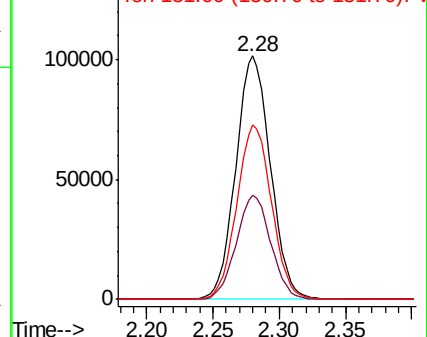
151 72.0 57.4 86.0



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: 48.940 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

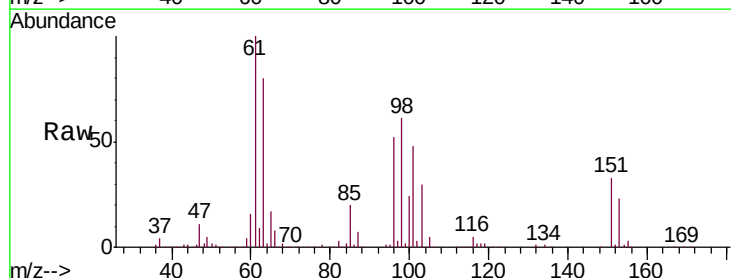
Tgt Ion: 96 Resp: 170001

Ion Ratio Lower Upper

96 100

61 191.4 132.0 245.2

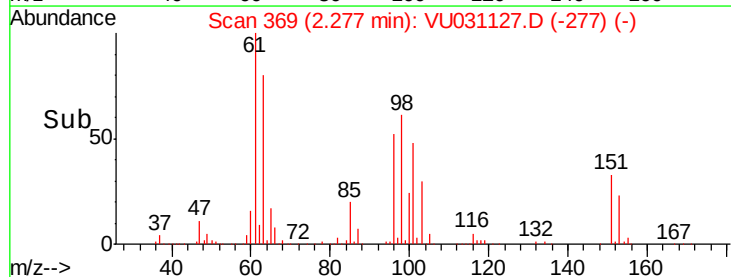
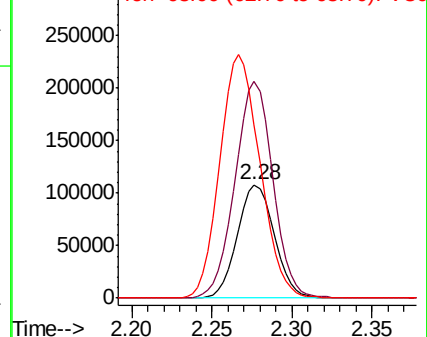
63 153.2 90.9 168.9

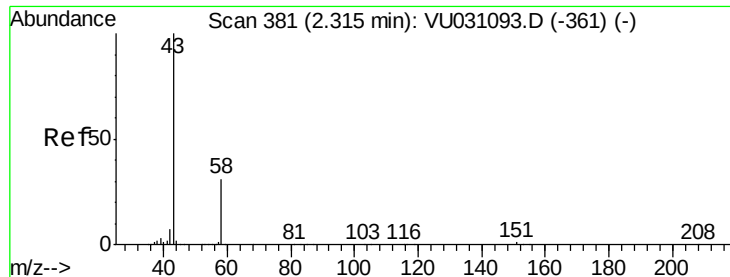


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 95.371 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

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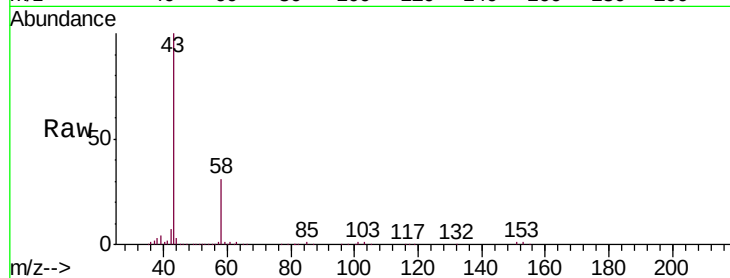
VSTD05033

Tgt Ion: 43 Resp: 346965

Ion Ratio Lower Upper

43 100

58 30.3 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU031093.D (-361) (-)

Ion 58.00 (57.70 to 58.70): VU031093.D (-361) (-)

2.32

200000

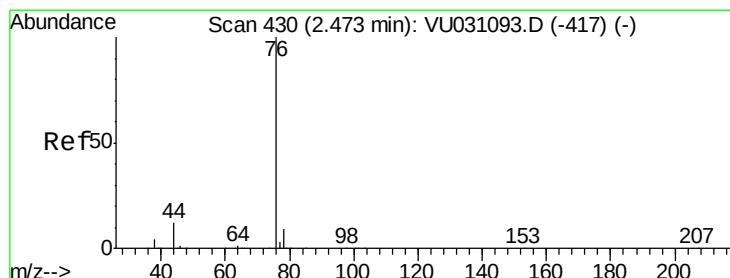
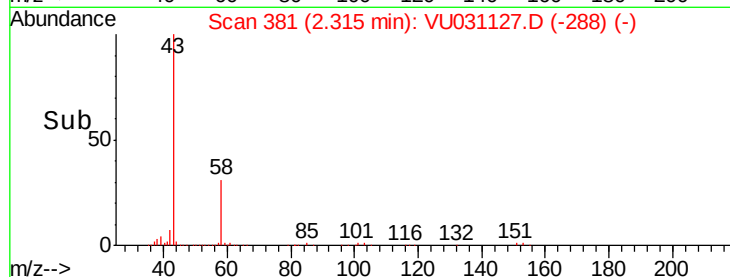
150000

100000

50000

0

Time--> 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 46.669 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU031127.D

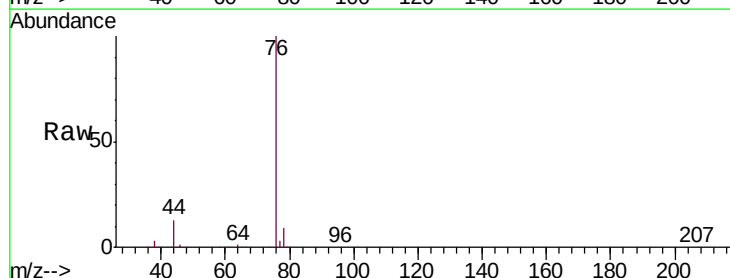
Acq: 12 Apr 2019 14:43

Tgt Ion: 76 Resp: 503613

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VU031093.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031093.D (-417) (-)

2.47

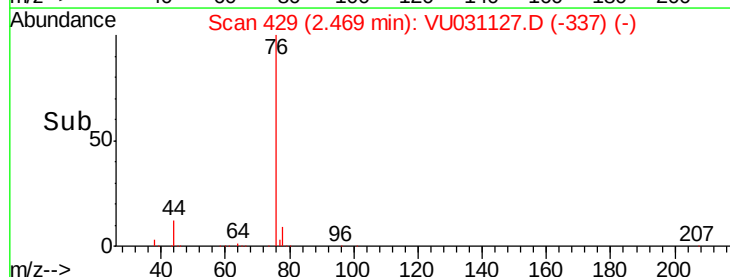
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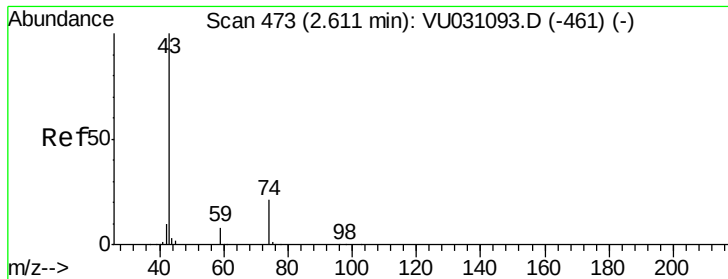
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100000

0

Time--> 2.40 2.45 2.50 2.55

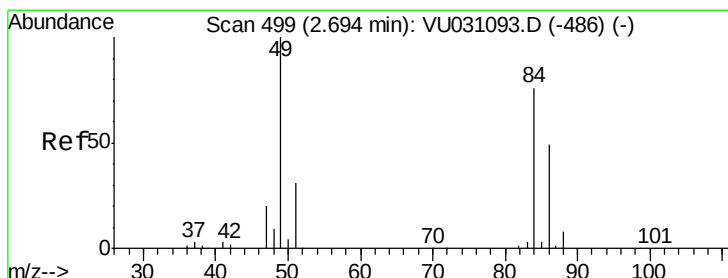
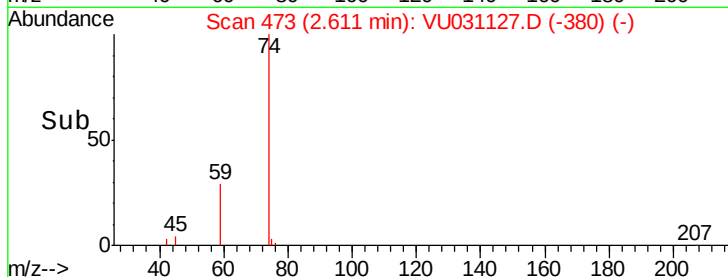
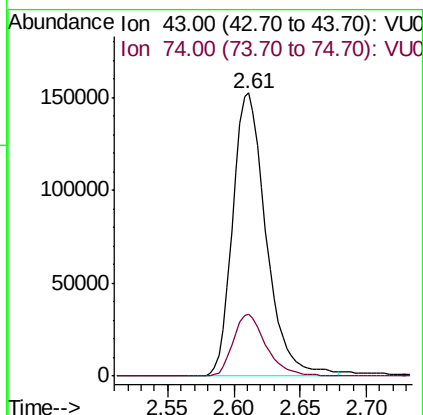
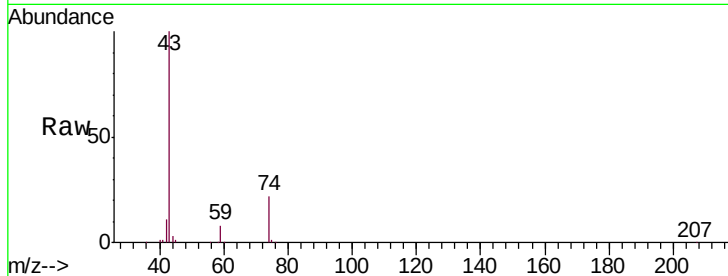




#15
Methyl Acetate
Concen: 47.249 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU031127.D
Acq: 12 Apr 2019 14:43

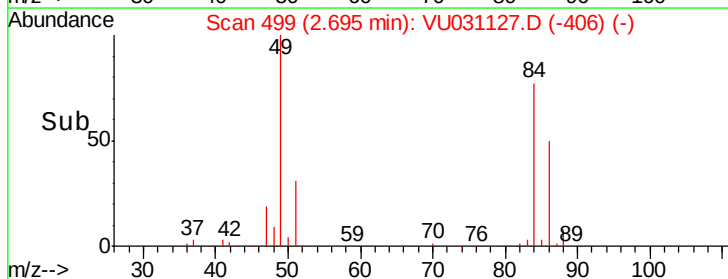
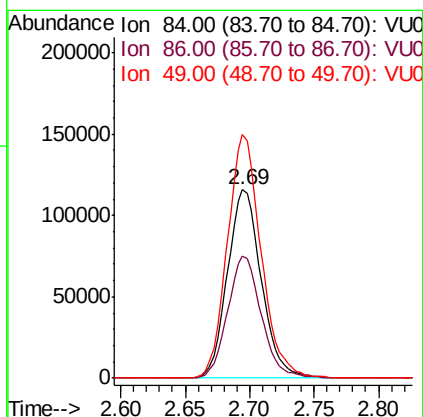
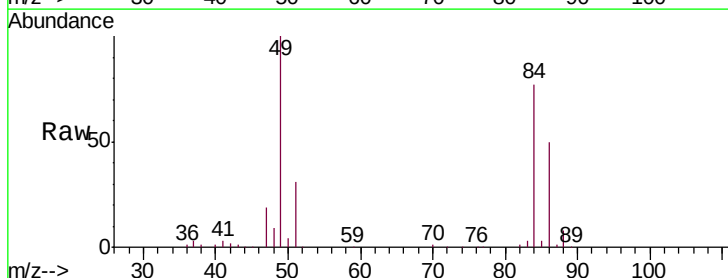
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

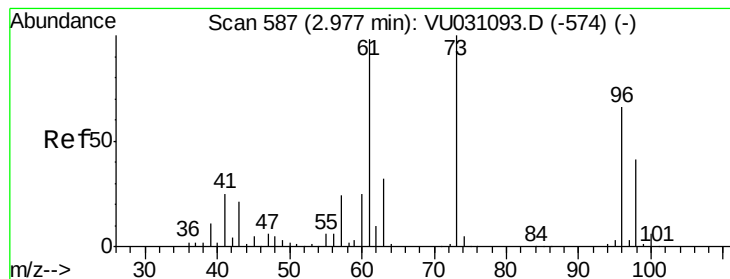
Tgt Ion: 43 Resp: 266523
Ion Ratio Lower Upper
43 100
74 21.7 17.1 25.7



#16
Methylene chloride
Concen: 50.037 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU031127.D
Acq: 12 Apr 2019 14:43

Tgt Ion: 84 Resp: 211149
Ion Ratio Lower Upper
84 100
86 64.9 45.1 83.7
49 129.3 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 49.289 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

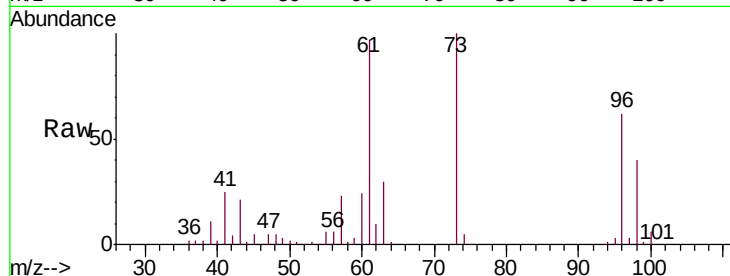
Tgt Ion: 96 Resp: 181792

Ion Ratio Lower Upper

96 100

61 154.9 109.5 203.3

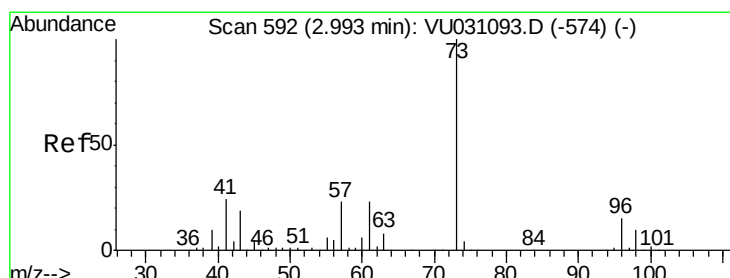
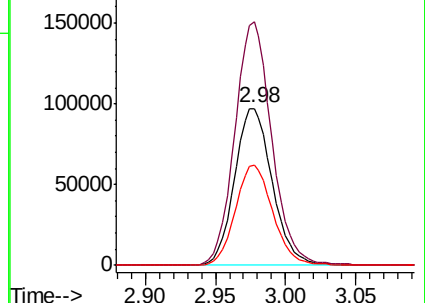
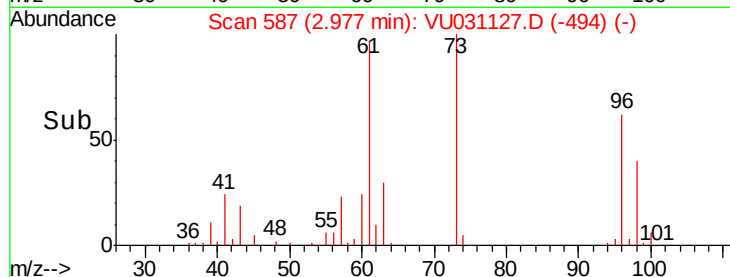
98 63.6 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031127.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU031127.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU031127.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 49.781 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

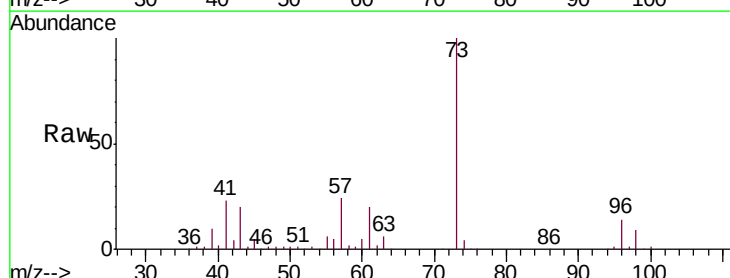
Tgt Ion: 73 Resp: 615037

Ion Ratio Lower Upper

73 100

43 20.2 16.4 24.6

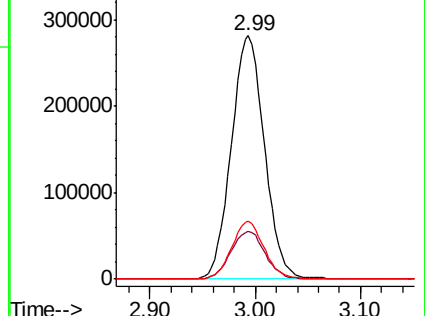
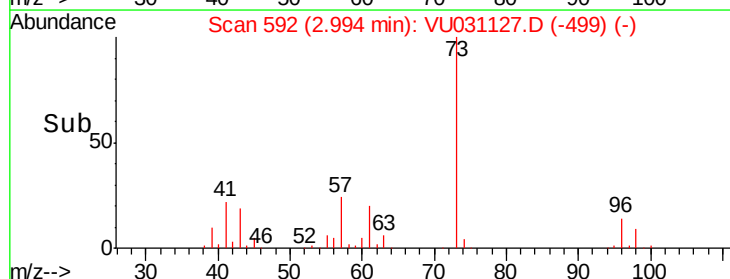
57 23.1 19.0 28.4

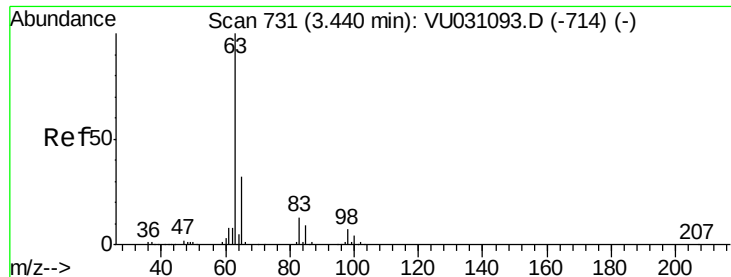


Abundance Ion 73.00 (72.70 to 73.70): VU031127.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031127.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031127.D (-499) (-)





#19

1,1-Dichloroethane

Concen: 48.994 ug/L

RT: 3.44 min Scan# 730

Delta R.T. -0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

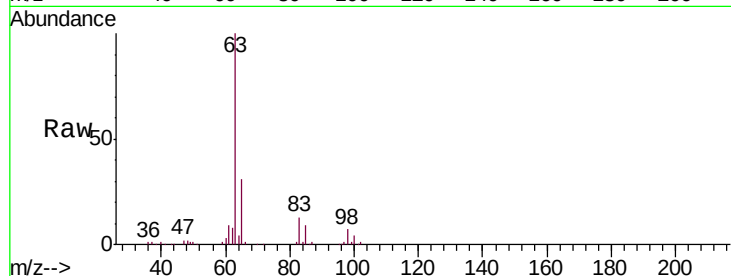
Tgt Ion: 63 Resp: 372919

Ion Ratio Lower Upper

63 100

65 31.4 21.4 39.8

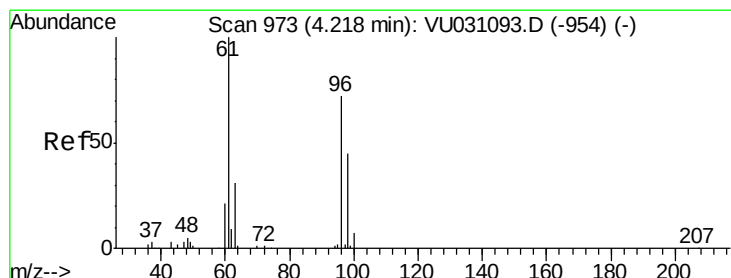
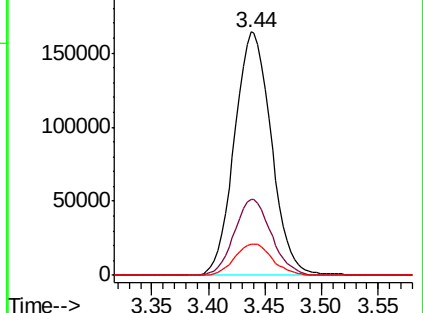
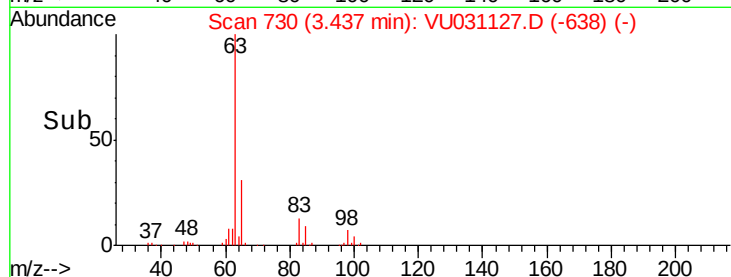
83 13.0 8.5 15.7



Abundance Ion 63.00 (62.70 to 63.70): VU031127.D (-638) (-)

Ion 65.00 (64.70 to 65.70): VU031127.D (-638) (-)

Ion 83.00 (82.70 to 83.70): VU031127.D (-638) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.513 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

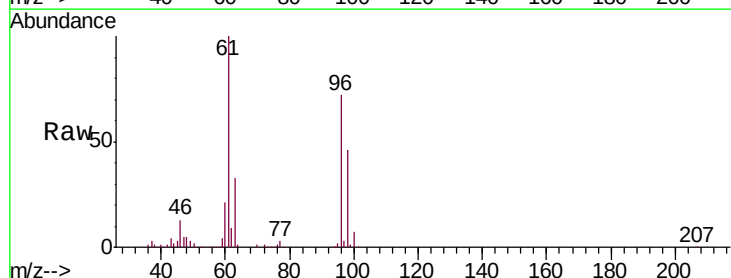
Tgt Ion: 96 Resp: 209785

Ion Ratio Lower Upper

96 100

61 138.0 102.9 191.1

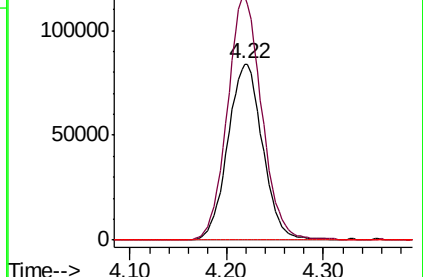
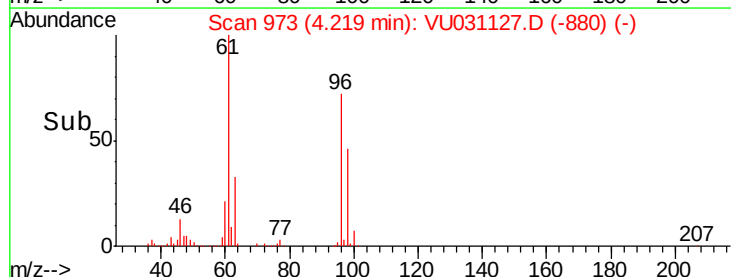
68 0.0 0.0 0.0

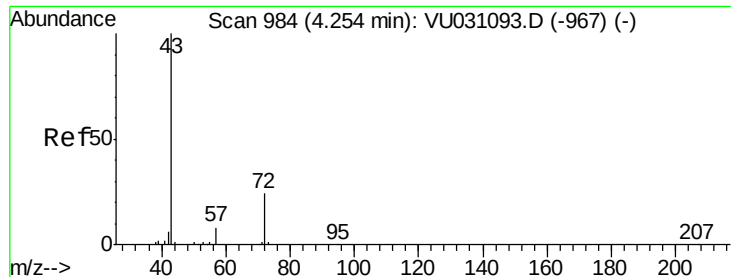


Abundance Ion 96.00 (95.70 to 96.70): VU031127.D (-880) (-)

Ion 61.00 (60.70 to 61.70): VU031127.D (-880) (-)

Ion 68.00 (67.70 to 68.70): VU031127.D (-880) (-)





#22

2-Butanone

Concen: 98.915 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

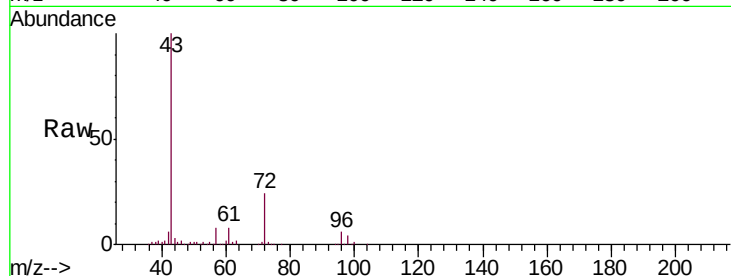
VSTD05033

Tgt Ion: 43 Resp: 421923

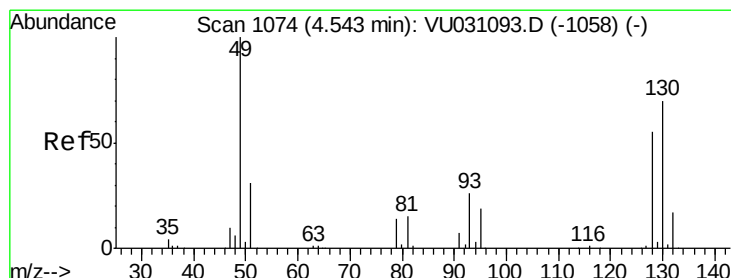
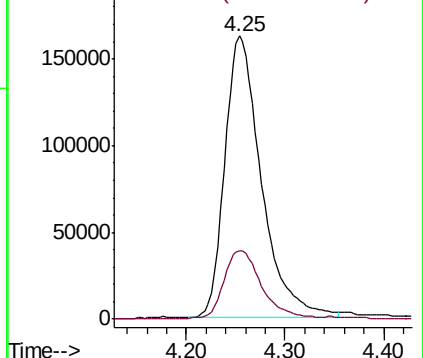
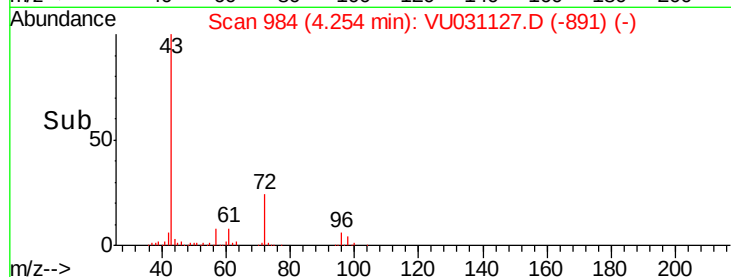
Ion Ratio Lower Upper

43 100

72 25.4 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU031127.D (-891) (-)



#23

Bromochloromethane

Concen: 54.418 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Tgt Ion: 128 Resp: 104773

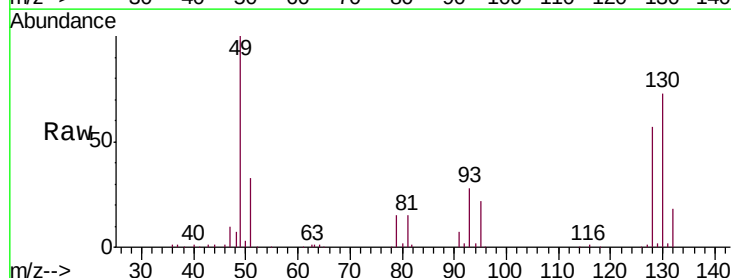
Ion Ratio Lower Upper

128 100

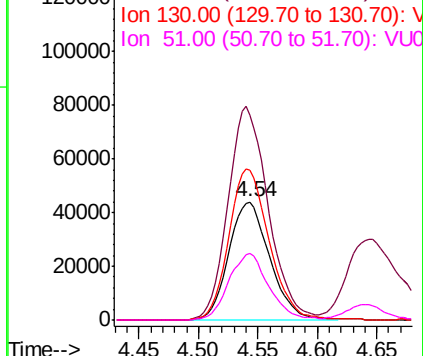
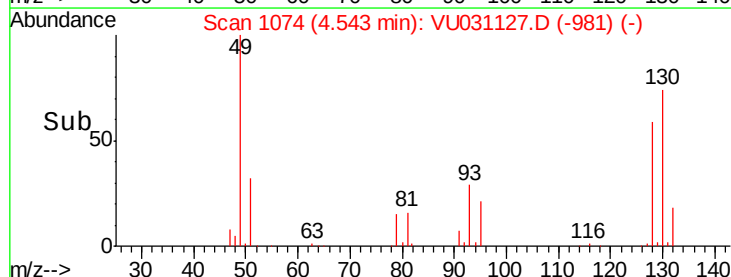
49 174.4 139.9 259.7

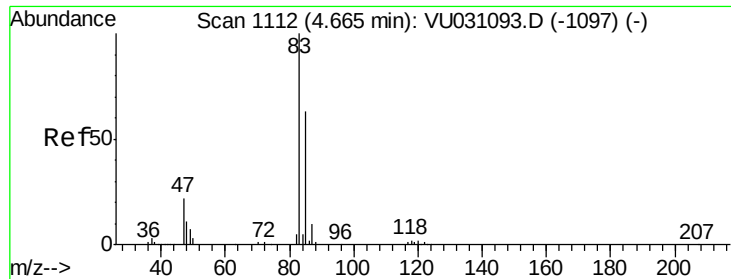
130 127.0 86.6 160.8

51 56.7 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU031127.D (-981) (-)

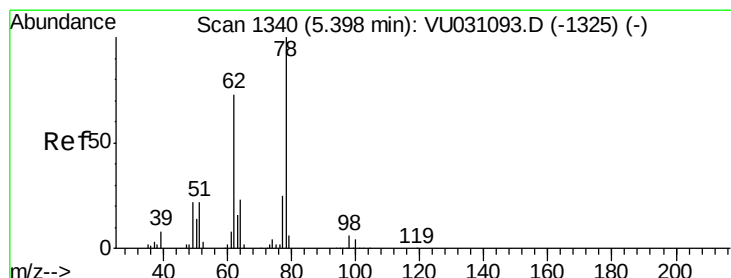
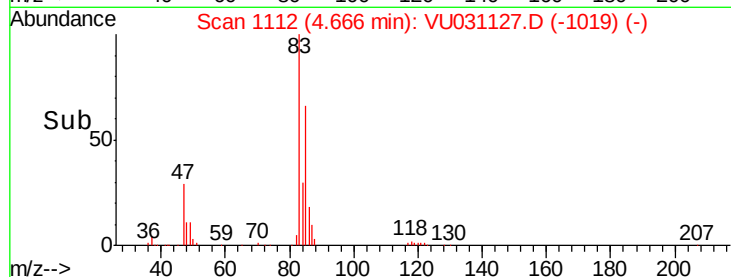
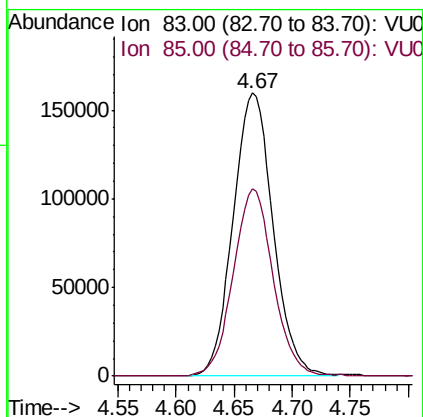
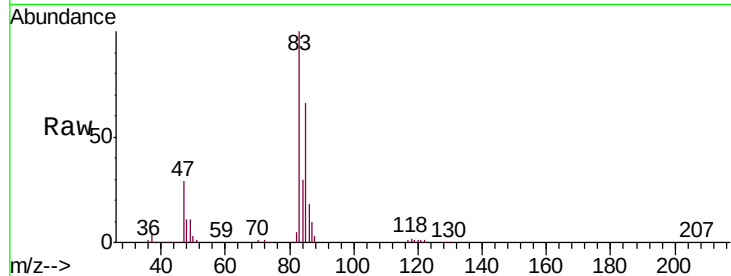




#25
Chloroform
Concen: 50.163 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU031127.D
Acq: 12 Apr 2019 14:43

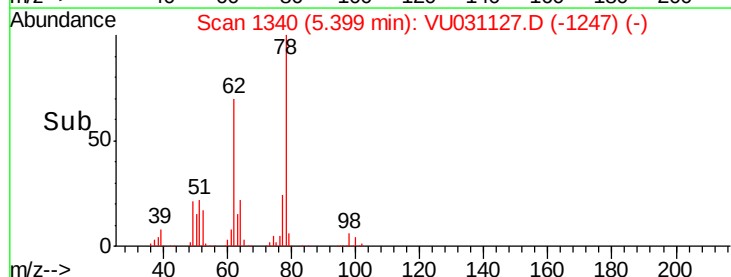
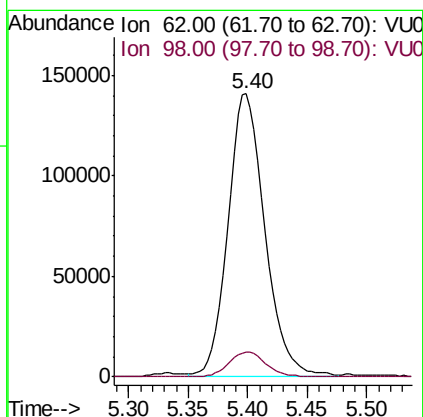
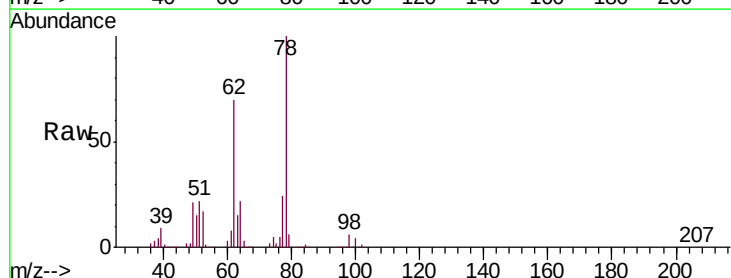
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

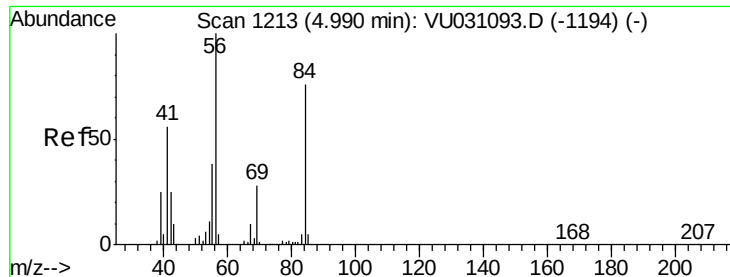
Tgt Ion: 83 Resp: 383755
Ion Ratio Lower Upper
83 100
85 66.2 45.8 85.0



#27
1,2-Dichloroethane
Concen: 51.449 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU031127.D
Acq: 12 Apr 2019 14:43

Tgt Ion: 62 Resp: 300398
Ion Ratio Lower Upper
62 100
98 8.7 7.2 10.8

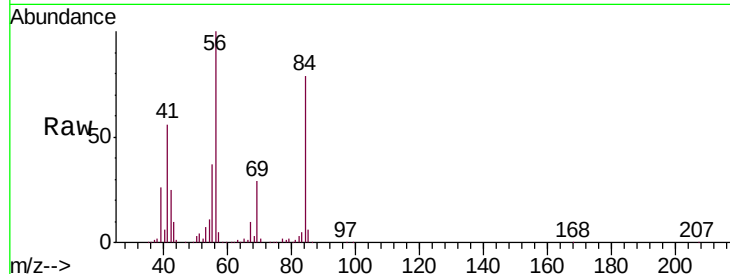




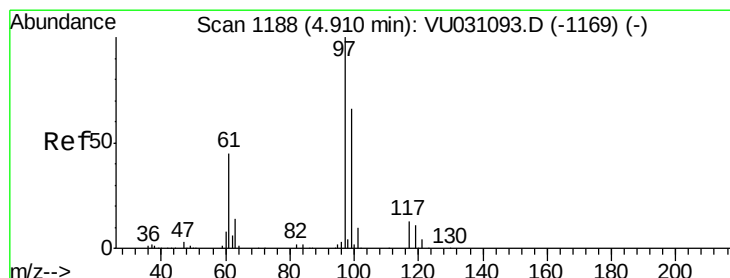
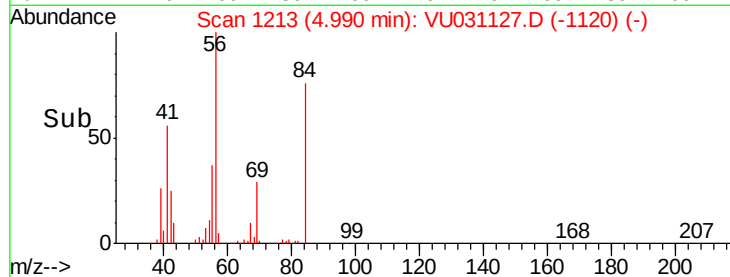
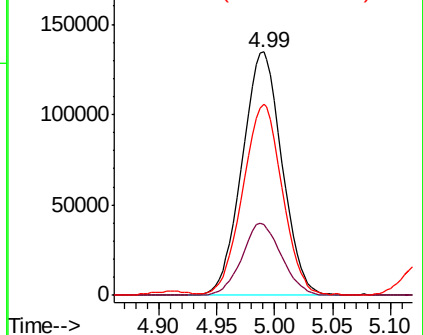
#29
Cyclohexane
Concen: 46.408 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031127.D
Acq: 12 Apr 2019 14:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Tgt Ion: 56 Resp: 322838
Ion Ratio Lower Upper
56 100
69 29.3 22.0 33.0
84 77.3 58.2 87.2

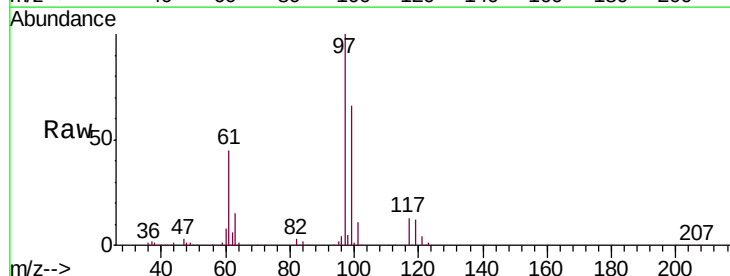


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

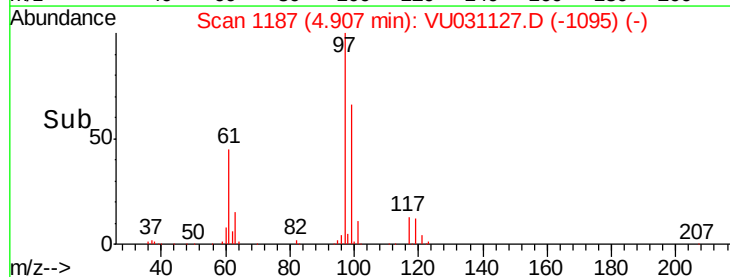
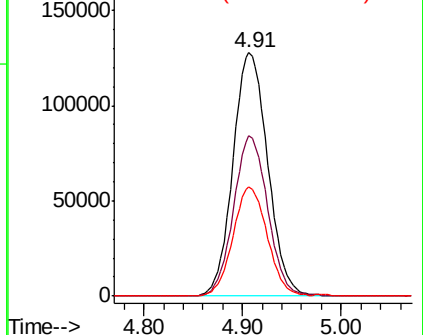


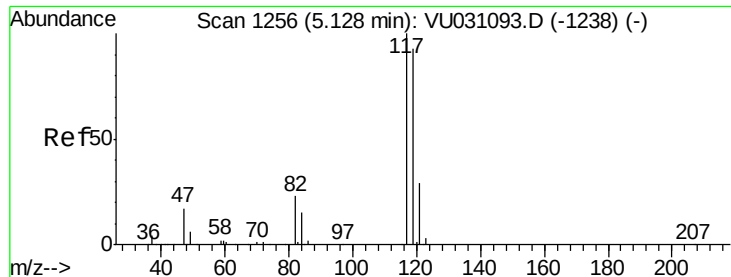
#30
1,1,1-Trichloroethane
Concen: 52.578 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU031127.D
Acq: 12 Apr 2019 14:43

Tgt Ion: 97 Resp: 312745
Ion Ratio Lower Upper
97 100
99 64.6 51.4 77.2
61 44.4 37.1 55.7



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 52.356 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

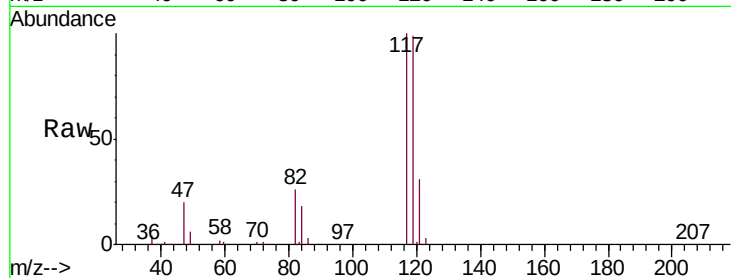
VSTD05033

Tgt Ion:117 Resp: 268365

Ion Ratio Lower Upper

117 100

119 97.0 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

120000

100000

80000

60000

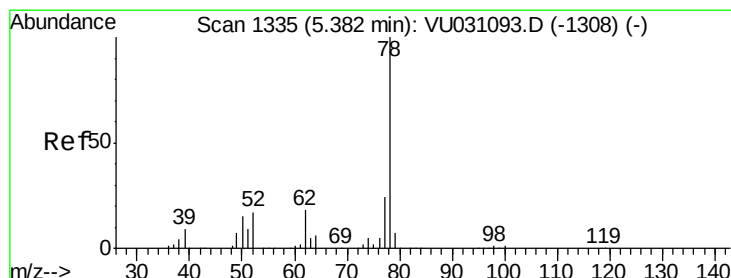
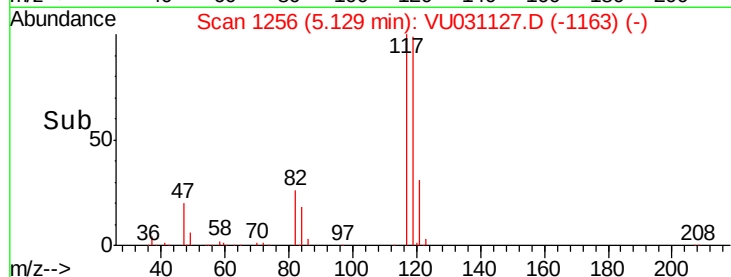
40000

20000

0

Time-->

5.05 5.10 5.15 5.20



#33

Benzene

Concen: 51.360 ug/L

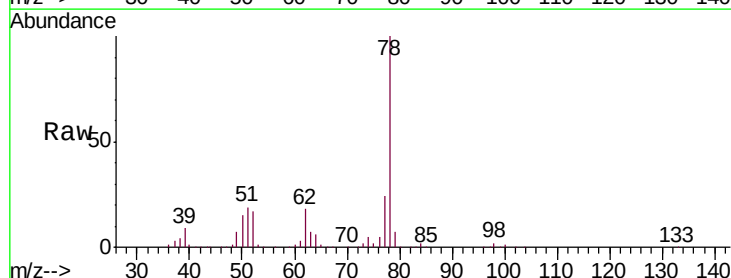
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Tgt Ion: 78 Resp: 820330



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.38

400000

300000

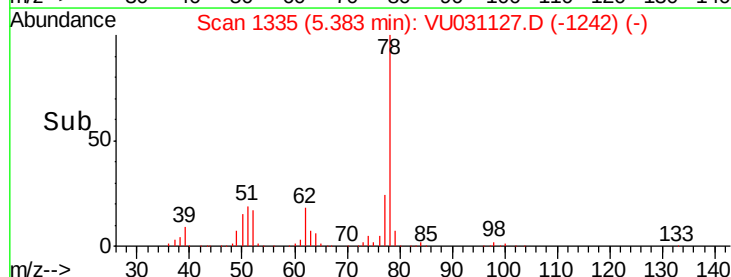
200000

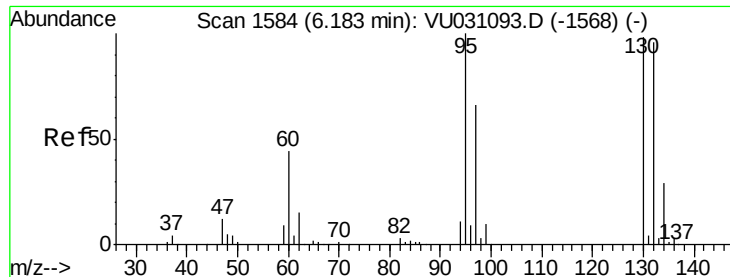
100000

0

Time-->

5.30 5.40 5.50





#34

Trichloroethene

Concen: 51.923 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

Tgt Ion: 95 Resp: 203406

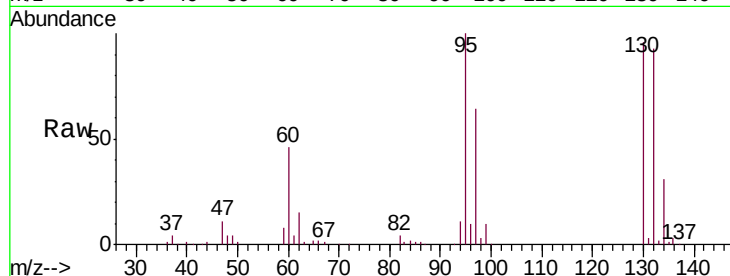
Ion Ratio Lower Upper

95 100

97 63.7 44.5 82.7

132 92.6 61.5 114.1

130 96.0 64.9 120.5

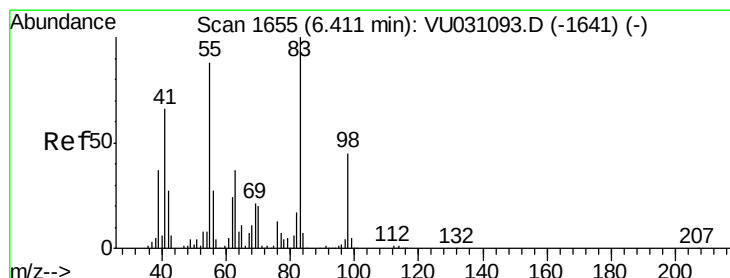
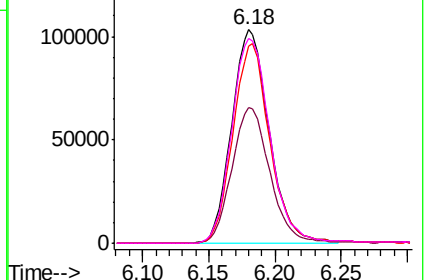
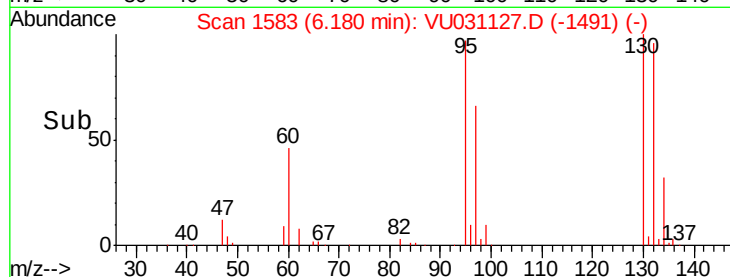


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 51.654 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

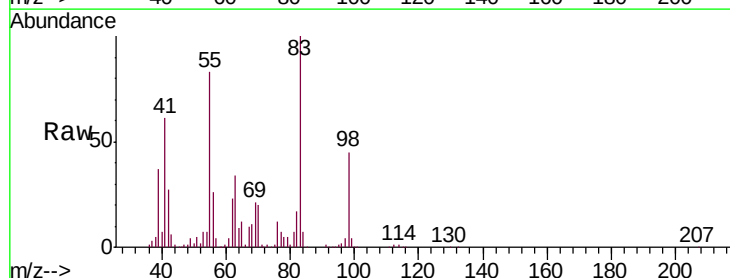
Tgt Ion: 83 Resp: 312282

Ion Ratio Lower Upper

83 100

55 85.1 71.6 107.4

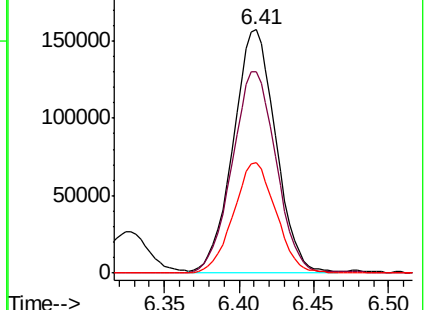
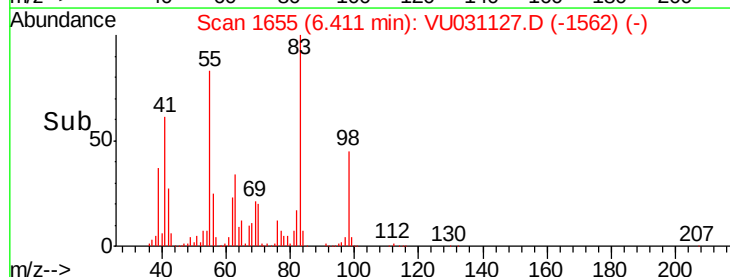
98 45.2 35.4 53.0

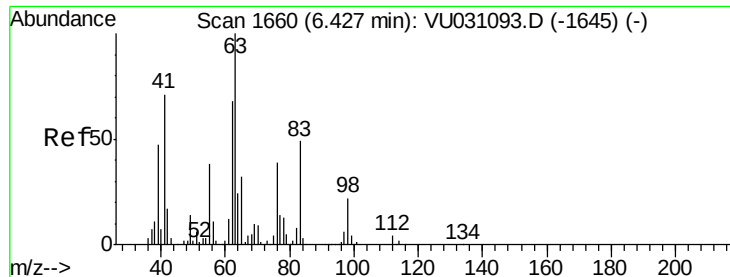


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

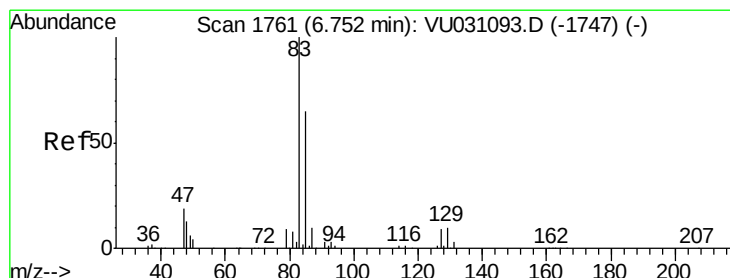
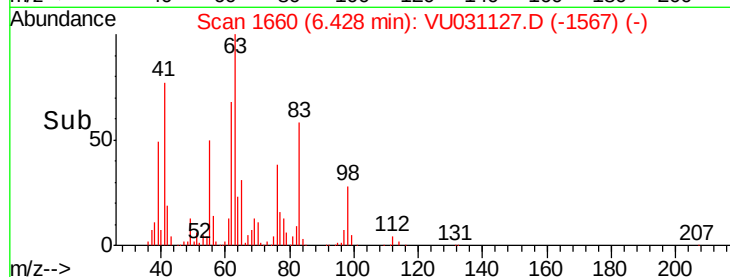
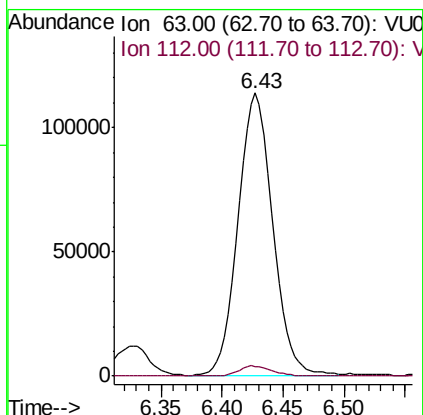
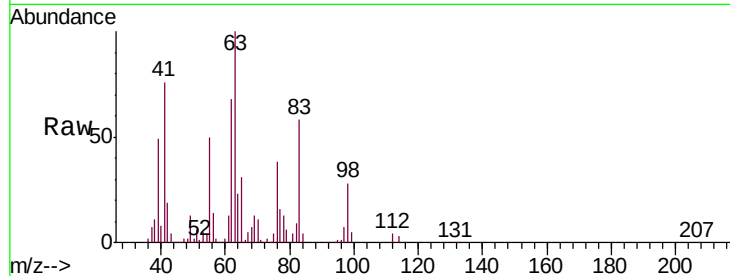




#37
 1,2-Dichloropropane
 Concen: 49.677 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

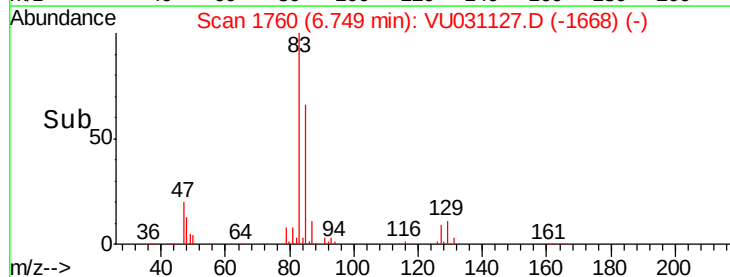
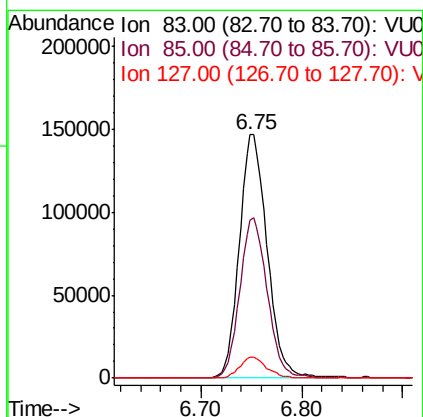
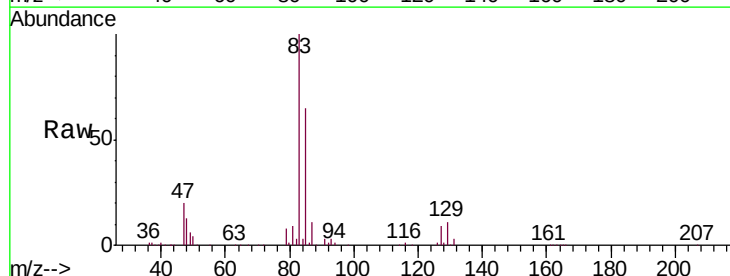
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

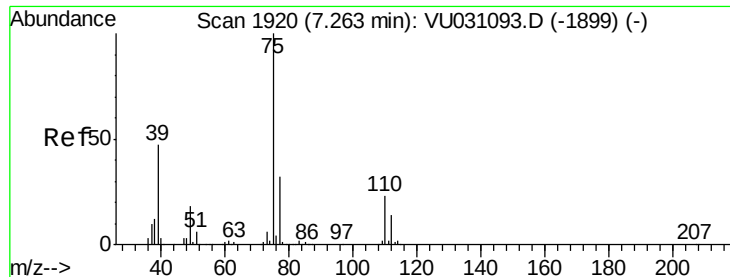
Tgt Ion: 63 Resp: 224672
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.0 4.4



#38
 Bromodichloromethane
 Concen: 51.332 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

Tgt Ion: 83 Resp: 280070
 Ion Ratio Lower Upper
 83 100
 85 64.7 46.5 86.3
 127 8.6 6.6 10.0

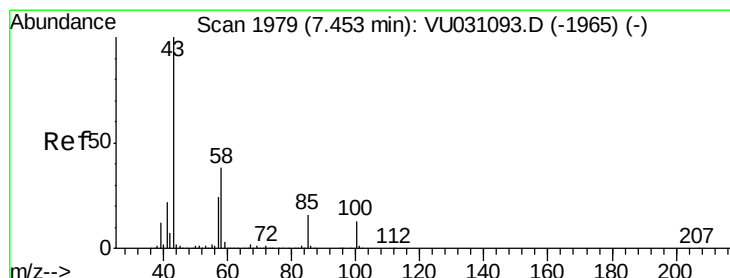
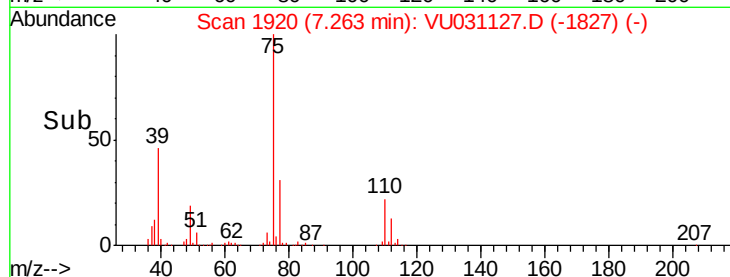
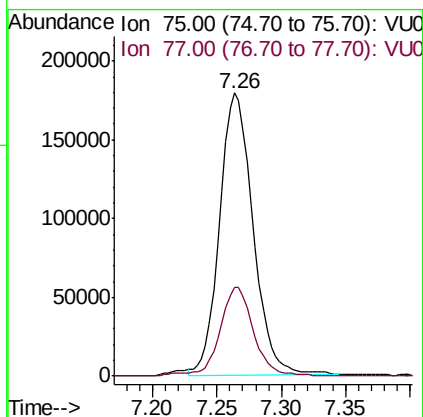
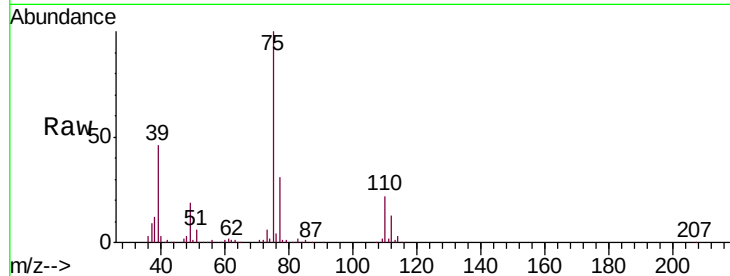




#39
 cis-1,3-Dichloropropene
 Concen: 50.140 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

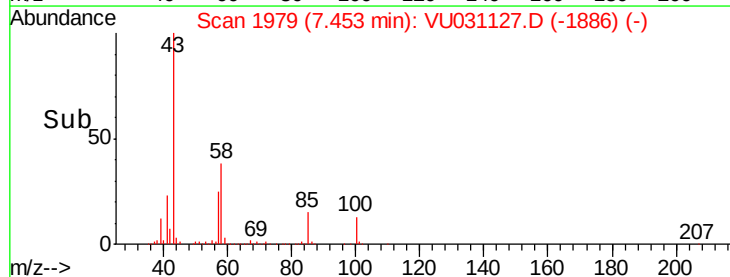
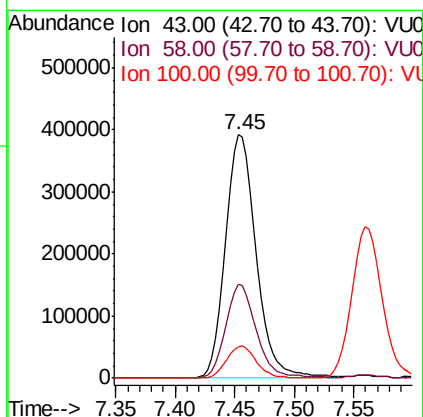
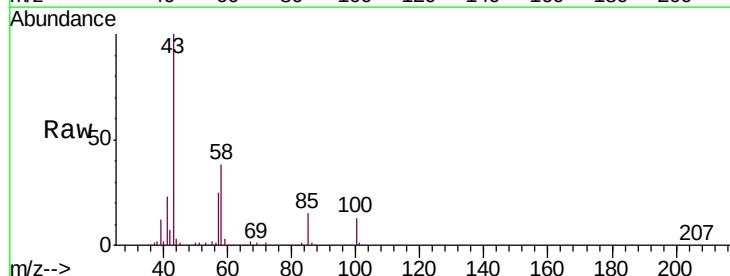
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

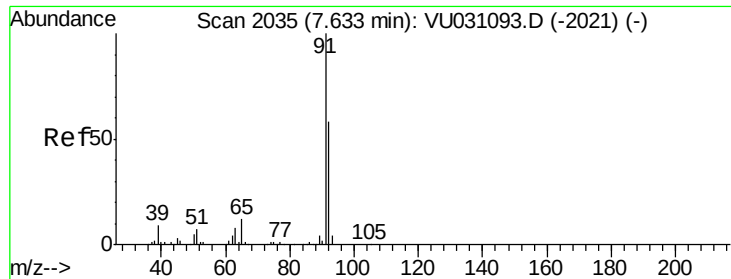
Tgt Ion: 75 Resp: 322765
 Ion Ratio Lower Upper
 75 100
 77 31.2 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 96.738 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

Tgt Ion: 43 Resp: 703564
 Ion Ratio Lower Upper
 43 100
 58 38.1 29.7 44.5
 100 12.9 9.8 14.6





#42

Toluene

Concen: 52.039 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

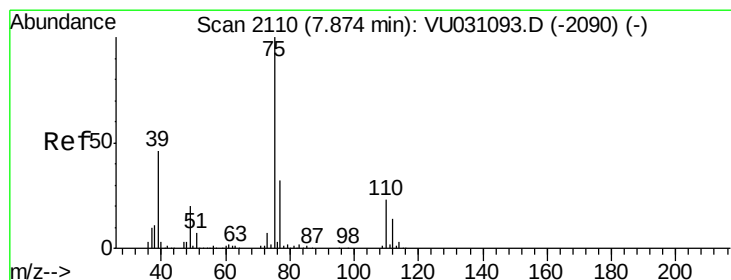
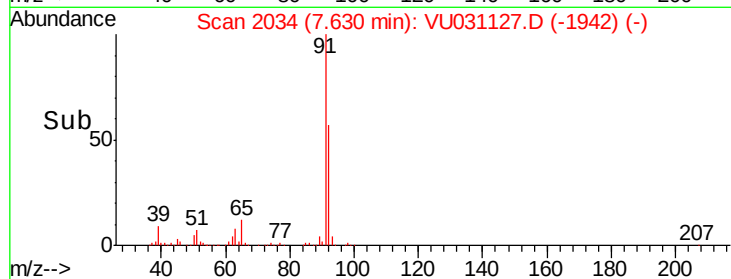
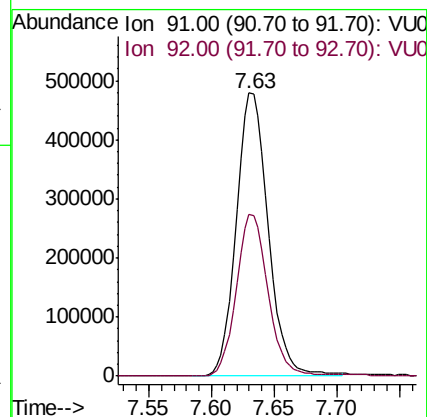
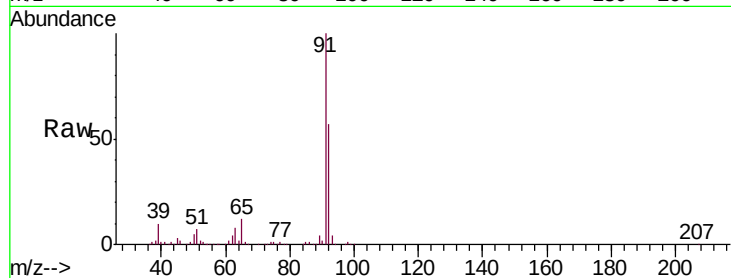
VSTD05033

Tgt Ion: 91 Resp: 848438

Ion Ratio Lower Upper

91 100

92 57.0 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 51.967 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU031127.D

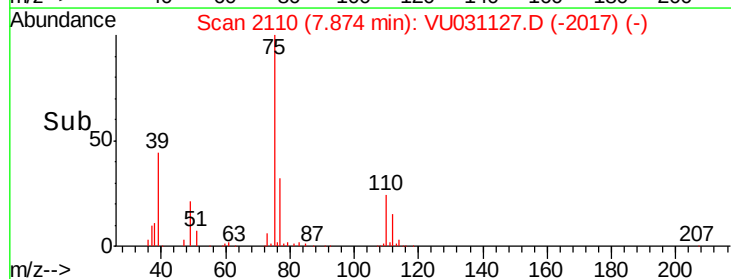
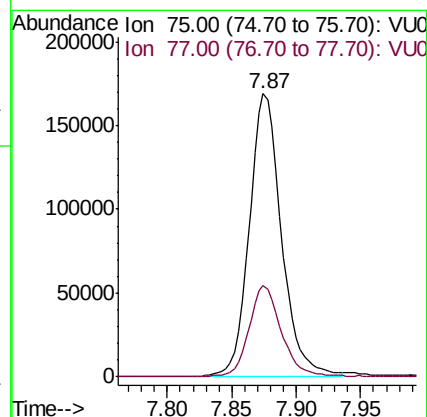
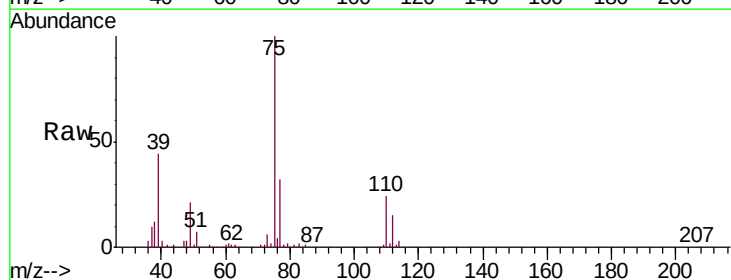
Acq: 12 Apr 2019 14:43

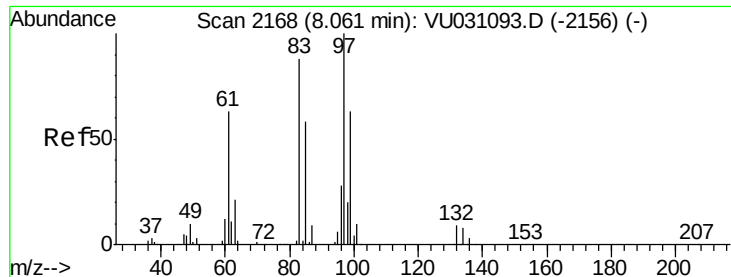
Tgt Ion: 75 Resp: 294812

Ion Ratio Lower Upper

75 100

77 32.2 21.6 40.0

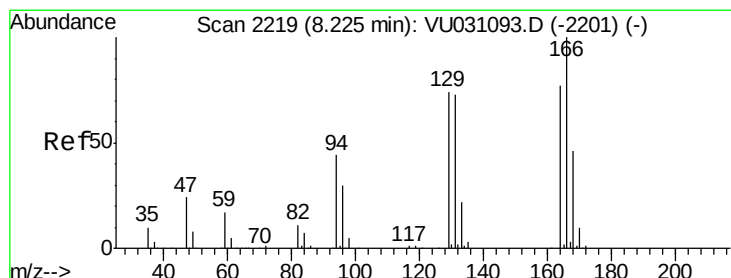
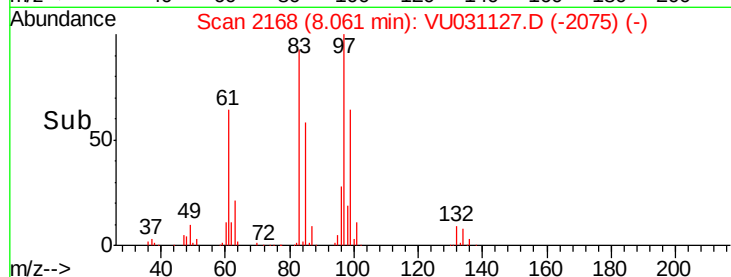
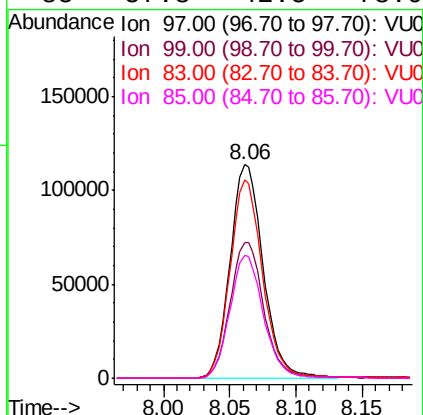
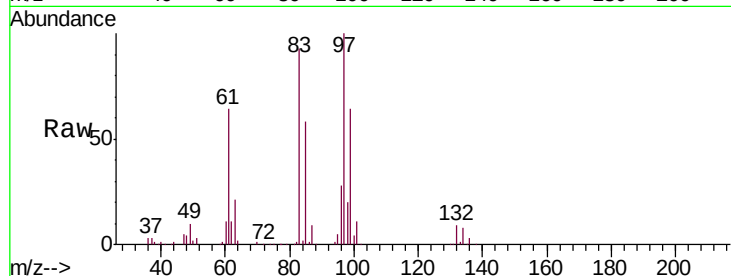




#45
 1,1,2-Trichloroethane
 Concen: 51.571 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

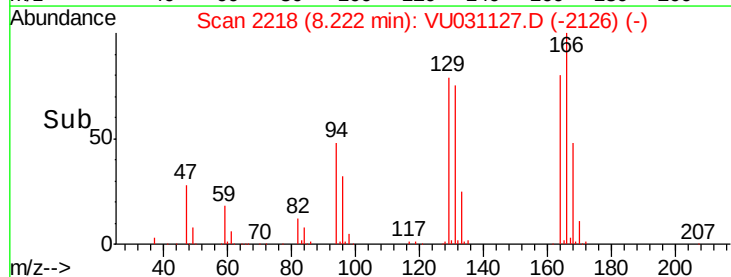
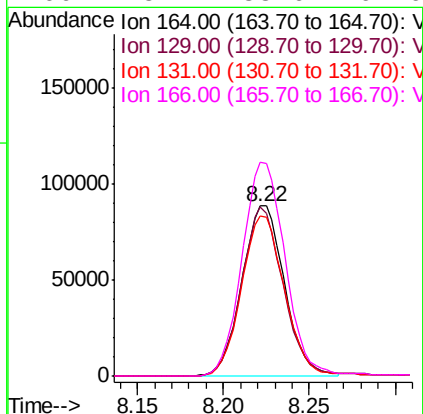
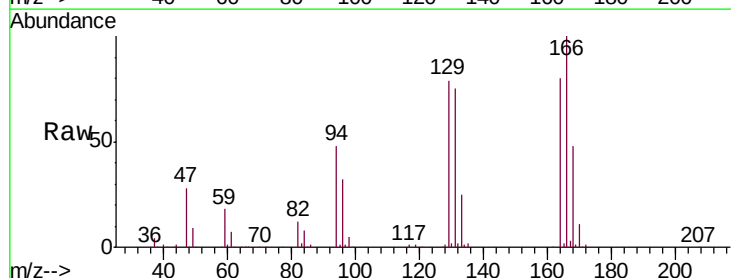
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

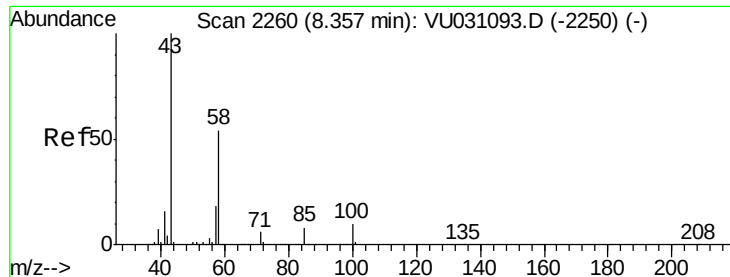
Tgt Ion:	97	Resp:	197808
Ion	Ratio	Lower	Upper
97	100		
99	63.6	44.0	81.8
83	93.0	65.3	121.3
85	57.8	42.5	78.9



#46
 Tetrachloroethene
 Concen: 53.420 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

Tgt Ion:	164	Resp:	152146
Ion	Ratio	Lower	Upper
164	100		
129	99.7	67.4	125.2
131	94.3	65.9	122.5
166	125.7	88.6	164.6

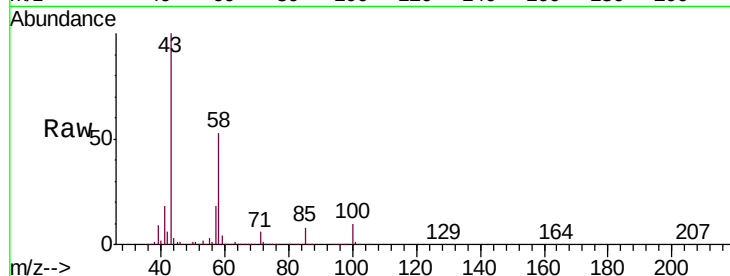




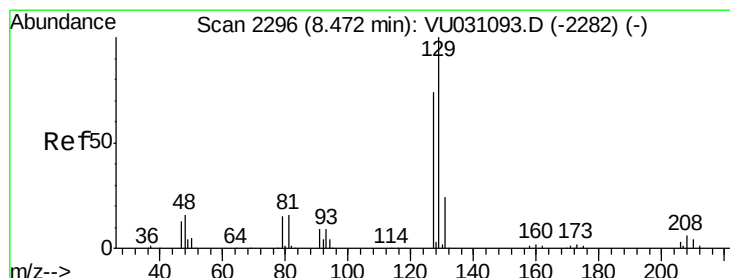
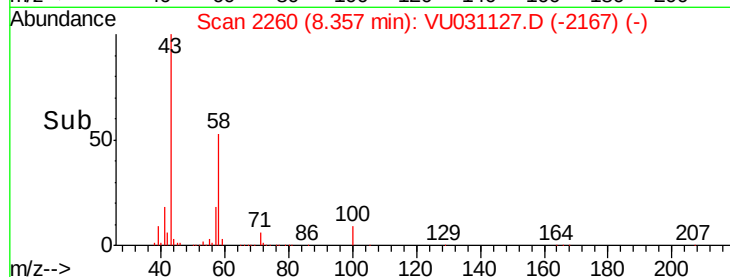
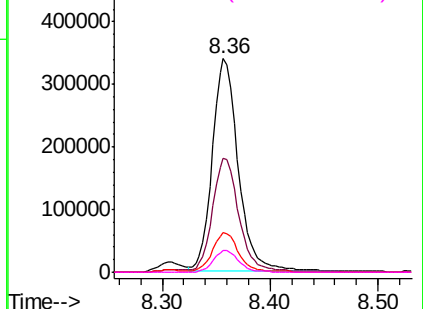
#48
2-Hexanone
Concen: 99.872 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU031127.D
Acq: 12 Apr 2019 14:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Tgt Ion: 43 Resp: 566692
Ion Ratio Lower Upper
43 100
58 54.4 41.9 62.9
57 17.6 14.3 21.5
100 10.2 7.1 10.7

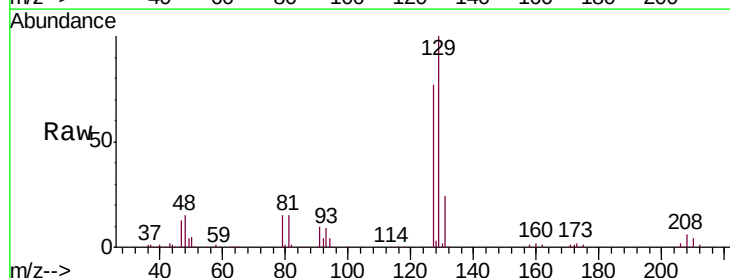


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

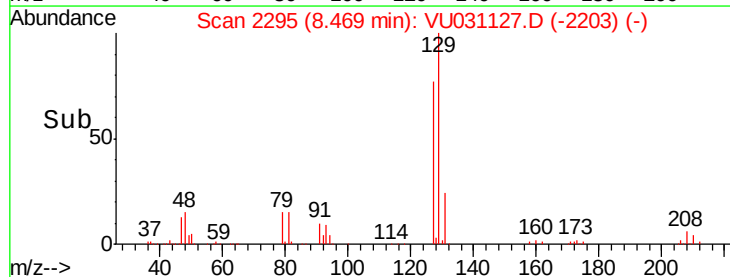
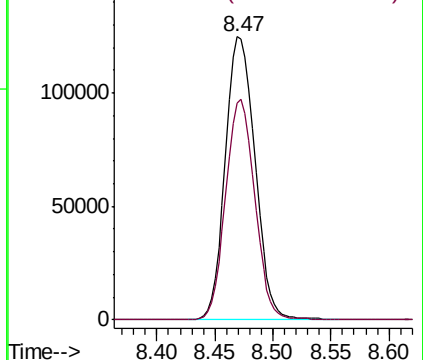


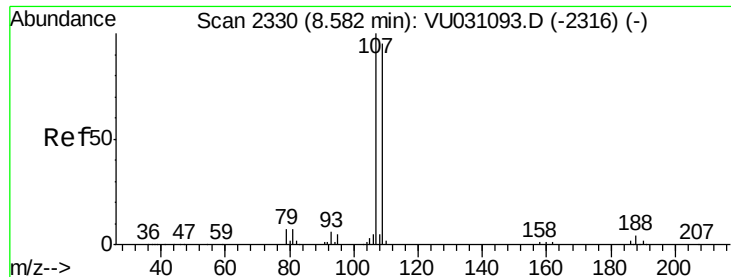
#49
Dibromochloromethane
Concen: 54.475 ug/L
RT: 8.47 min Scan# 2295
Delta R.T. -0.00 min
Lab File: VU031127.D
Acq: 12 Apr 2019 14:43

Tgt Ion: 129 Resp: 221716
Ion Ratio Lower Upper
129 100
127 76.6 54.5 101.3



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





#50

1,2-Dibromoethane

Concen: 51.956 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

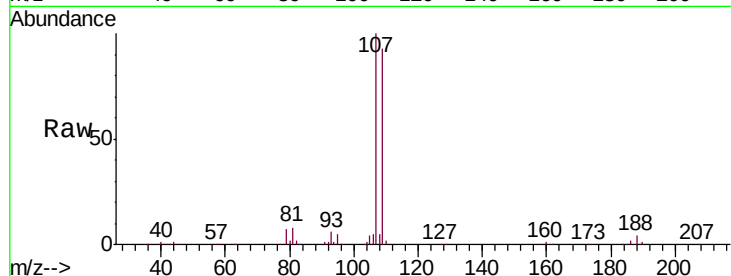
Tgt Ion:107 Resp: 215648

Ion Ratio Lower Upper

107 100

109 92.5 66.4 123.2

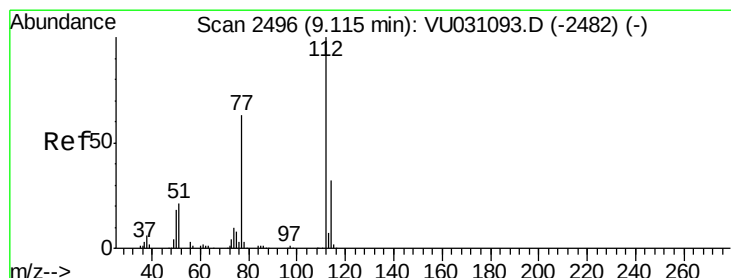
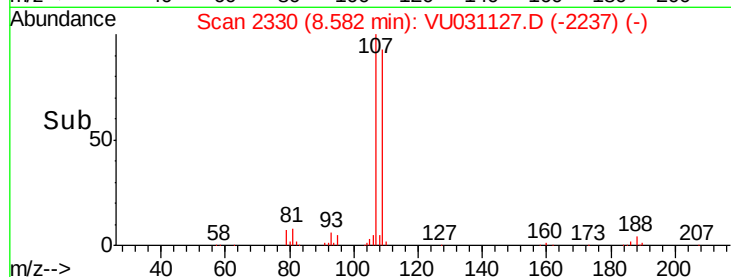
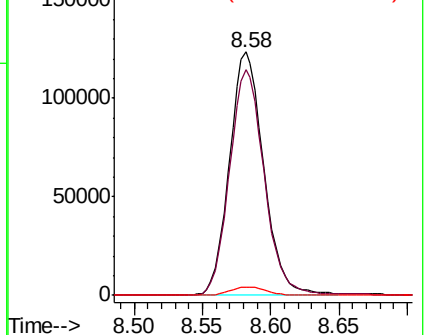
188 3.5 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 52.528 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

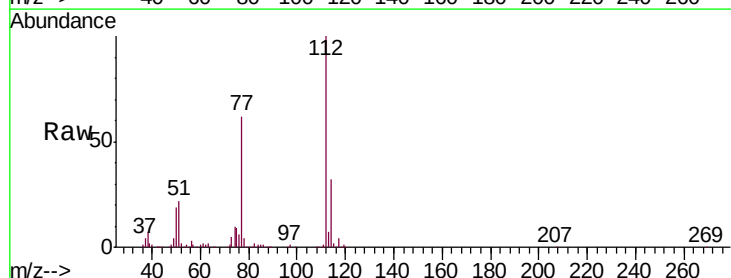
Tgt Ion:112 Resp: 525256

Ion Ratio Lower Upper

112 100

114 31.9 22.2 41.2

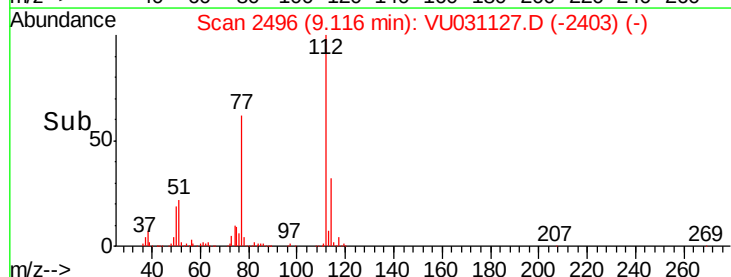
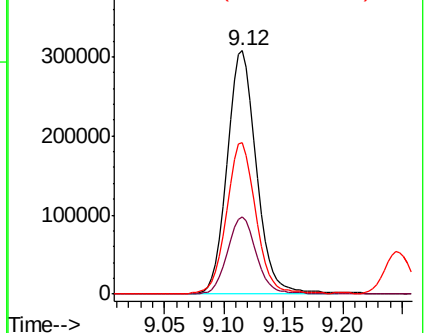
77 62.2 51.7 77.5

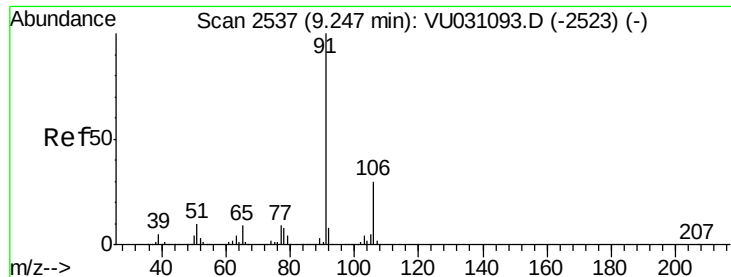


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 51.910 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

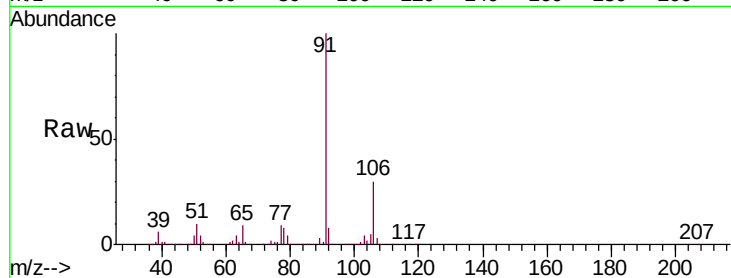
VSTD05033

Tgt Ion: 91 Resp: 922528

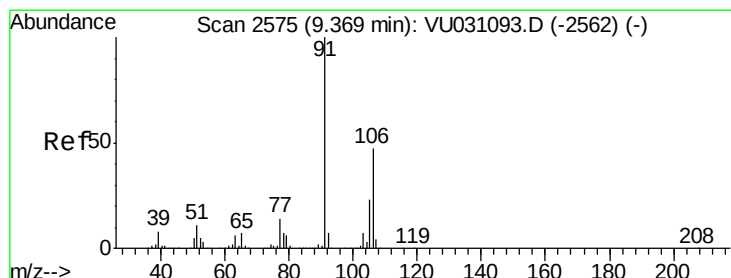
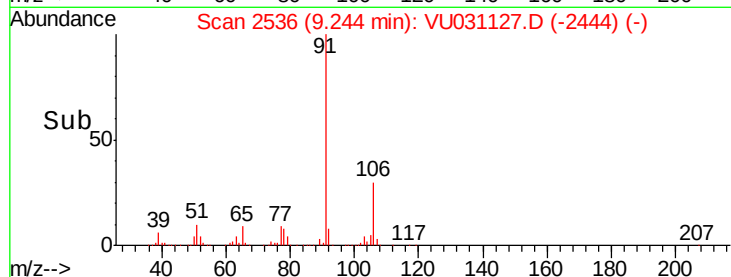
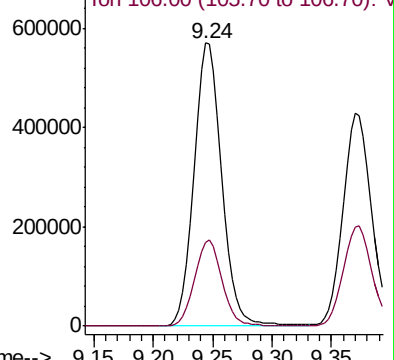
Ion Ratio Lower Upper

91 100

106 29.5 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU031127.D (-2444) (-)



#53

m,p-Xylene

Concen: 54.843 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031127.D

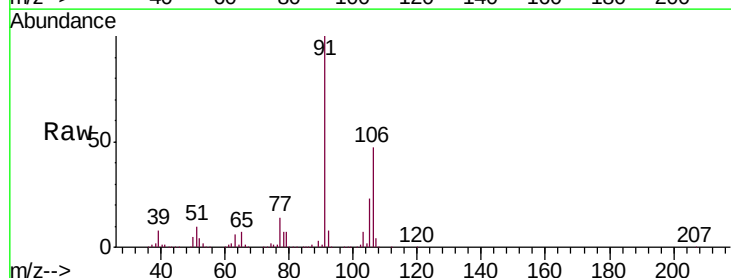
Acq: 12 Apr 2019 14:43

Tgt Ion: 106 Resp: 339921

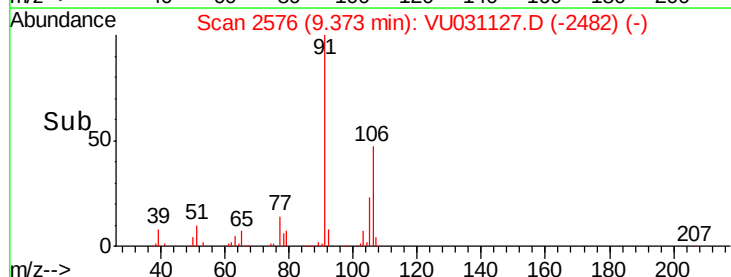
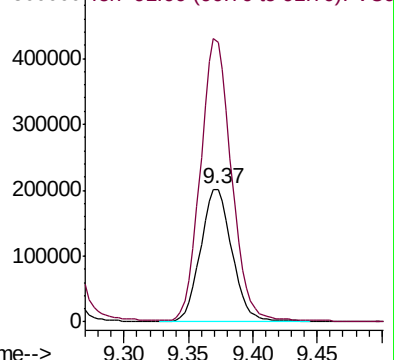
Ion Ratio Lower Upper

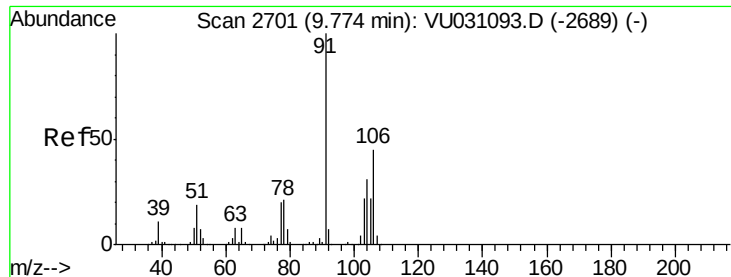
106 100

91 210.9 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): VU031127.D (-2482) (-)





#54

o-xylene

Concen: 53.104 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

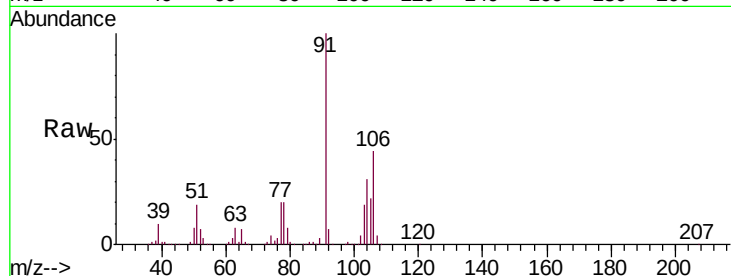
VSTD05033

Tgt Ion:106 Resp: 327398

Ion Ratio Lower Upper

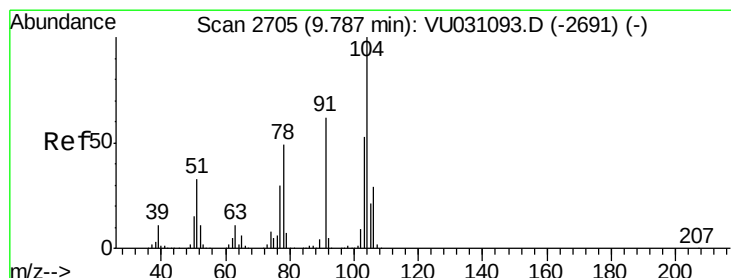
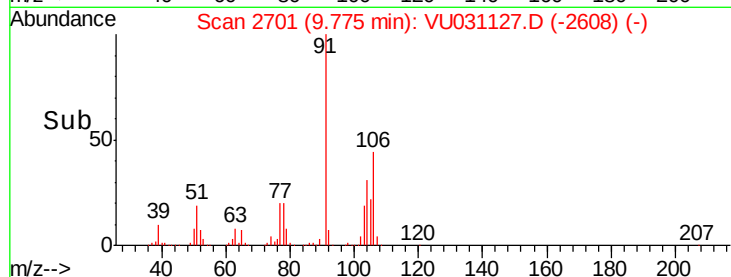
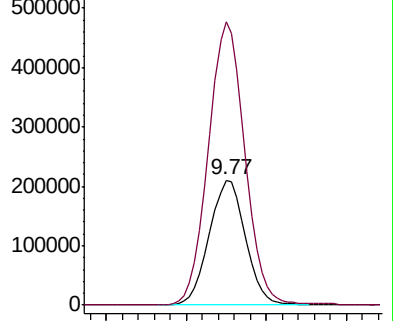
106 100

91 225.9 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.525 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031127.D

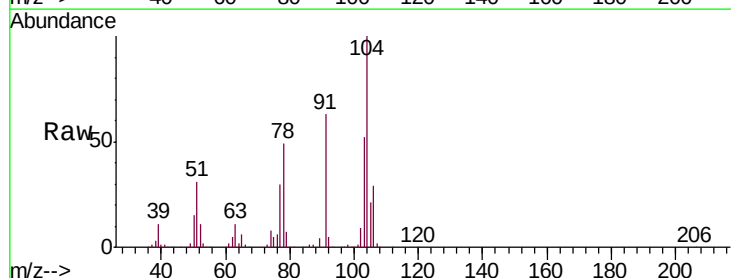
Acq: 12 Apr 2019 14:43

Tgt Ion:104 Resp: 587172

Ion Ratio Lower Upper

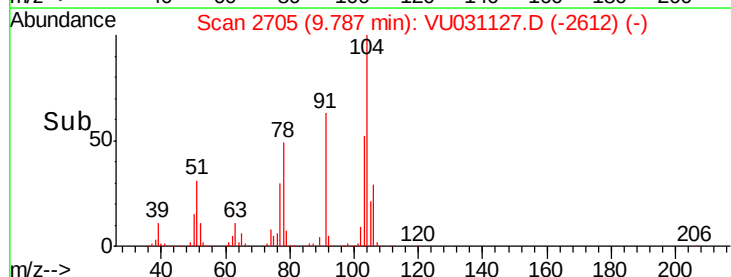
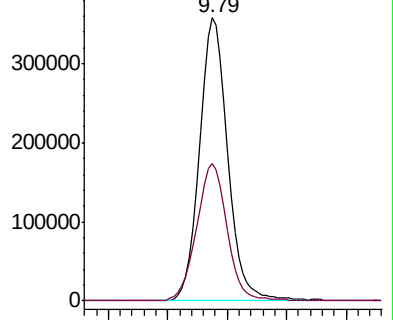
104 100

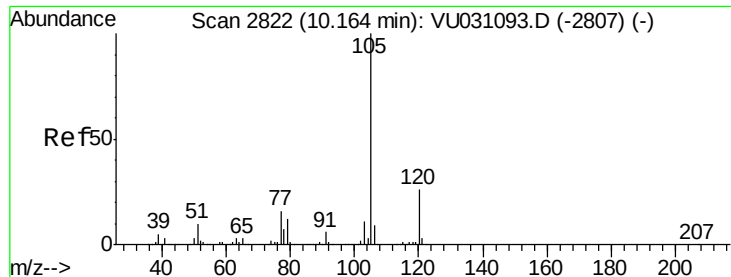
78 48.7 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.772 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

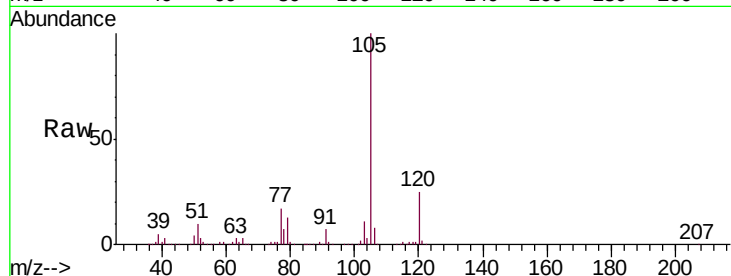
Tgt Ion: 105 Resp: 872831

Ion Ratio Lower Upper

105 100

120 25.6 20.4 30.6

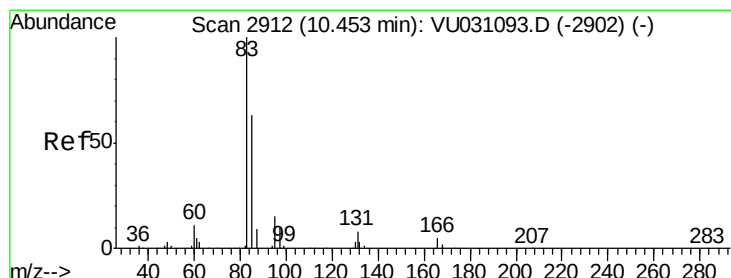
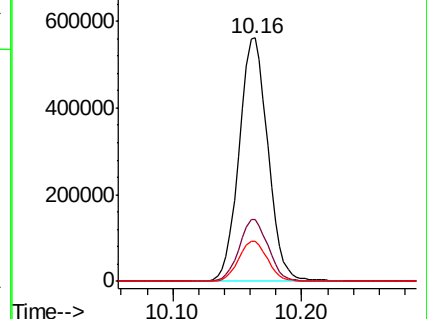
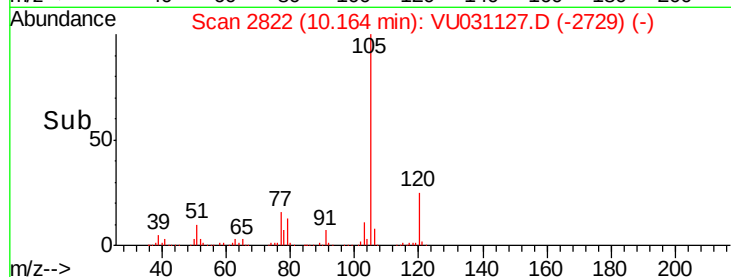
77 16.7 13.4 20.2



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: 50.956 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

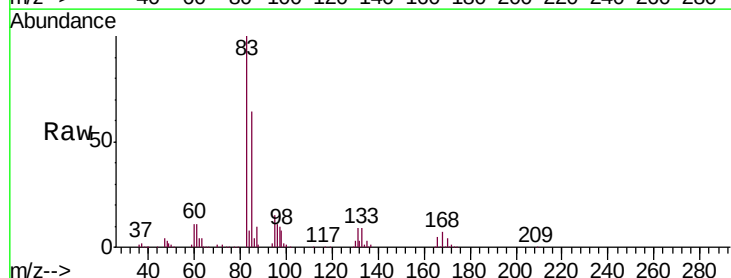
Tgt Ion: 83 Resp: 353527

Ion Ratio Lower Upper

83 100

85 63.7 45.3 84.1

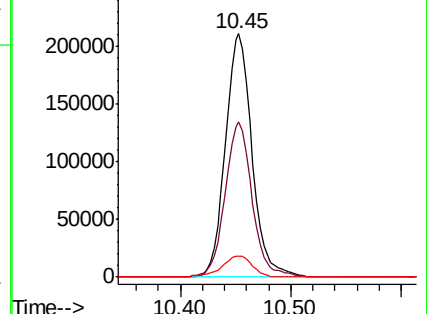
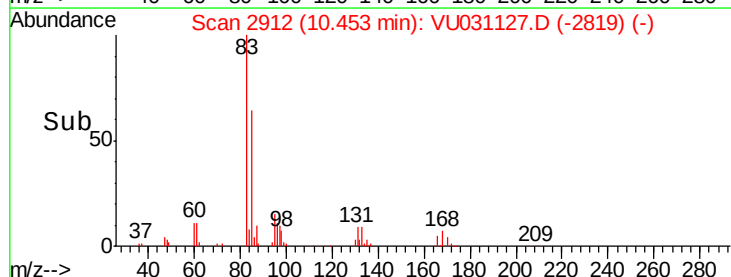
131 8.8 6.7 10.1

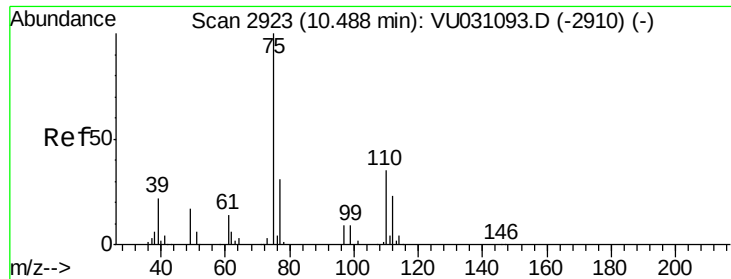


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

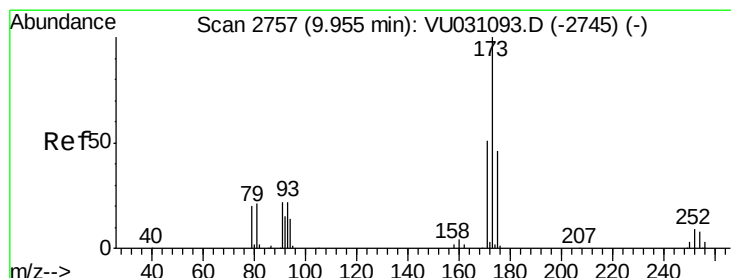
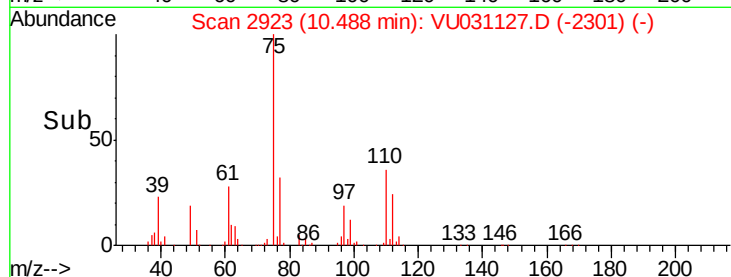
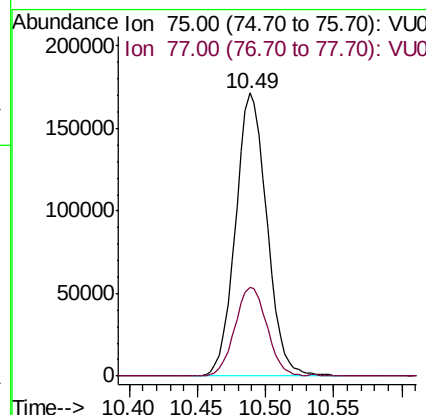
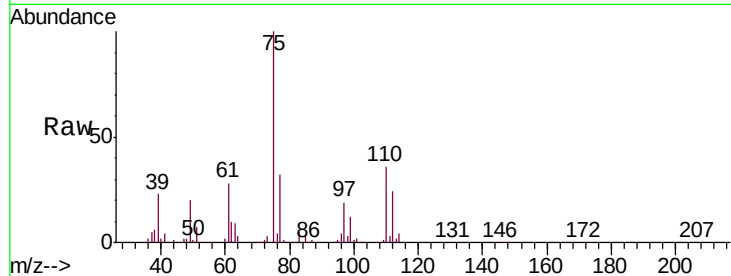




#59
 1,2,3-Trichloropropane
 Concen: 50.688 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

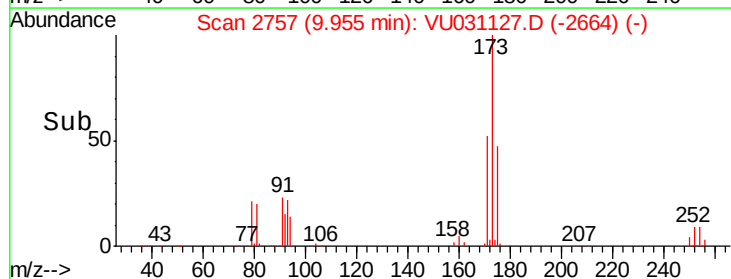
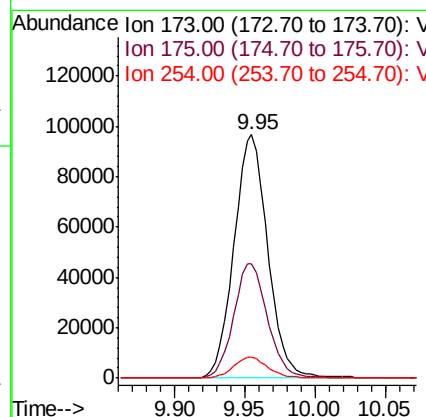
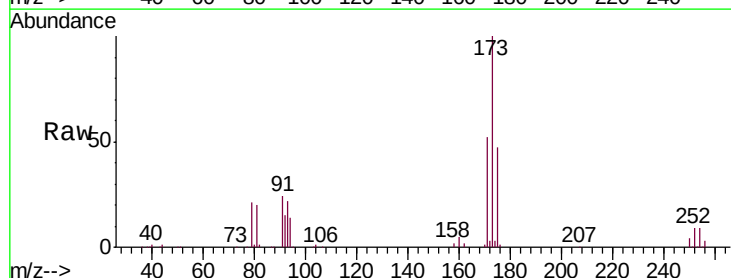
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

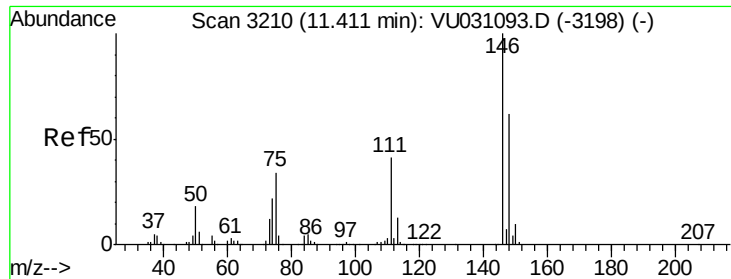
Tgt Ion: 75 Resp: 274558
 Ion Ratio Lower Upper
 75 100
 77 32.1 26.1 39.1



#61
 Bromoform
 Concen: 51.983 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

Tgt Ion: 173 Resp: 162183
 Ion Ratio Lower Upper
 173 100
 175 47.4 39.1 58.7
 254 8.7 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 52.146 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

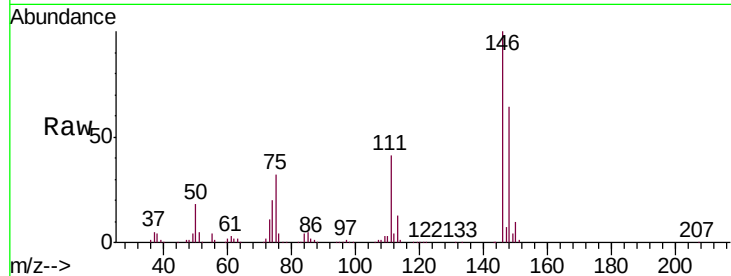
Tgt Ion:146 Resp: 389228

Ion Ratio Lower Upper

146 100

111 41.5 30.9 57.5

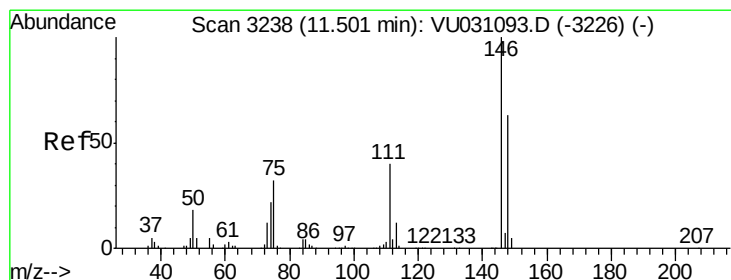
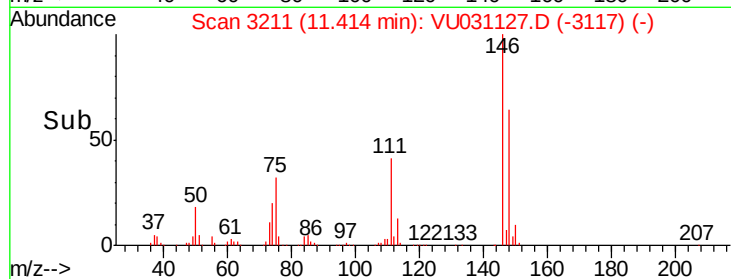
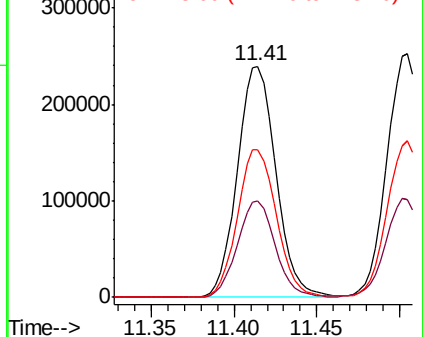
148 63.8 44.7 82.9



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: 52.703 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

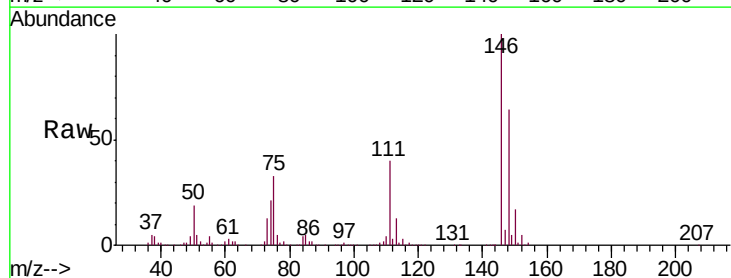
Tgt Ion:146 Resp: 400146

Ion Ratio Lower Upper

146 100

111 40.1 27.7 51.5

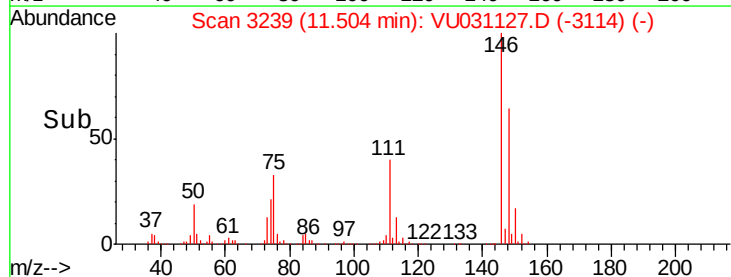
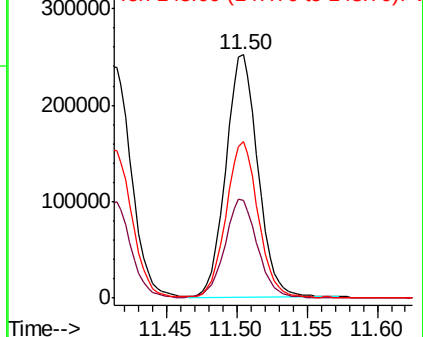
148 64.2 45.4 84.4

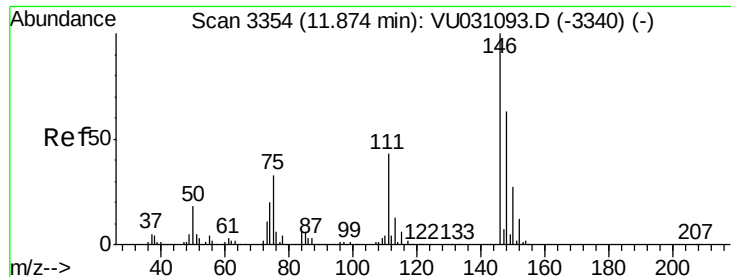


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

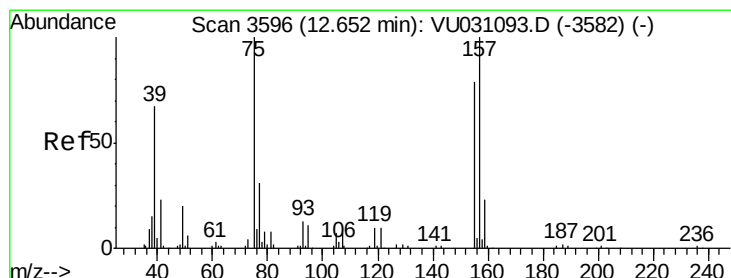
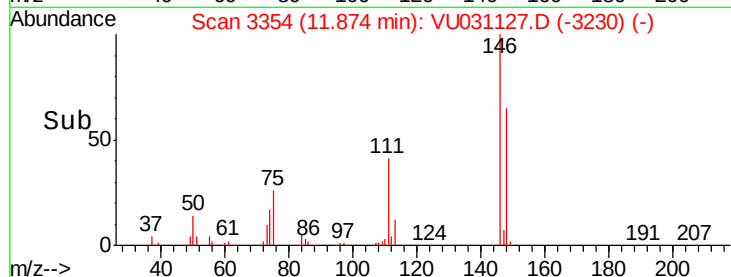
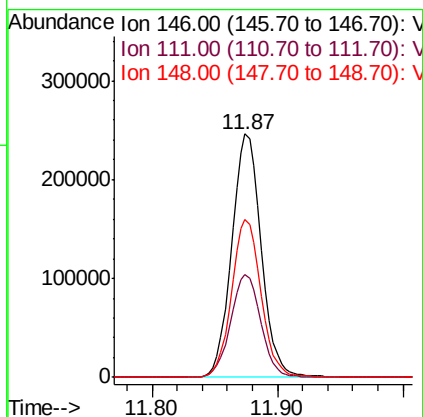
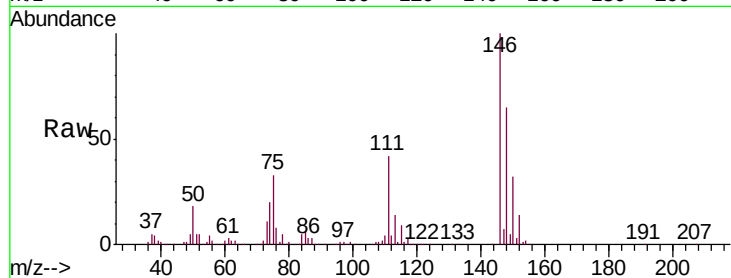




#65
 1,2-Dichlorobenzene
 Concen: 53.579 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

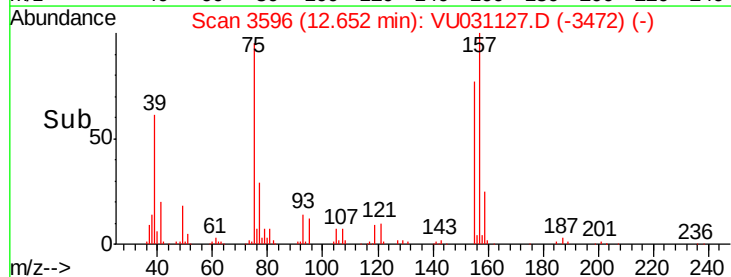
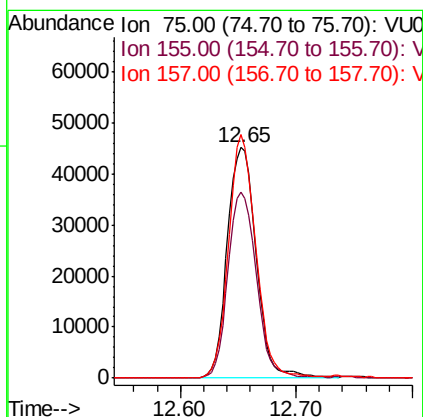
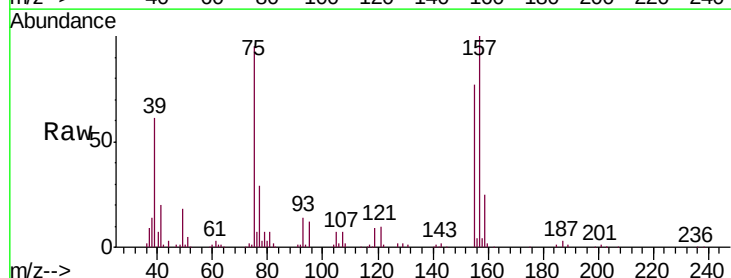
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

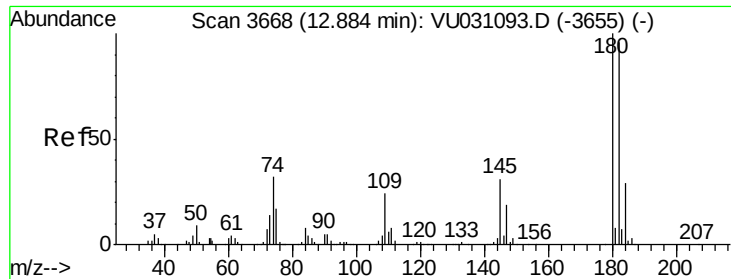
Tgt Ion:146 Resp: 401158
 Ion Ratio Lower Upper
 146 100
 111 42.1 34.9 52.3
 148 64.9 50.4 75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.229 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

Tgt Ion: 75 Resp: 78356
 Ion Ratio Lower Upper
 75 100
 155 81.0 64.1 96.1
 157 105.7 80.6 120.8

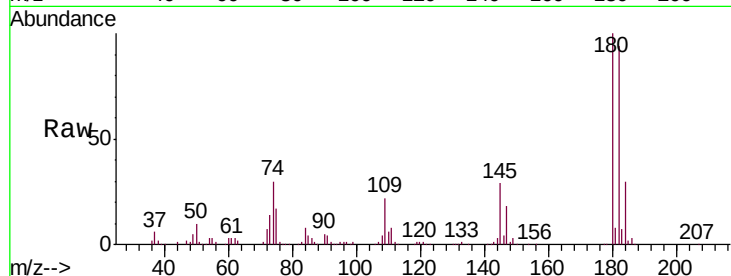




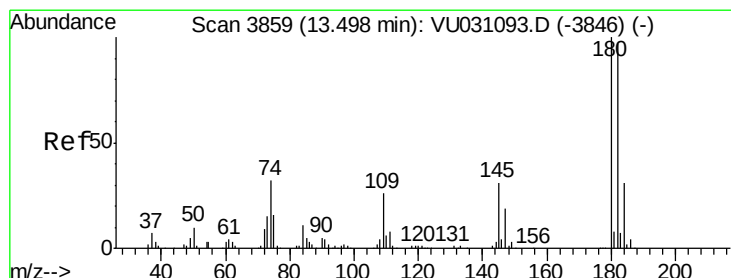
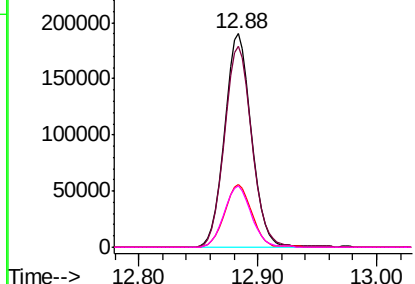
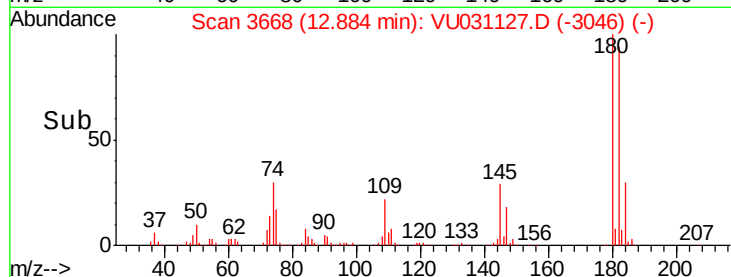
#67
 1,3,5-Trichlorobenzene
 Concen: 54.723 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

Tgt Ion:	180	Resp:	298510
Ion	Ratio	Lower	Upper
180	100		
182	96.1	78.3	117.5
184	30.0	24.7	37.1
145	29.3	24.2	36.4

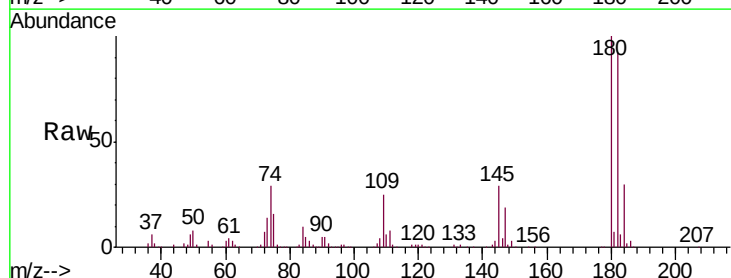


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

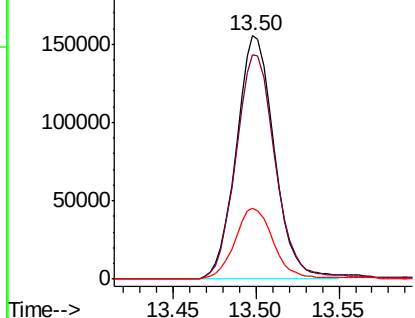
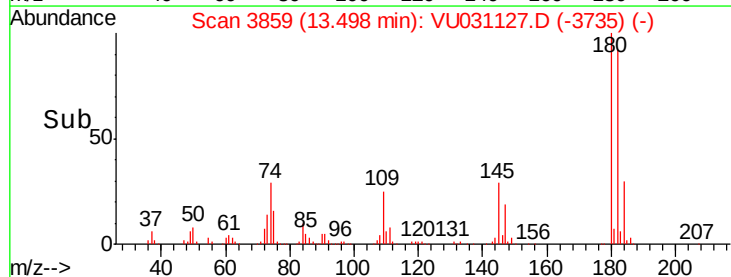


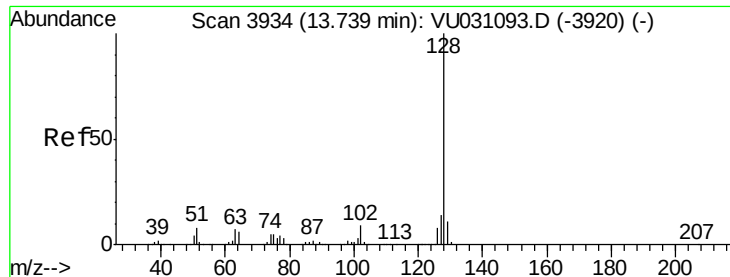
#68
 1,2,4-trichlorobenzene
 Concen: 53.574 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031127.D
 Acq: 12 Apr 2019 14:43

Tgt Ion:	180	Resp:	248475
Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.7	115.1
145	29.5	24.4	36.6



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: 51.614 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

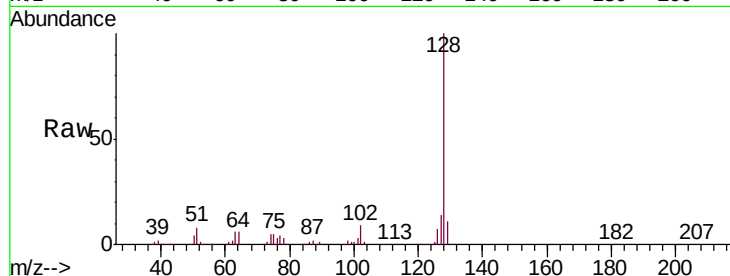
Tgt Ion:128 Resp: 776034

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

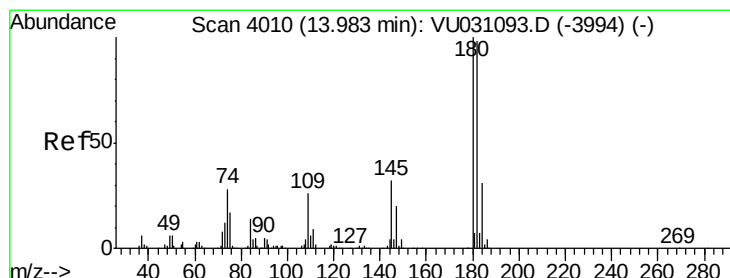
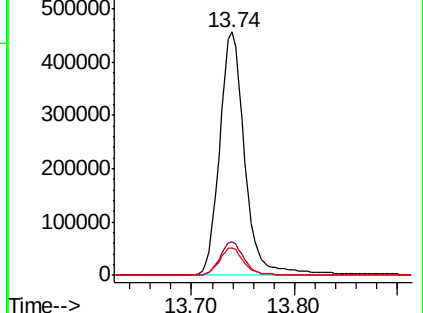
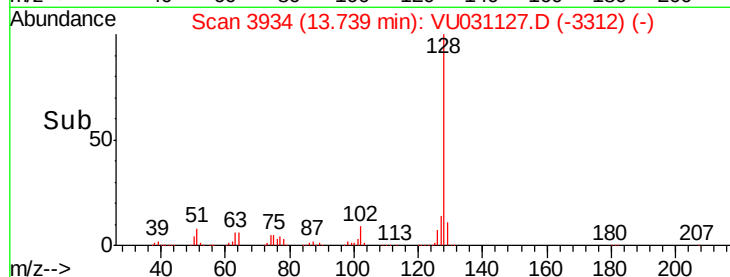
129 11.0 8.6 12.8



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: 53.191 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031127.D

Acq: 12 Apr 2019 14:43

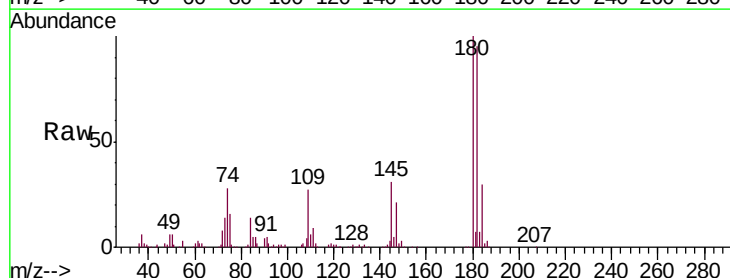
Tgt Ion:180 Resp: 257754

Ion Ratio Lower Upper

180 100

182 97.8 78.1 117.1

145 32.1 26.6 40.0



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

