

Data File : VU031504.D
Acq On : 25 Apr 2019 16:30
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Quant Time: Apr 26 01:37:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR042419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Apr 26 01:33:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	296600	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	295949	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	122377	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	103789	4.37	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.40%
7) Chloroethane-d5	1.68	69	86831	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.80%
11) 1,1-Dichloroethene-d2	2.27	63	217166	4.86	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.20%
20) 2-Butanone-d5	4.21	46	347256	54.55	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.10%
24) Chloroform-d	4.64	84	204454	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.60%
26) 1,2-Dichloroethane-d4	5.31	65	109004	5.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.80%
32) Benzene-d6	5.33	84	365020	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
36) 1,2-Dichloropropane-d6	6.33	67	127867	4.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.00%
41) Toluene-d8	7.56	98	314914	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.40%
43) trans-1,3-Dichloropropene-	7.85	79	45053	4.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.00%
46) 2-Hexanone-d5	8.31	63	220985	43.77	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.54%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	106225	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	103955	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	145751	5.727	ug/L 100
3) Chloromethane	1.32	50	177520	5.662	ug/L 97
5) Vinyl chloride	1.40	62	171592	5.544	ug/L 95
6) Bromomethane	1.63	94	83055	5.226	ug/L 98
8) Chloroethane	1.70	64	94792	5.411	ug/L 98
9) Trichlorofluoromethane	1.88	101	204818	5.746	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	112282	5.447	ug/L 97
12) 1,1-Dichloroethene	2.28	96	106480	5.166	ug/L 93
13) Acetone	2.35	43	263323	58.210	ug/L 99
14) Carbon disulfide	2.47	76	361704	5.278	ug/L 100
15) Methyl Acetate	2.62	43	66685	5.339	ug/L 98
16) Methylene chloride	2.69	84	123666	5.306	ug/L 94
17) Methyl tert-butyl Ether	3.00	73	308546	5.303	ug/L 98
18) trans-1,2-Dichloroethene	2.97	96	115862	5.339	ug/L 93
19) 1,1-Dichloroethane	3.44	63	242731	5.879	ug/L 99
21) 2-Butanone	4.29	43	395329	57.477	ug/L 100
22) cis-1,2-Dichloroethene	4.22	96	116980	5.209	ug/L 87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	53293	5.518	ug/L	93
25) Chloroform	4.67	83	227788	5.948	ug/L	99
27) 1,2-Dichloroethane	5.40	62	149750	5.950	ug/L	100
29) 1,1,1-Trichloroethane	4.90	97	188936	5.581	ug/L	99
30) Cyclohexane	4.99	56	188319	4.621	ug/L	100
31) Carbon tetrachloride	5.13	117	160593	5.514	ug/L	97
33) Benzene	5.38	78	479069	5.239	ug/L	100
34) Trichloroethene	6.18	95	121931	5.059	ug/L	97
35) Methylcyclohexane	6.41	83	162503	4.557	ug/L	94
37) 1,2-Dichloropropane	6.43	63	132592	5.410	ug/L	100
38) Bromodichloromethane	6.75	83	161167	5.620	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	166637	4.892	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	882247	52.609	ug/L	96
42) Toluene	7.63	91	495718	5.400	ug/L	97
44) trans-1,3-Dichloropropene	7.88	75	135473	5.141	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	88109	5.276	ug/L	93
47) Tetrachloroethene	8.22	164	86389	5.130	ug/L	96
48) 2-Hexanone	8.36	43	680536	57.853	ug/L	95
49) Dibromochloromethane	8.47	129	100064	5.347	ug/L	93
50) 1,2-Dibromoethane	8.58	107	82200	5.127	ug/L	96
51) Chlorobenzene	9.12	112	289877	5.206	ug/L	97
52) Ethylbenzene	9.25	91	469791	4.807	ug/L	98
53) m,p-Xylene	9.37	106	173447	4.984	ug/L	96
54) o-Xylene	9.78	106	168063	4.891	ug/L	99
55) Styrene	9.79	104	298792	5.257	ug/L	98
56) Isopropylbenzene	10.16	105	442275	4.872	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	111528	5.248	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	84100	5.447	ug/L	97
61) Bromoform	9.95	173	53577	5.565	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	190407	5.255	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	192913	5.112	ug/L	94
65) 1,2-Dichlorobenzene	11.87	146	191455	5.329	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	16038	5.337	ug/L	90
67) 1,3,5-Trichlorobenzene	12.88	180	144616	5.254	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	104414	4.815	ug/L	99
69) Naphthalene	13.74	128	177429	4.186	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	107791	5.037	ug/L	99

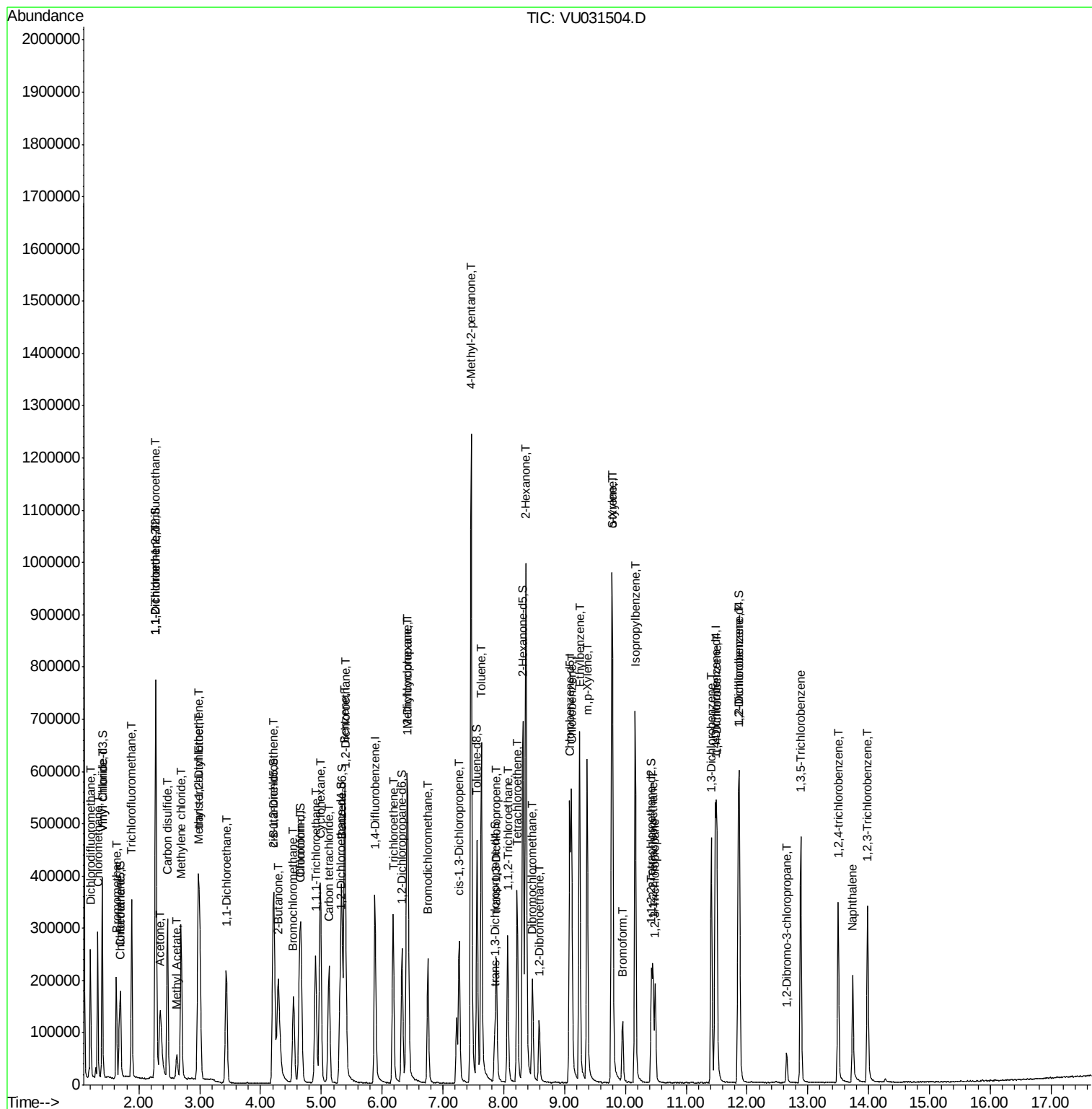
(#) = qualifier out of range (m) = manual integration (+) = signals summed

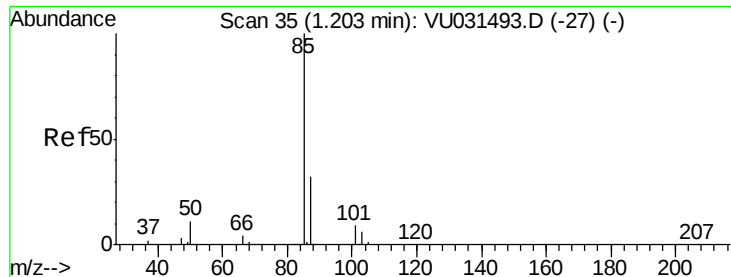
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#2

Dichlorodifluoromethane

Concen: 5.727 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

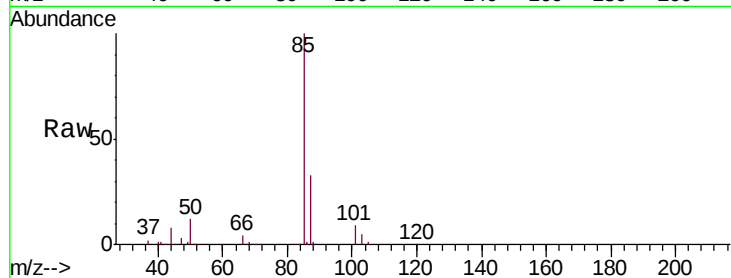
VSTD00522

Tgt Ion: 85 Resp: 145751

Ion Ratio Lower Upper

85 100

87 33.1 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU031493.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031493.D (-27) (-)

1.20

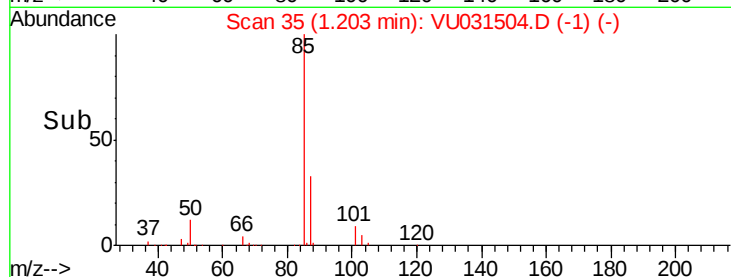
150000

100000

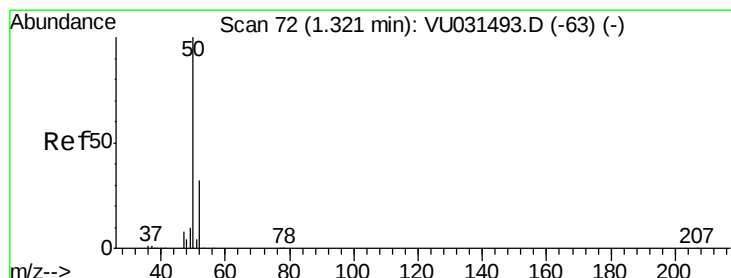
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 5.662 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU031504.D

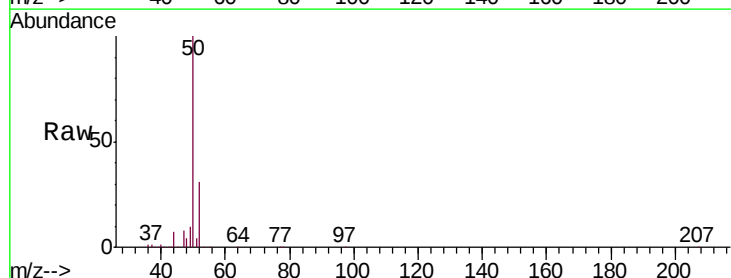
Acq: 25 Apr 2019 16:30

Tgt Ion: 50 Resp: 177520

Ion Ratio Lower Upper

50 100

52 31.2 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU031493.D (-63) (-)

Ion 52.05 (51.75 to 52.75): VU031493.D (-63) (-)

1.32

200000

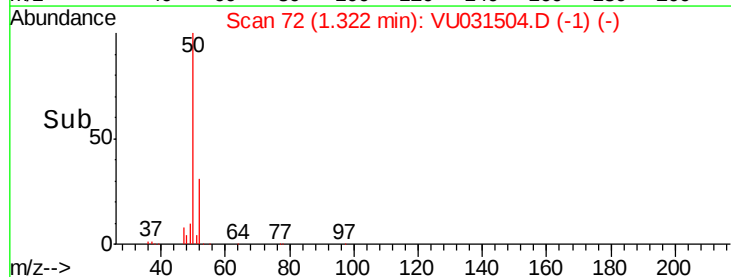
150000

100000

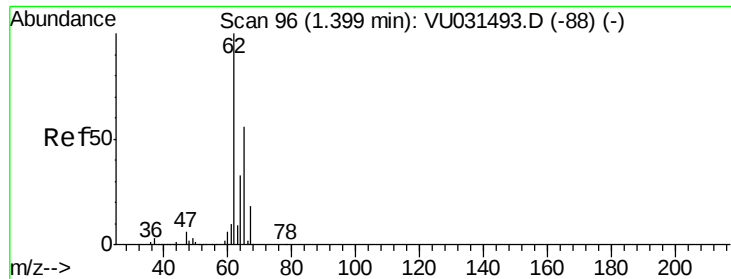
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 5.544 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

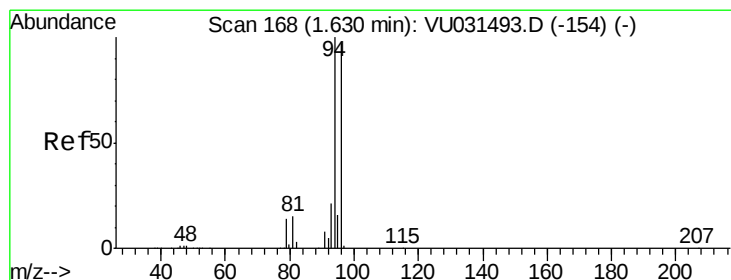
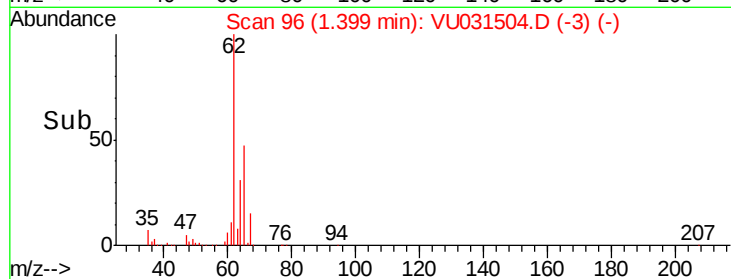
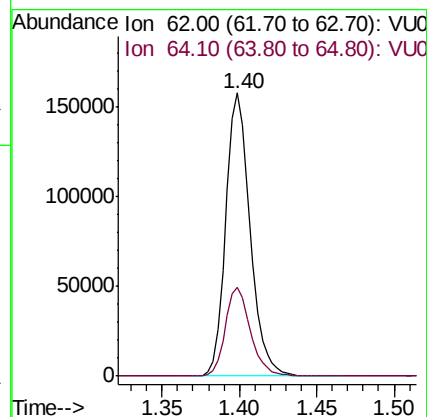
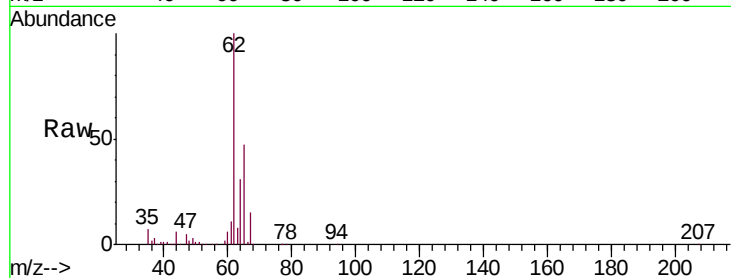
VSTD00522

Tgt Ion: 62 Resp: 171592

Ion Ratio Lower Upper

62 100

64 31.5 23.9 44.5



#6

Bromomethane

Concen: 5.226 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU031504.D

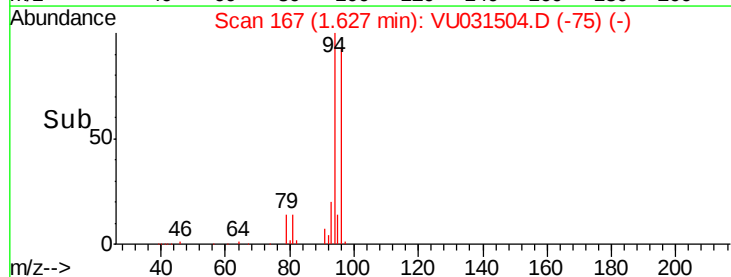
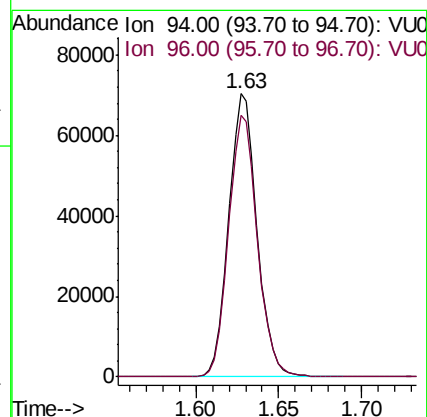
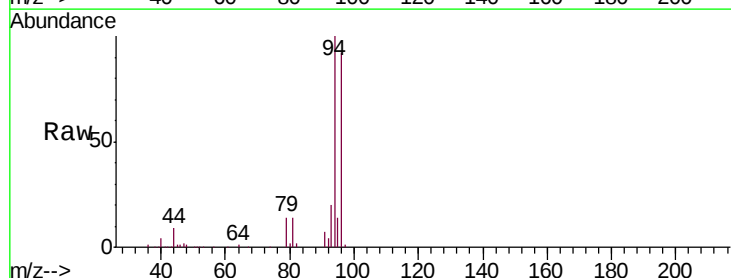
Acq: 25 Apr 2019 16:30

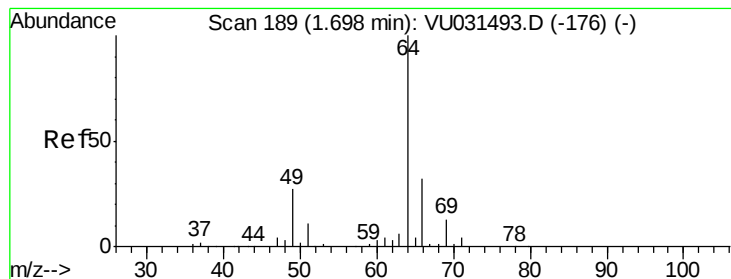
Tgt Ion: 94 Resp: 83055

Ion Ratio Lower Upper

94 100

96 92.5 66.3 123.1





#8

Chloroethane

Concen: 5.411 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

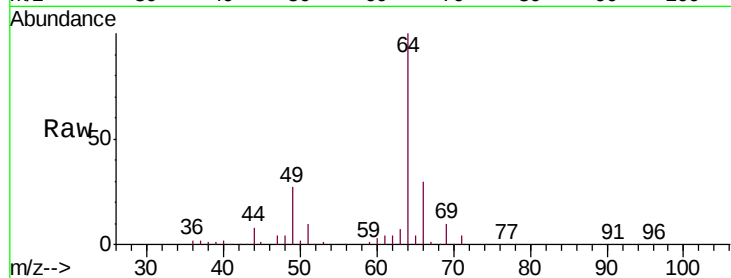
VSTD00522

Tgt Ion: 64 Resp: 94792

Ion Ratio Lower Upper

64 100

66 30.3 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VU031493.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU031493.D (-176) (-)

1.70

80000

60000

40000

20000

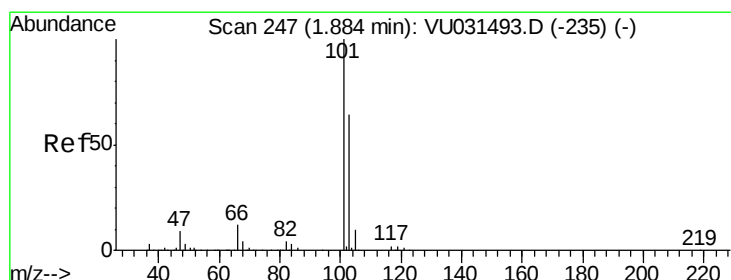
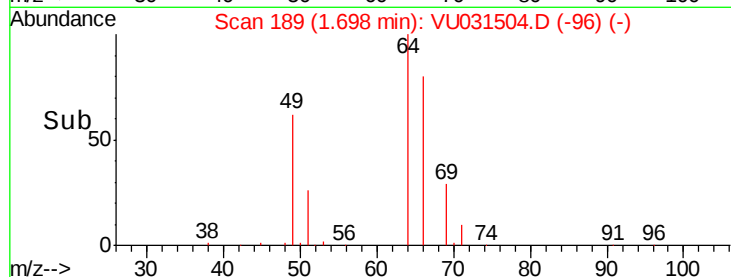
0

1.65

1.70

1.75

Time-->



#9

Trichlorofluoromethane

Concen: 5.746 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031504.D

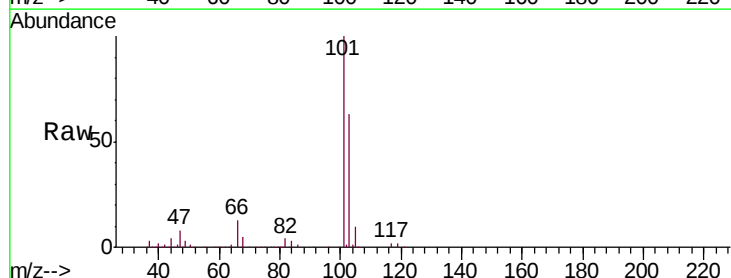
Acq: 25 Apr 2019 16:30

Tgt Ion: 101 Resp: 204818

Ion Ratio Lower Upper

101 100

103 64.3 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): VU031493.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU031493.D (-235) (-)

1.88

150000

100000

50000

0

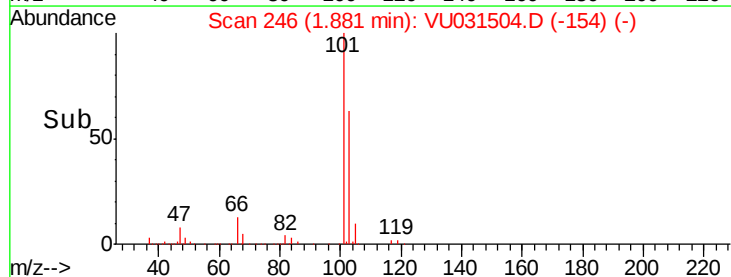
1.80

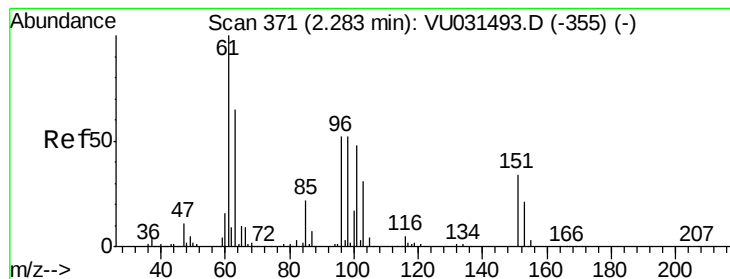
1.85

1.90

1.95

Time-->





#10

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

Concen: 5.447 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031504.D

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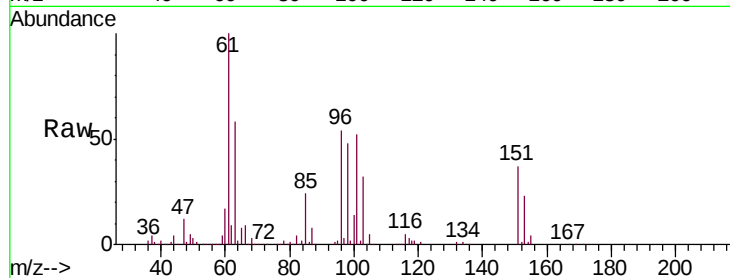
Tgt Ion: 101 Resp: 112282

Ion Ratio Lower Upper

101 100

85 46.0 35.8 53.6

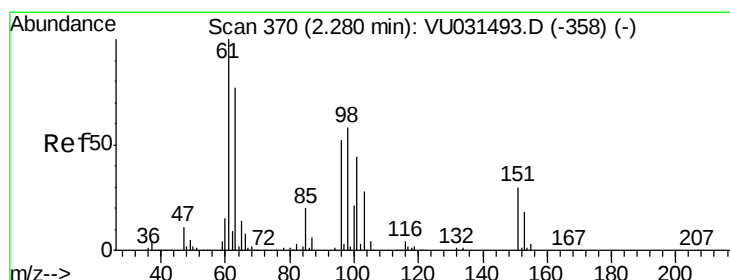
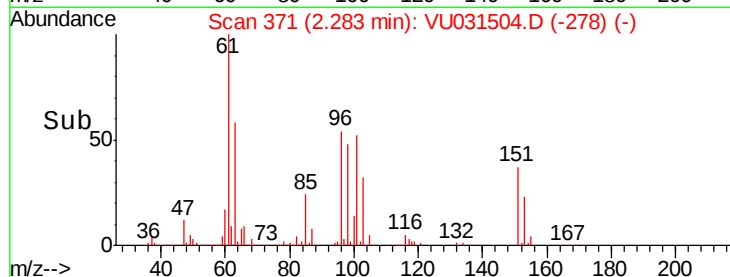
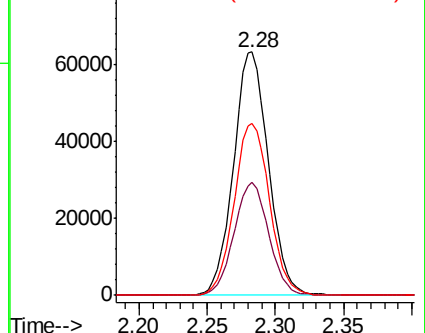
151 71.6 59.2 88.8



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: 5.166 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

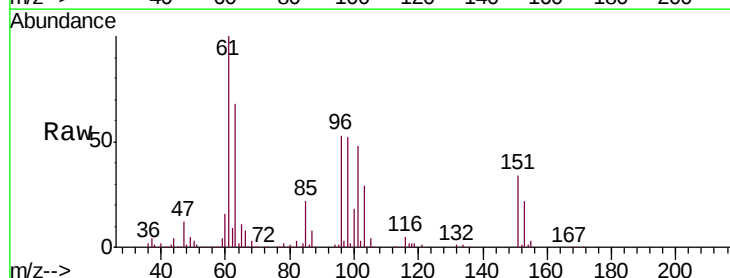
Tgt Ion: 96 Resp: 106480

Ion Ratio Lower Upper

96 100

61 188.8 131.3 243.8

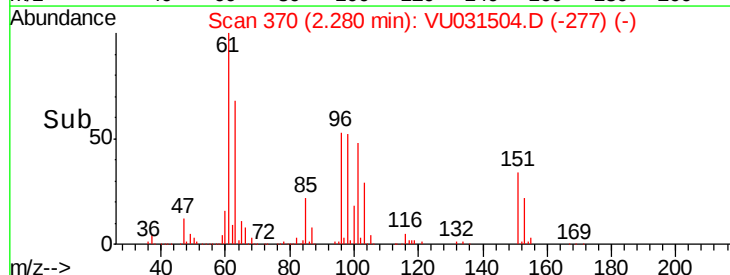
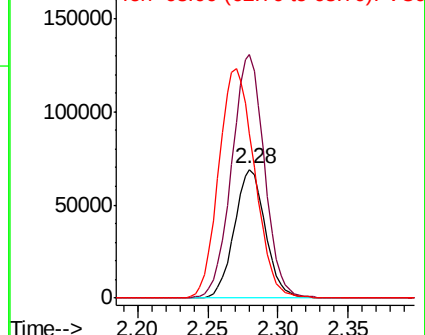
63 127.8 101.9 189.3

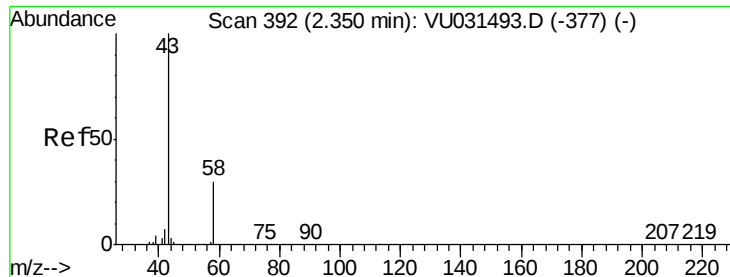


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 58.210 ug/L

RT: 2.35 min Scan# 392

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

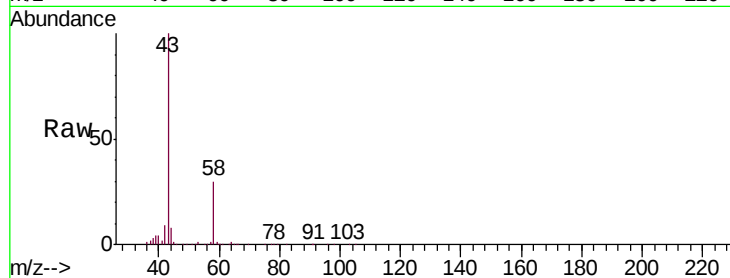
VSTD00522

Tgt Ion: 43 Resp: 263323

Ion Ratio Lower Upper

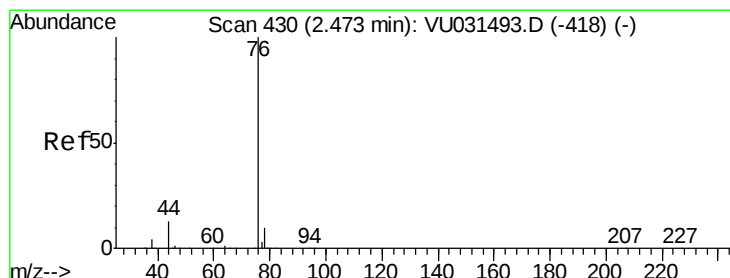
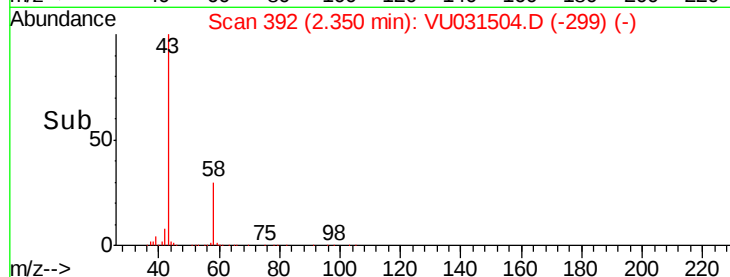
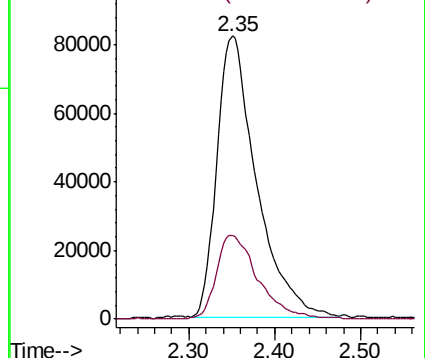
43 100

58 30.8 0.0 62.4



Abundance Ion 43.05 (42.75 to 43.75): VU031493.D (-377) (-)

Ion 58.05 (57.75 to 58.75): VU031493.D (-377) (-)



#14

Carbon disulfide

Concen: 5.278 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU031504.D

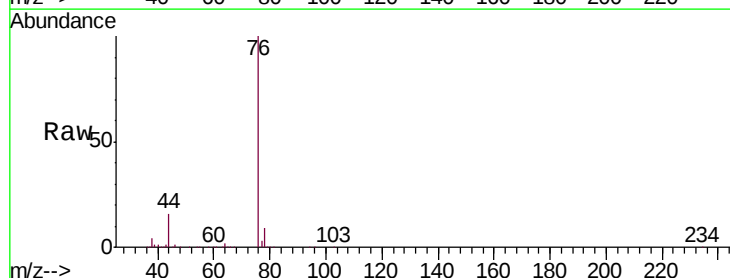
Acq: 25 Apr 2019 16:30

Tgt Ion: 76 Resp: 361704

Ion Ratio Lower Upper

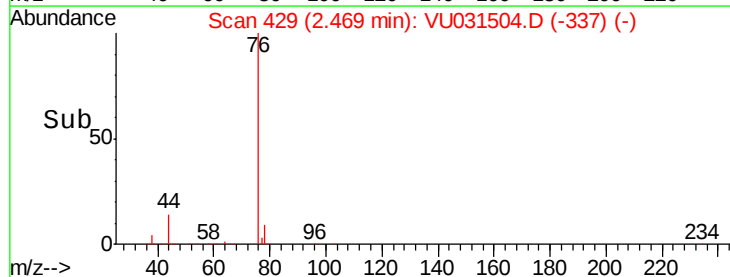
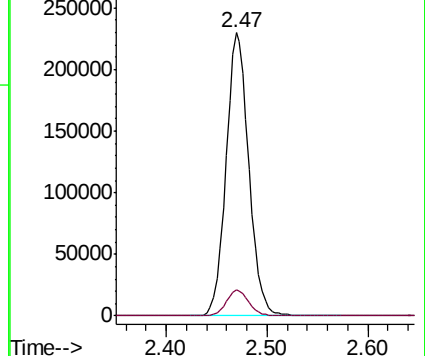
76 100

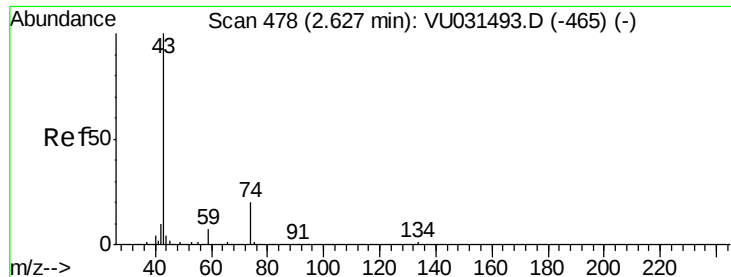
78 9.2 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VU031493.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU031493.D (-418) (-)

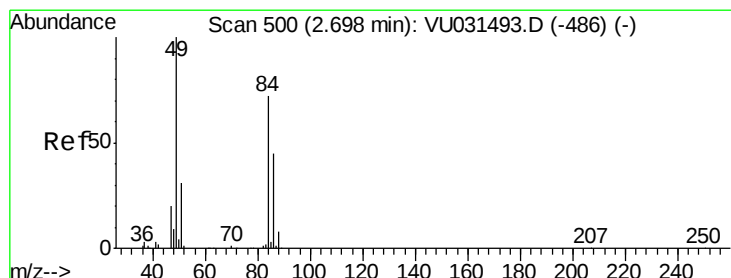
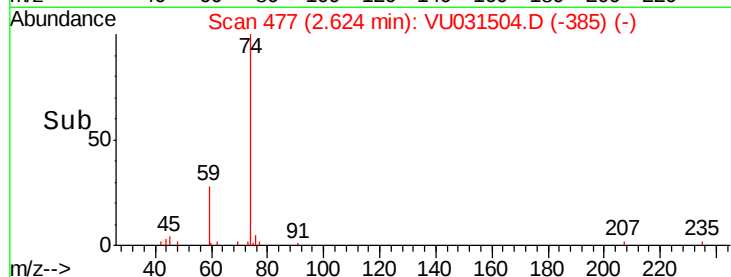
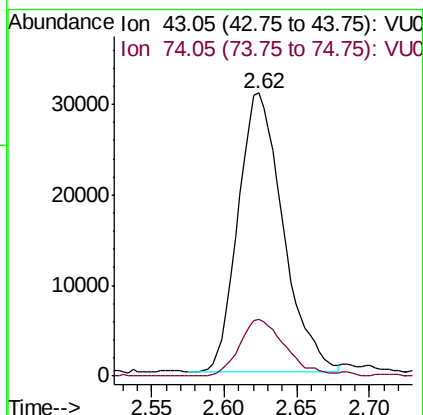
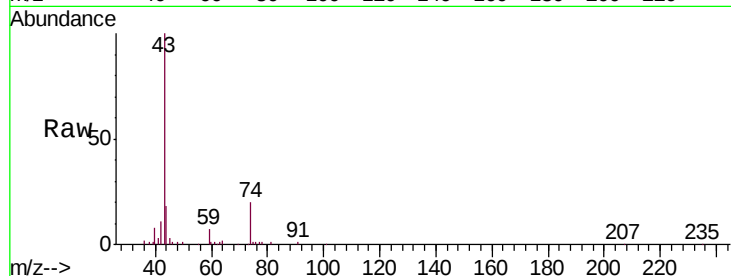




#15
Methyl Acetate
Concen: 5.339 ug/L
RT: 2.62 min Scan# 477
Delta R.T. -0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

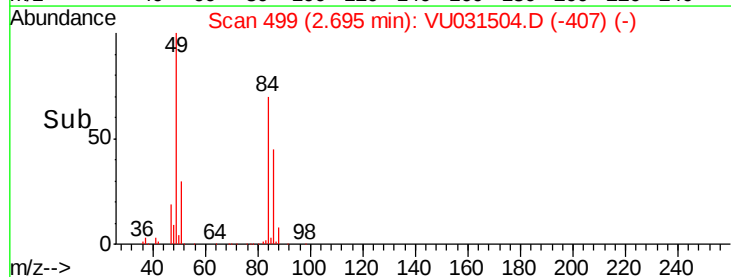
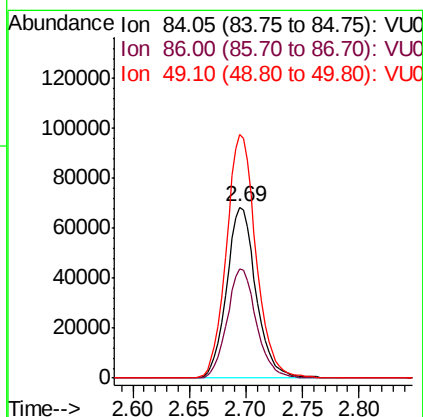
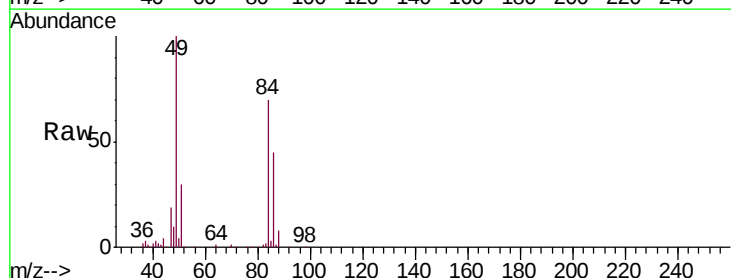
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

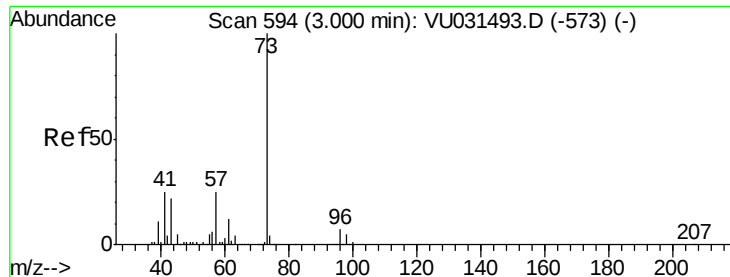
Tgt Ion: 43 Resp: 66685
Ion Ratio Lower Upper
43 100
74 20.7 17.1 25.7



#16
Methylene chloride
Concen: 5.306 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

Tgt Ion: 84 Resp: 123666
Ion Ratio Lower Upper
84 100
86 64.1 44.9 83.5
49 142.3 92.9 172.5

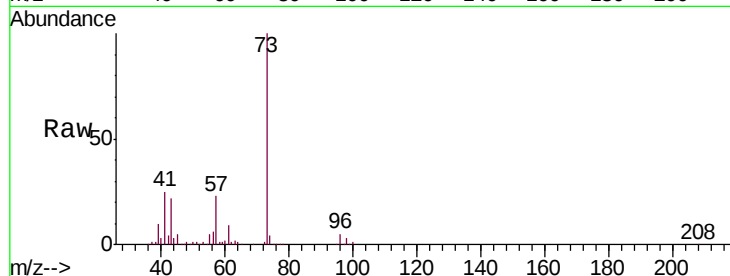




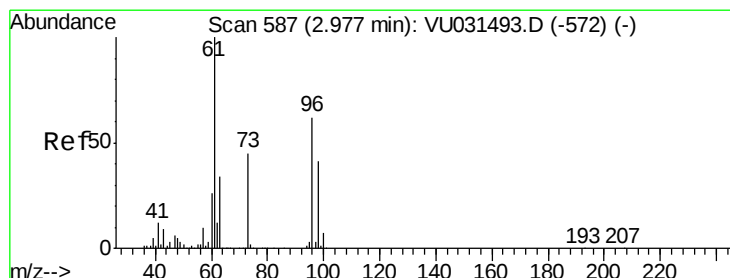
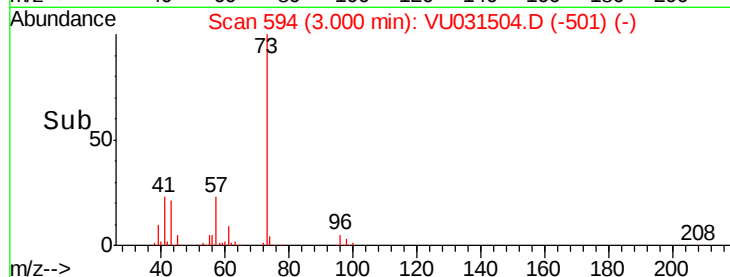
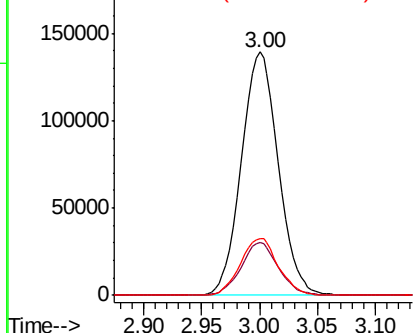
#17
Methyl tert-butyl Ether
Concen: 5.303 ug/L
RT: 3.00 min Scan# 594
Delta R.T. 0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tgt Ion: 73 Resp: 308546
Ion Ratio Lower Upper
73 100
43 21.4 15.4 23.0
57 24.2 19.1 28.7

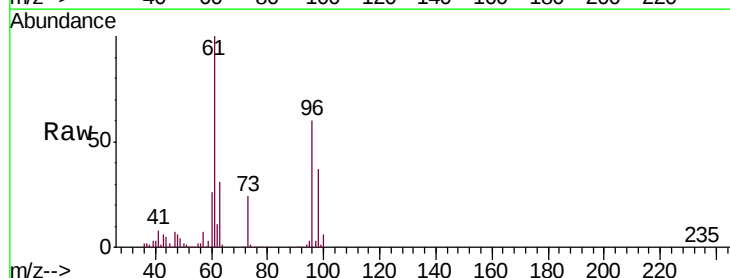


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

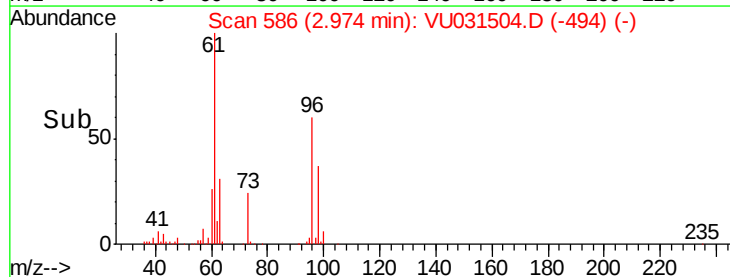
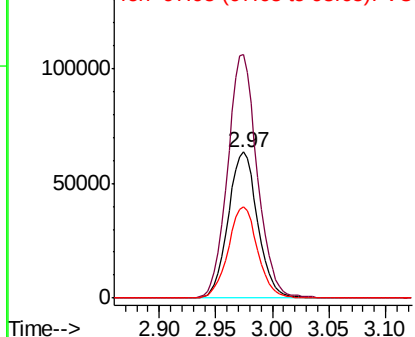


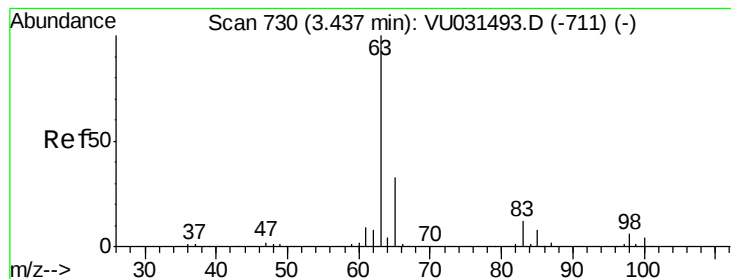
#18
trans-1,2-Dichloroethene
Concen: 5.339 ug/L
RT: 2.97 min Scan# 586
Delta R.T. -0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

Tgt Ion: 96 Resp: 115862
Ion Ratio Lower Upper
96 100
61 166.9 108.4 201.2
98 62.2 45.1 83.9



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 5.879 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

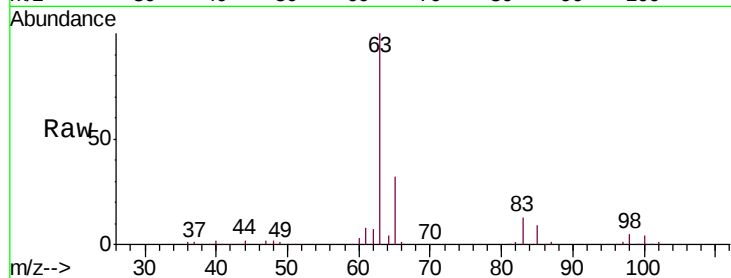
Tgt Ion: 63 Resp: 242731

Ion Ratio Lower Upper

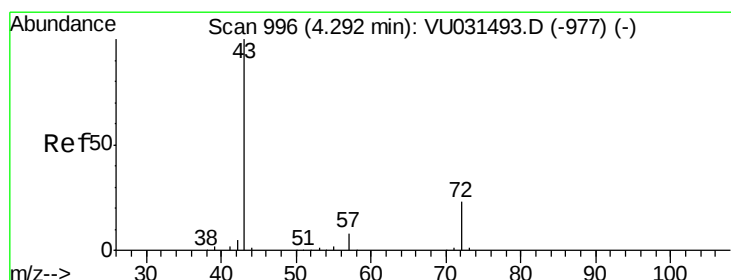
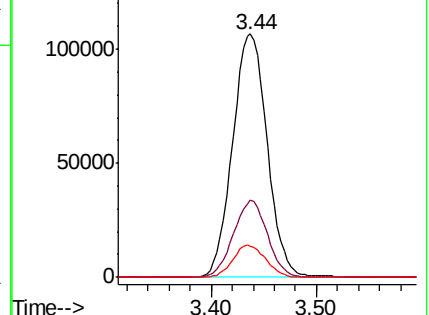
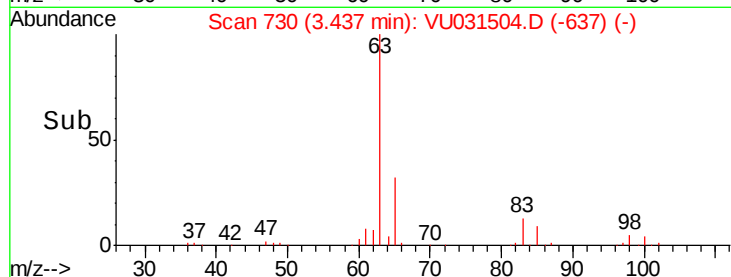
63 100

65 31.6 22.3 41.5

83 12.9 8.5 15.9



Abundance Ion 63.10 (62.80 to 63.80): VU031504.D (-637) (-)



#21

2-Butanone

Concen: 57.477 ug/L

RT: 4.29 min Scan# 996

Delta R.T. 0.00 min

Lab File: VU031504.D

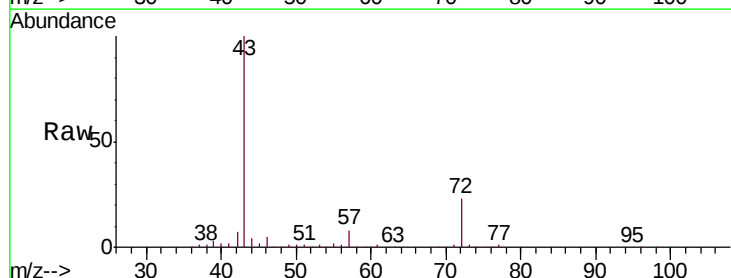
Acq: 25 Apr 2019 16:30

Tgt Ion: 43 Resp: 395329

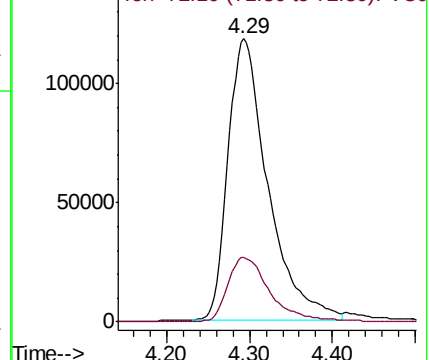
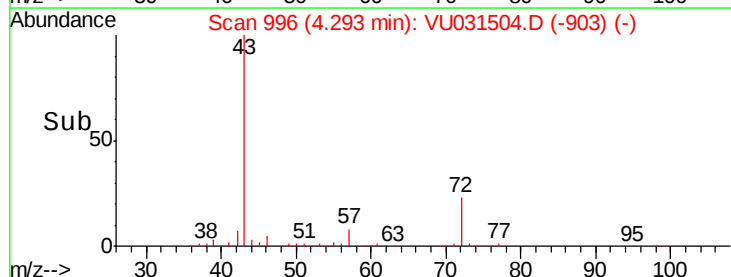
Ion Ratio Lower Upper

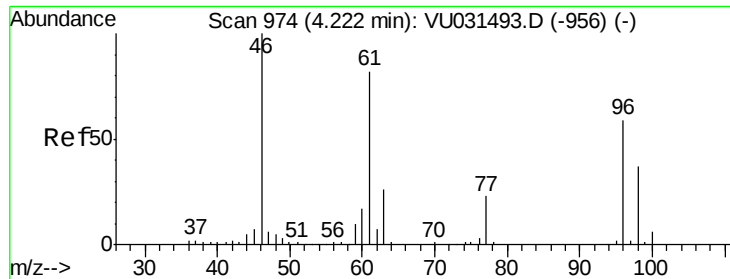
43 100

72 23.2 11.7 35.0



Abundance Ion 43.05 (42.75 to 43.75): VU031504.D (-903) (-)



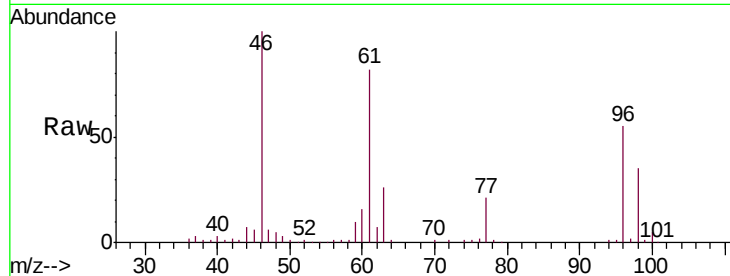


#22

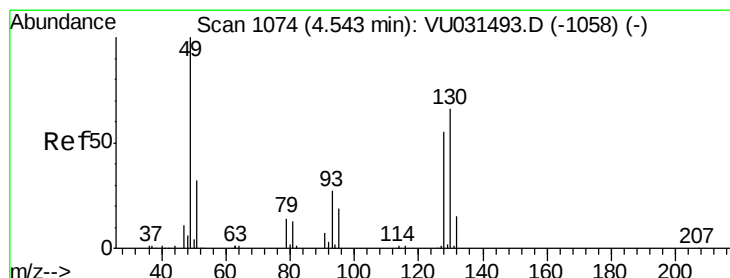
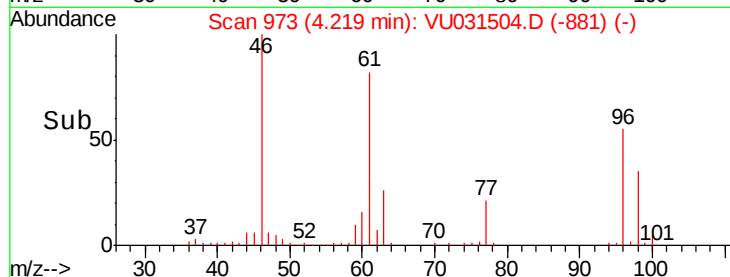
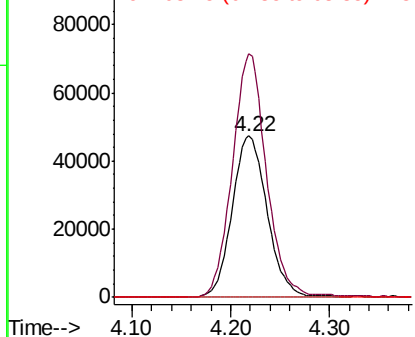
cis-1,2-Dichloroethene
Concen: 5.209 ug/L
RT: 4.22 min Scan# 973
Delta R.T. -0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tgt Ion: 96 Resp: 116980
Ion Ratio Lower Upper
96 100
61 151.1 94.8 176.2
68 0.0 0.0 0.0



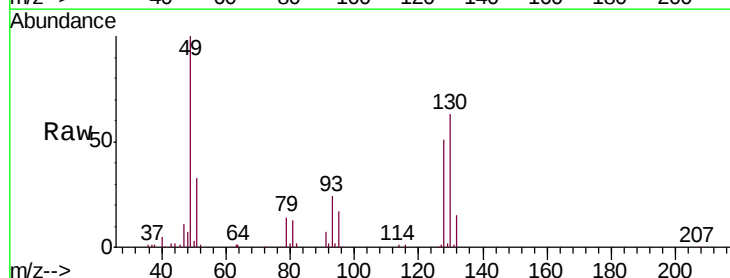
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



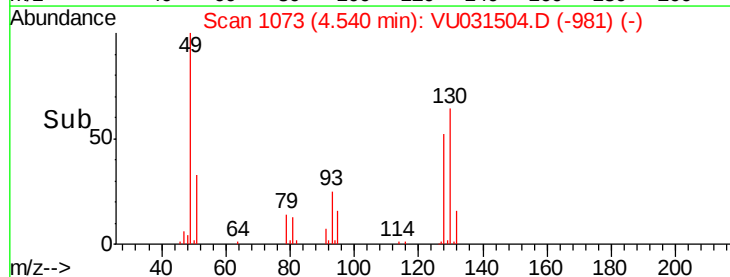
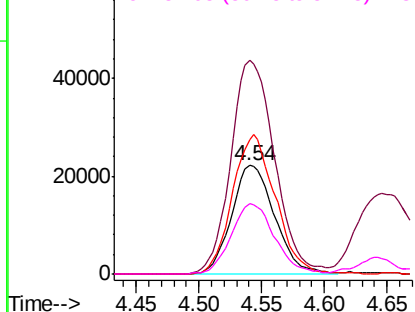
#23

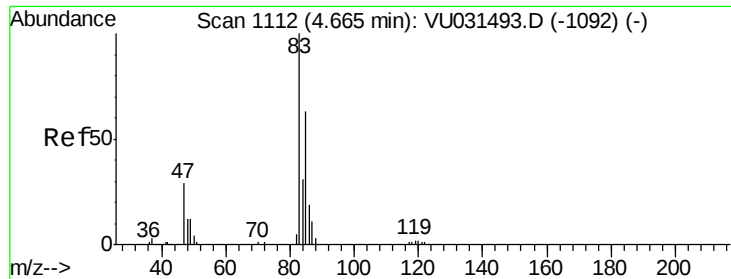
Bromochloromethane
Concen: 5.518 ug/L
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

Tgt Ion: 128 Resp: 53293
Ion Ratio Lower Upper
128 100
49 196.9 128.9 239.3
130 123.9 91.2 169.4
51 64.7 47.4 71.0



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0





#25

Chloroform

Concen: 5.948 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

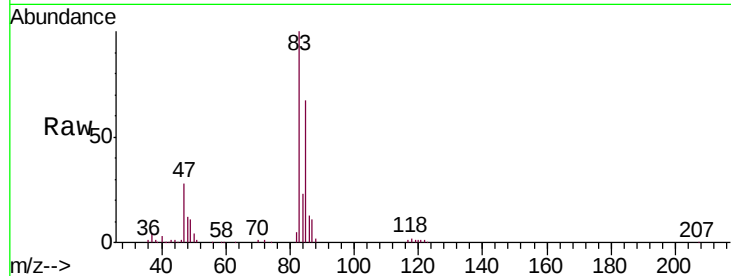
VSTD00522

Tgt Ion: 83 Resp: 227788

Ion Ratio Lower Upper

83 100

85 66.8 46.0 85.4



Abundance Ion 83.05 (82.75 to 83.75): VU031493.D (-1092) (-)

Ion 85.00 (84.70 to 85.70): VU031493.D (-1092) (-)

4.67

100000

80000

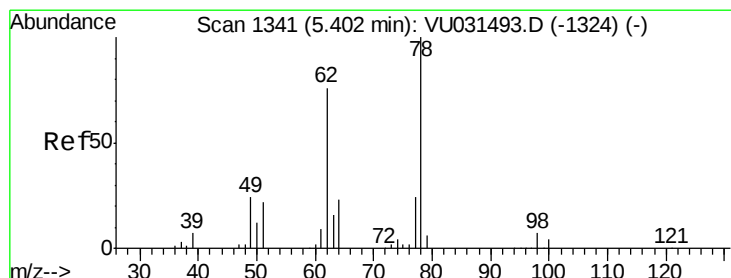
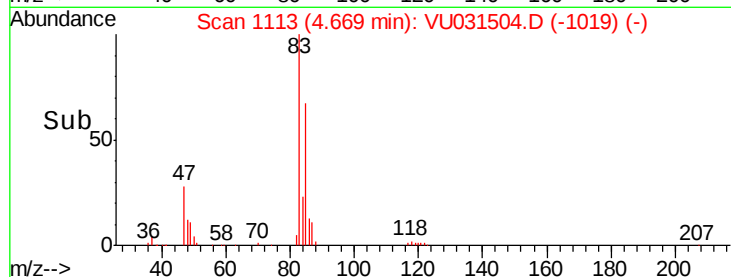
60000

40000

20000

0

Time-->



#27

1,2-Dichloroethane

Concen: 5.950 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU031504.D

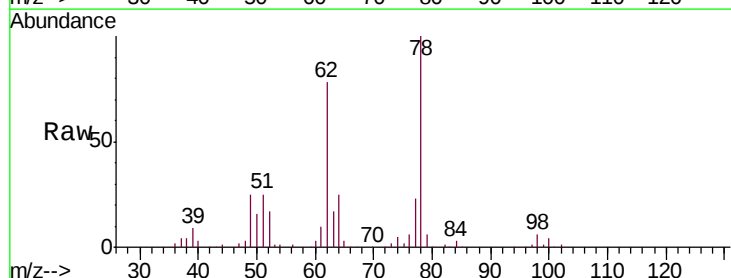
Acq: 25 Apr 2019 16:30

Tgt Ion: 62 Resp: 149750

Ion Ratio Lower Upper

62 100

98 8.3 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU031493.D (-1324) (-)

Ion 98.05 (97.75 to 98.75): VU031493.D (-1324) (-)

5.40

80000

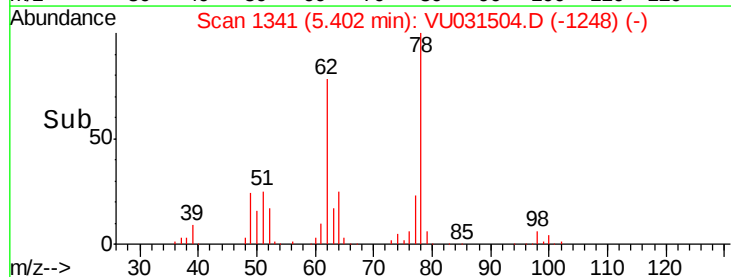
60000

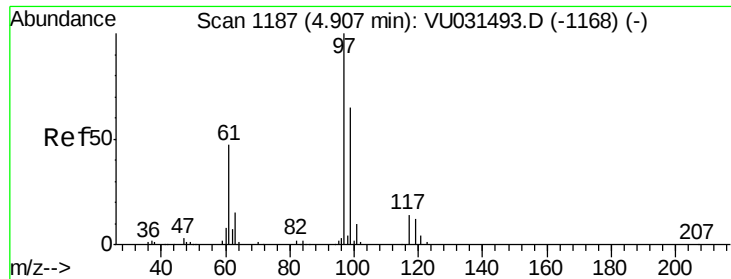
40000

20000

0

Time-->

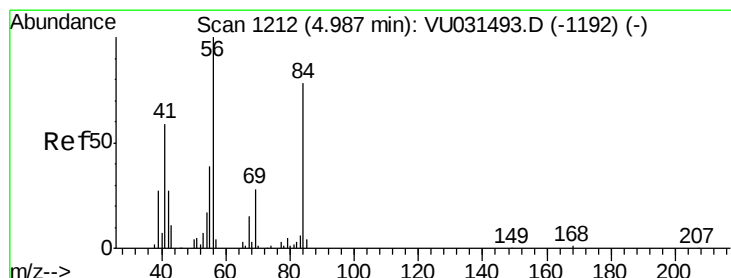
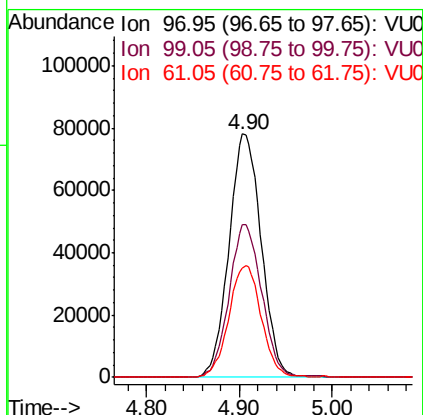
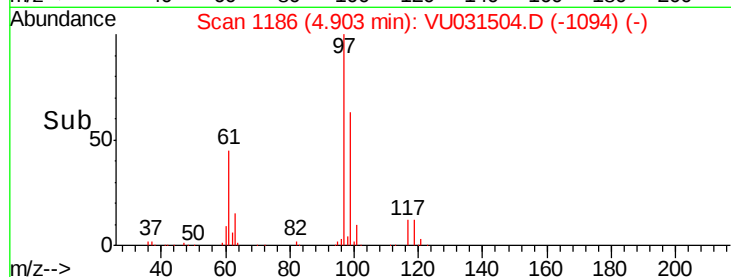
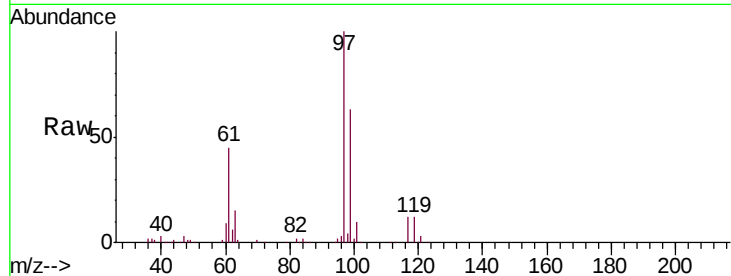




#29
 1,1,1-Trichloroethane
 Concen: 5.581 ug/L
 RT: 4.90 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

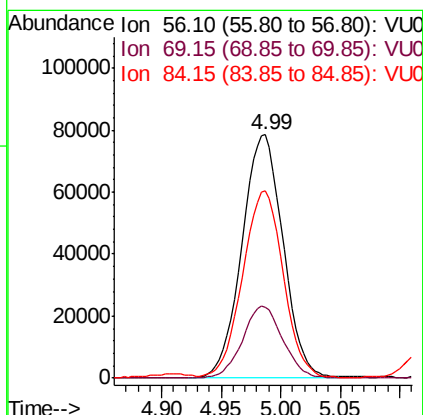
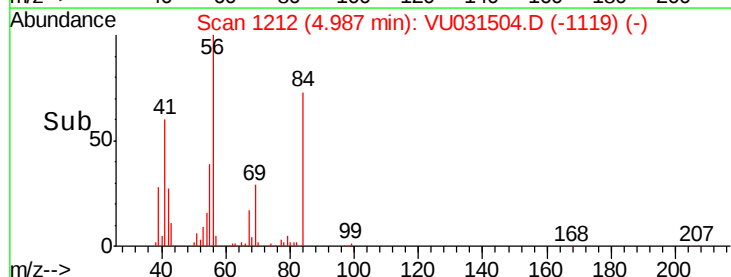
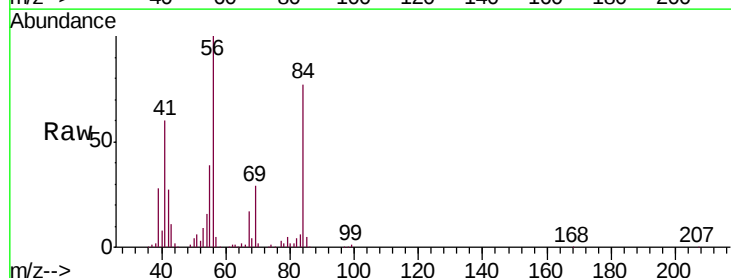
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

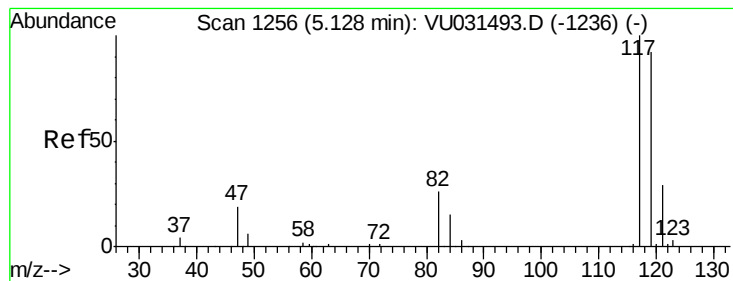
Tgt Ion: 97 Resp: 188936
 Ion Ratio Lower Upper
 97 100
 99 63.3 50.2 75.2
 61 46.1 37.0 55.4



#30
 Cyclohexane
 Concen: 4.621 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

Tgt Ion: 56 Resp: 188319
 Ion Ratio Lower Upper
 56 100
 69 28.8 23.3 34.9
 84 76.2 61.0 91.6





#31

Carbon tetrachloride

Concen: 5.514 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

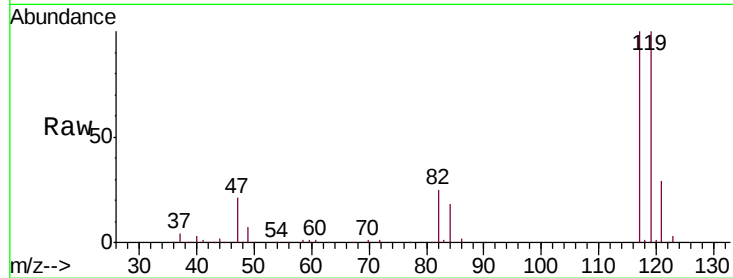
VSTD00522

Tgt Ion:117 Resp: 160593

Ion Ratio Lower Upper

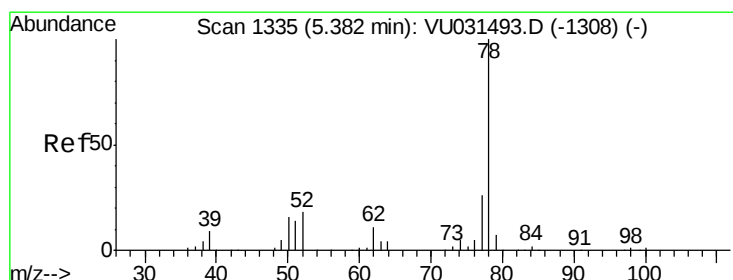
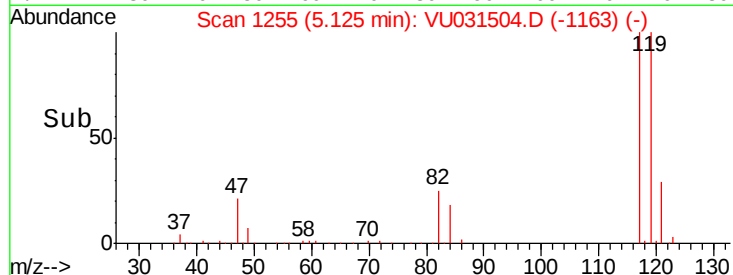
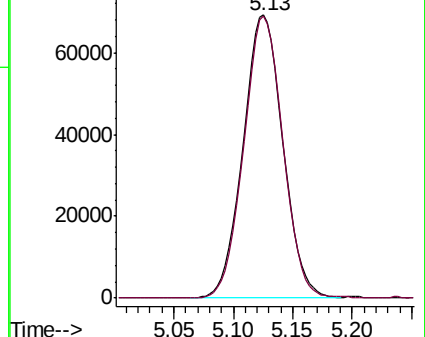
117 100

119 97.7 76.0 114.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.239 ug/L

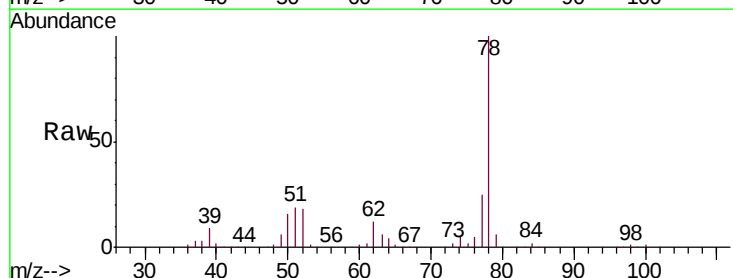
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

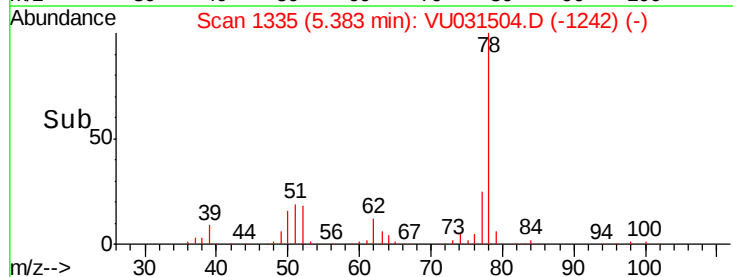
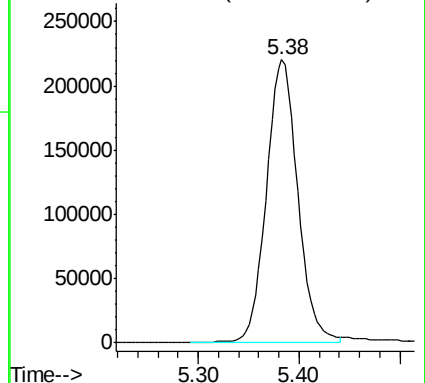
Lab File: VU031504.D

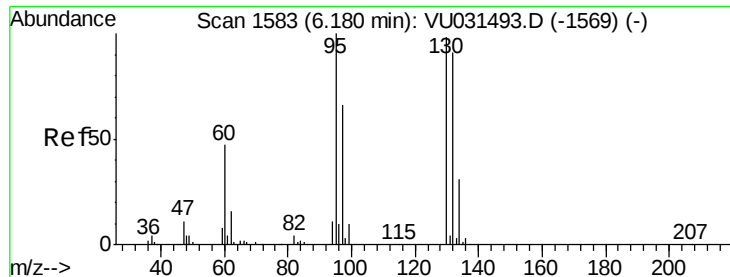
Acq: 25 Apr 2019 16:30

Tgt Ion: 78 Resp: 479069



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.059 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

Tgt Ion: 95 Resp: 121931

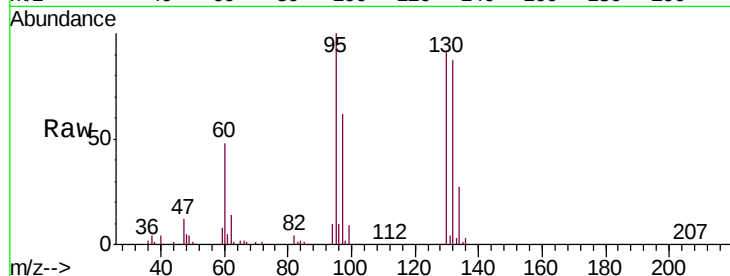
Ion Ratio Lower Upper

95 100

97 62.3 44.3 82.3

132 86.9 59.9 111.3

130 90.6 67.1 124.5

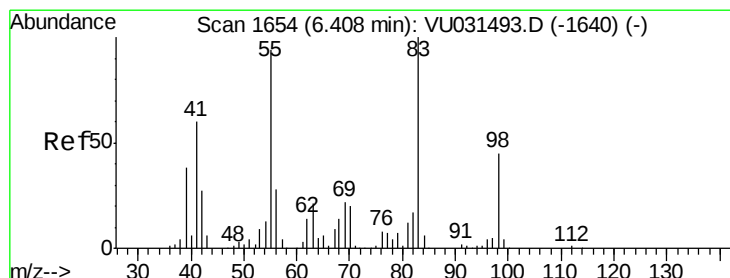
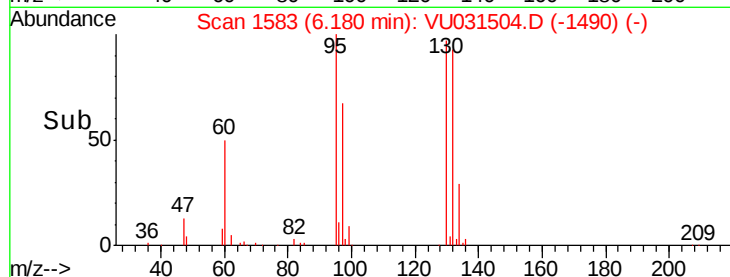
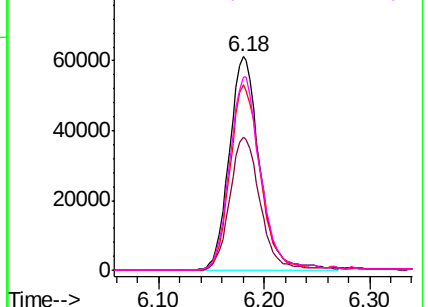


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.557 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

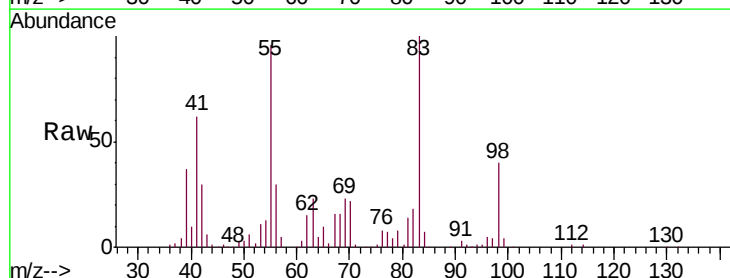
Tgt Ion: 83 Resp: 162503

Ion Ratio Lower Upper

83 100

55 97.1 71.1 106.7

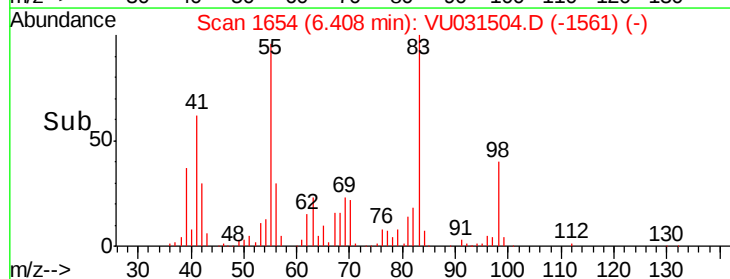
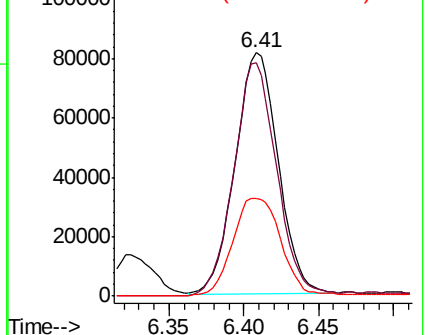
98 46.1 36.6 54.8

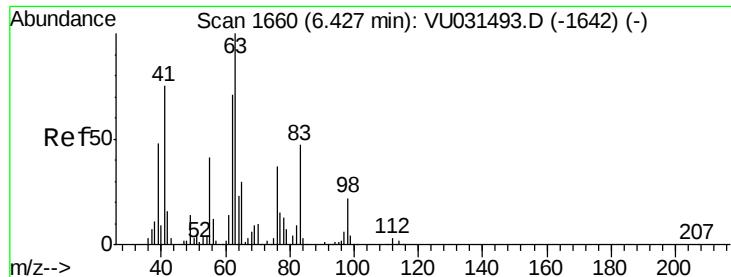


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.410 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

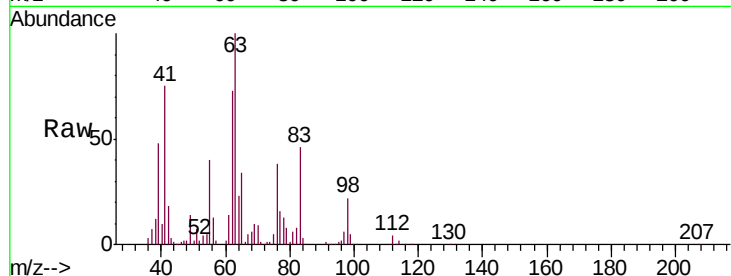
VSTD00522

Tgt Ion: 63 Resp: 132592

Ion Ratio Lower Upper

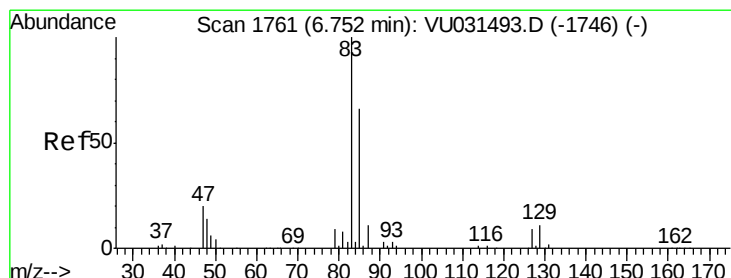
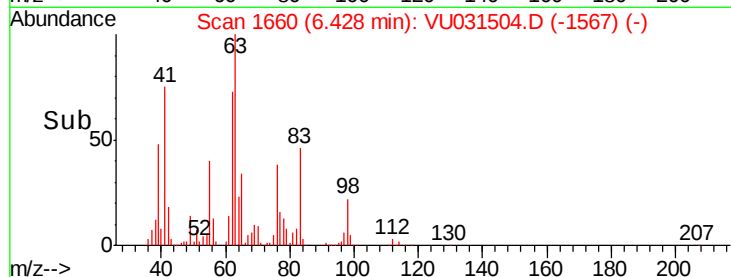
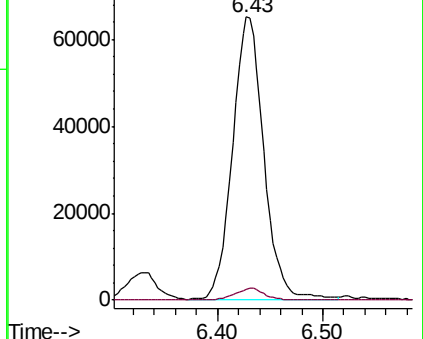
63 100

112 3.9 3.0 4.6



Abundance Ion 63.10 (62.80 to 63.80): VU031493.D (-1642) (-)

Ion 112.10 (111.80 to 112.80): VU031493.D (-1642) (-)



#38

Bromodichloromethane

Concen: 5.620 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

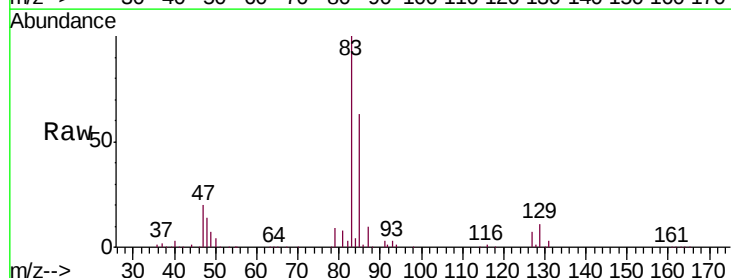
Tgt Ion: 83 Resp: 161167

Ion Ratio Lower Upper

83 100

85 63.3 44.8 83.2

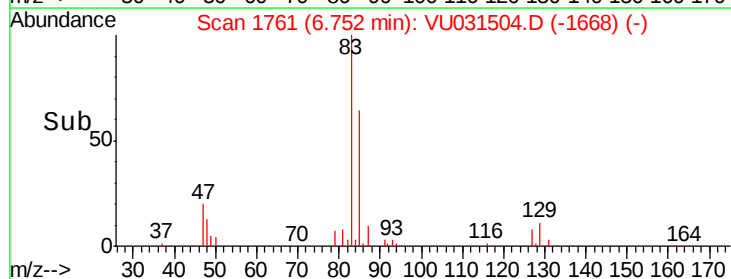
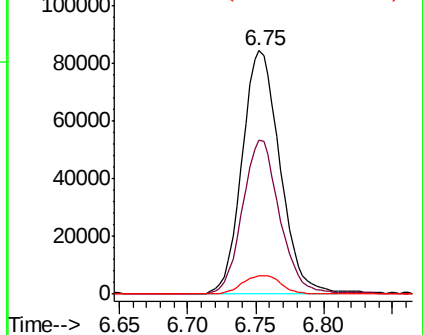
127 7.4 6.5 9.7

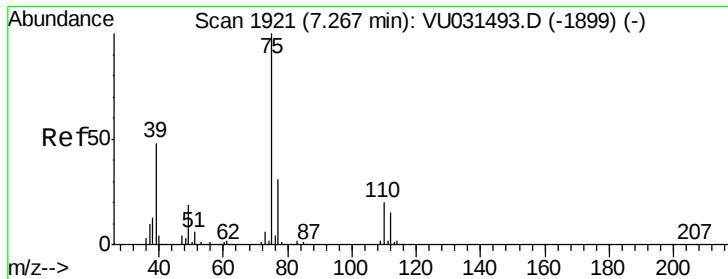


Abundance Ion 82.95 (82.65 to 83.65): VU031493.D (-1746) (-)

Ion 85.00 (84.70 to 85.70): VU031493.D (-1746) (-)

Ion 126.90 (126.60 to 127.60): VU031493.D (-1746) (-)

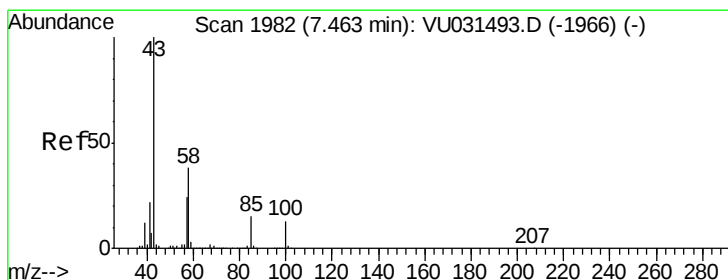
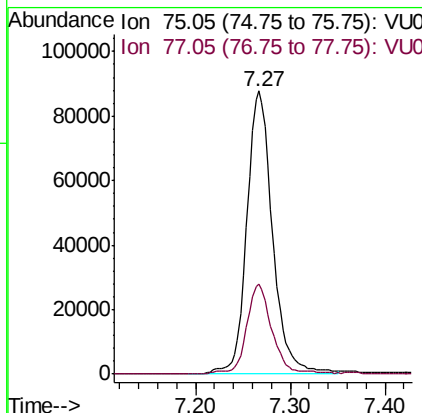
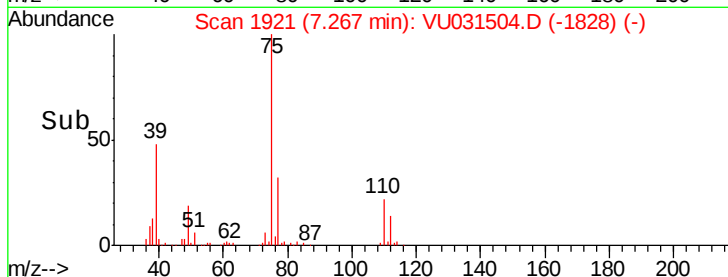
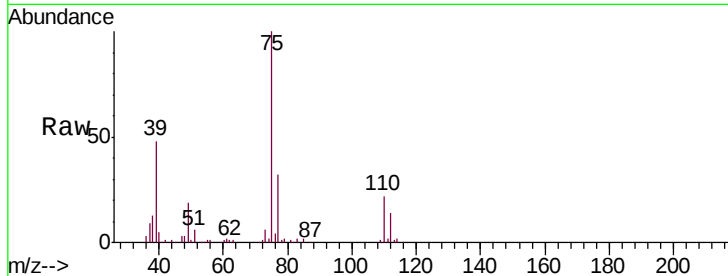




#39
 cis-1,3-Dichloropropene
 Concen: 4.892 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

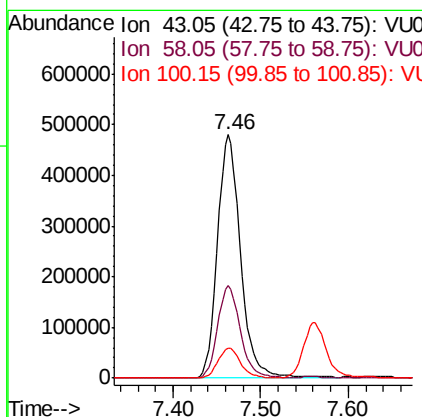
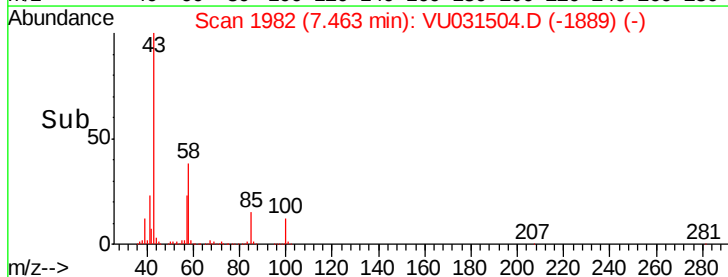
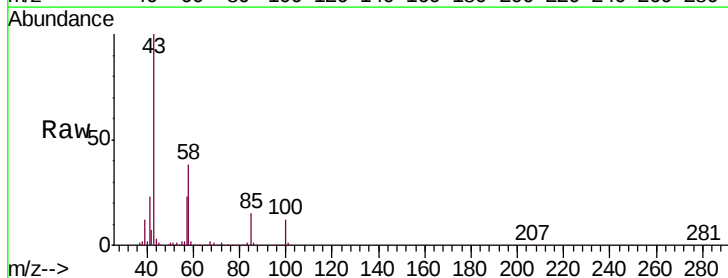
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

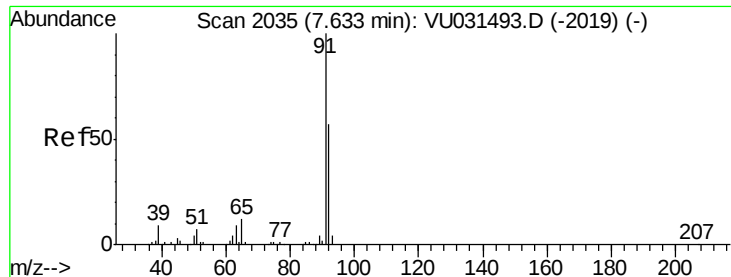
Tgt Ion: 75 Resp: 166637
 Ion Ratio Lower Upper
 75 100
 77 31.8 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 52.609 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

Tgt Ion: 43 Resp: 882247
 Ion Ratio Lower Upper
 43 100
 58 37.1 31.6 47.4
 100 12.2 10.6 15.8





#42

Toluene

Concen: 5.400 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

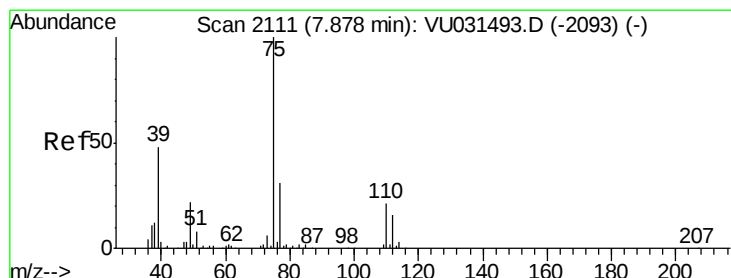
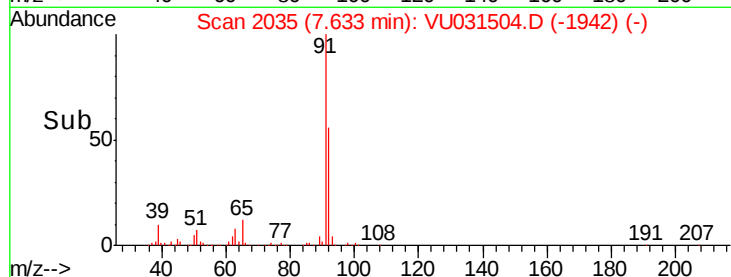
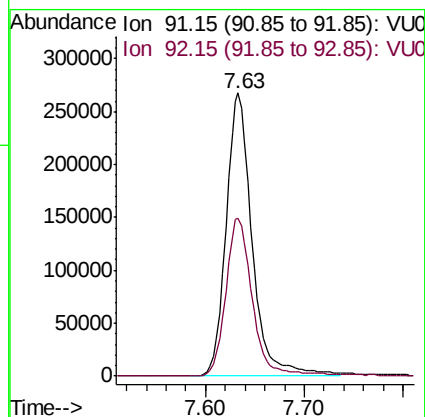
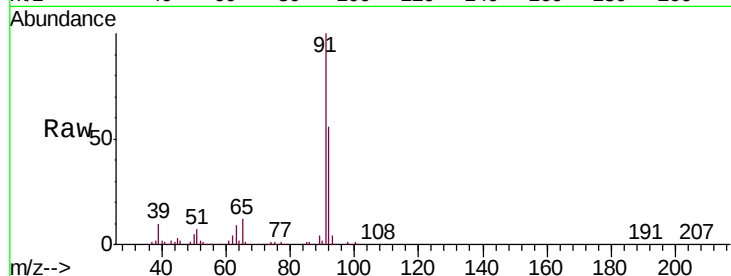
VSTD00522

Tgt Ion: 91 Resp: 495718

Ion Ratio Lower Upper

91 100

92 56.0 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 5.141 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031504.D

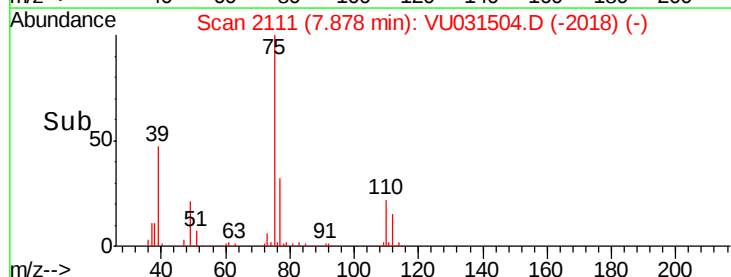
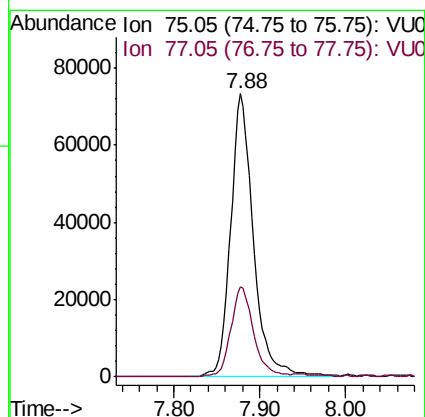
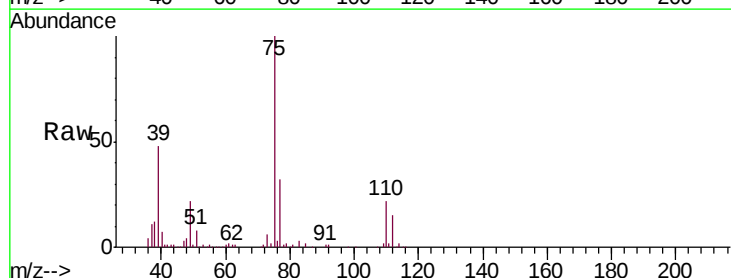
Acq: 25 Apr 2019 16:30

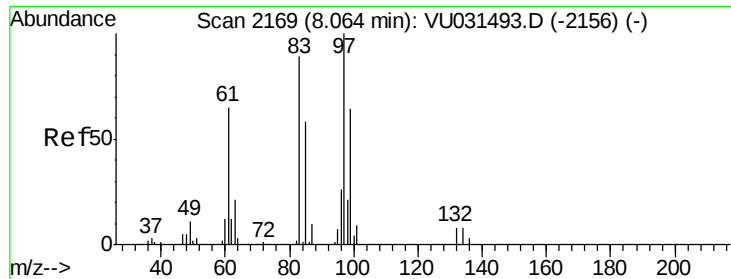
Tgt Ion: 75 Resp: 135473

Ion Ratio Lower Upper

75 100

77 31.8 22.5 41.7

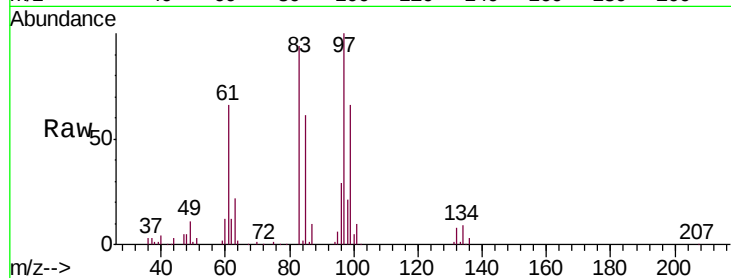




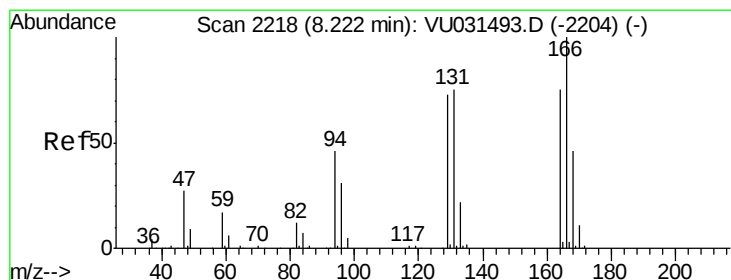
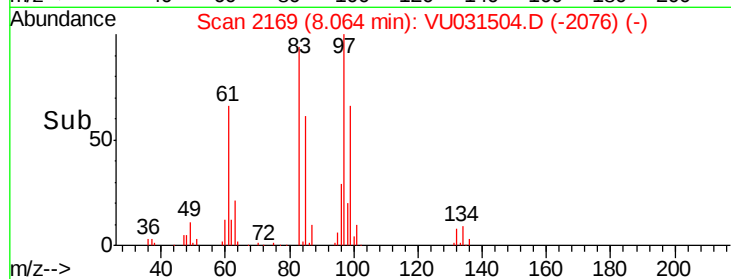
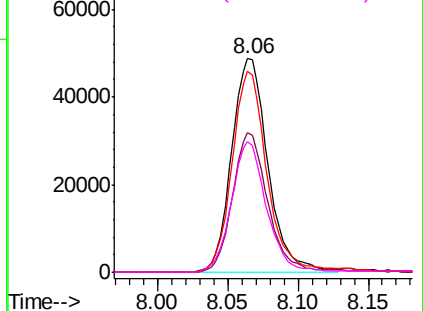
#45
 1,1,2-Trichloroethane
 Concen: 5.276 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tgt Ion:	97	Resp:	88109
Ion	Ratio	Lower	Upper
97	100		
99	65.6	41.2	76.6
83	93.9	62.2	115.4
85	61.0	39.2	72.8

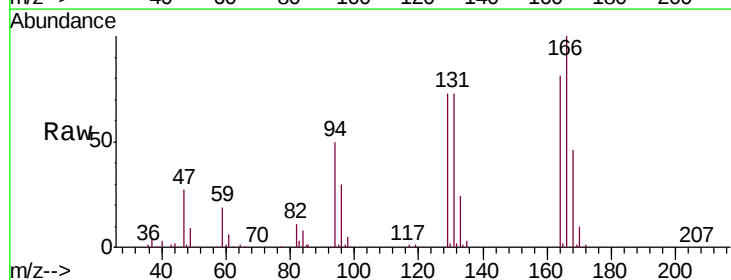


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

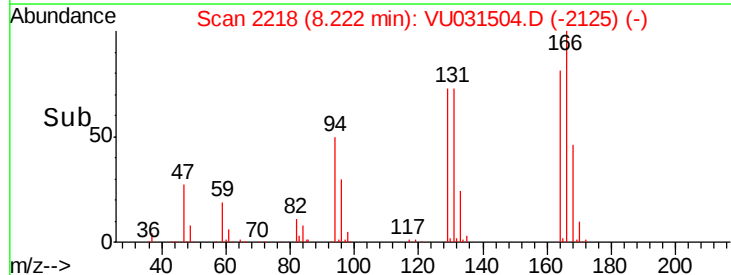
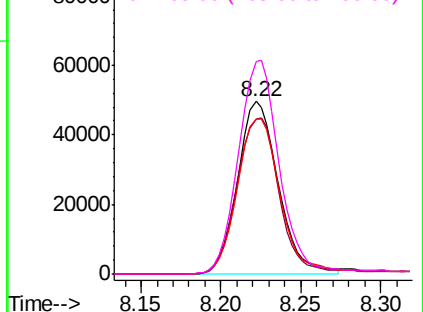


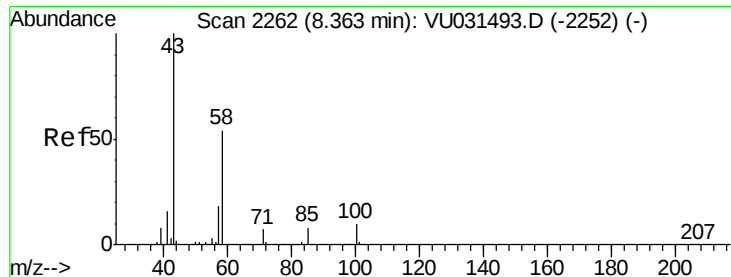
#47
 Tetrachloroethene
 Concen: 5.130 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

Tgt Ion:	164	Resp:	86389
Ion	Ratio	Lower	Upper
164	100		
129	89.5	67.5	125.3
131	89.9	64.0	119.0
166	122.9	88.5	164.4



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

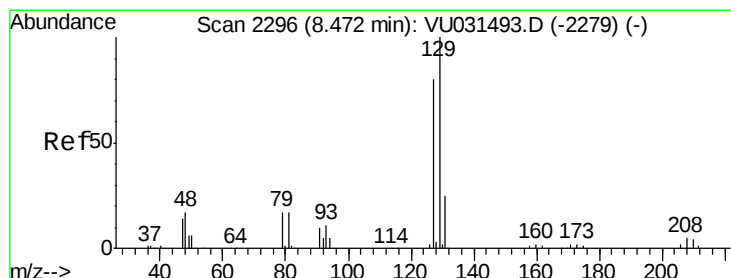
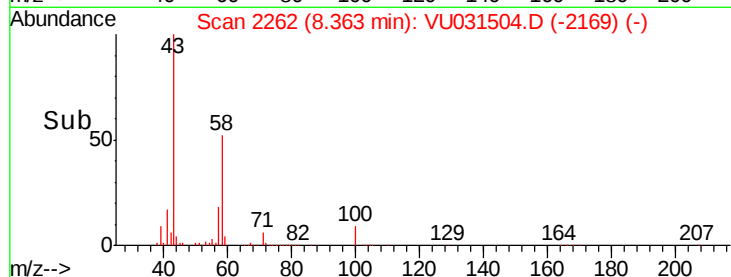
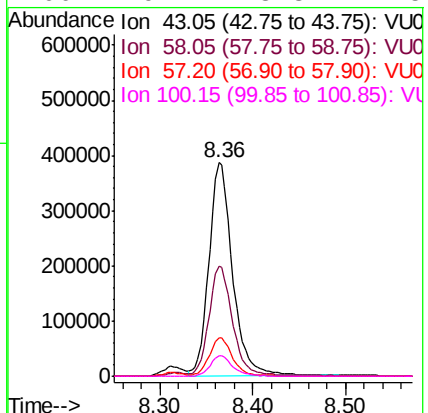
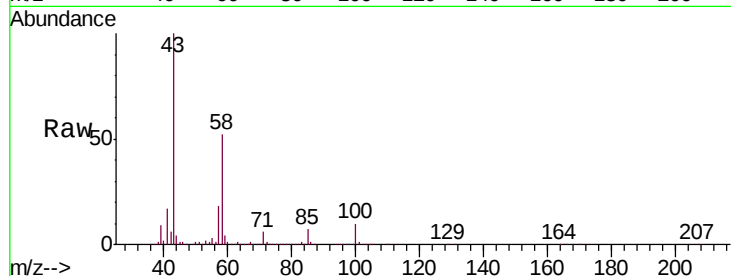




#48
2-Hexanone
Concen: 57.853 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

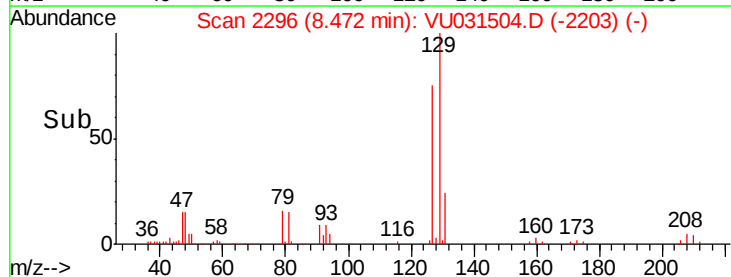
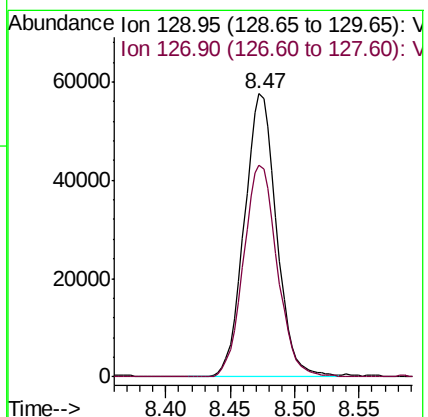
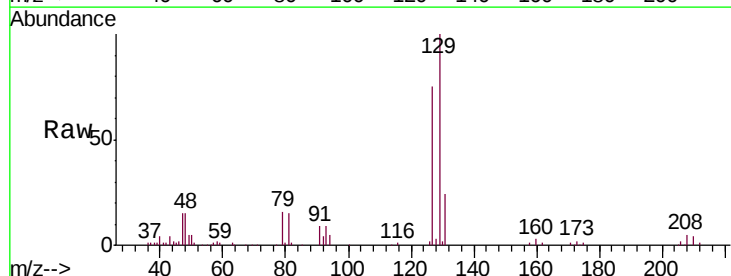
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

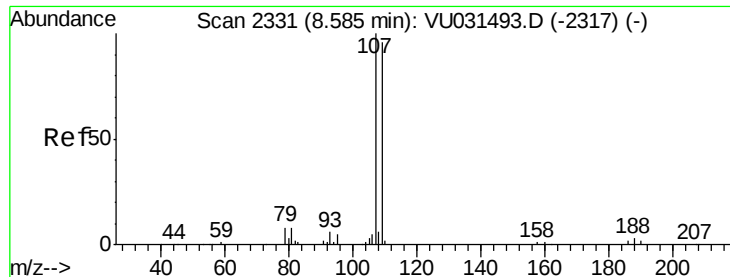
Tgt Ion: 43 Resp: 680536
Ion Ratio Lower Upper
43 100
58 51.3 44.6 67.0
57 17.7 15.3 22.9
100 9.4 8.3 12.5



#49
Dibromochloromethane
Concen: 5.347 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

Tgt Ion: 129 Resp: 100064
Ion Ratio Lower Upper
129 100
127 74.7 56.6 105.0





#50

1,2-Dibromoethane

Concen: 5.127 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

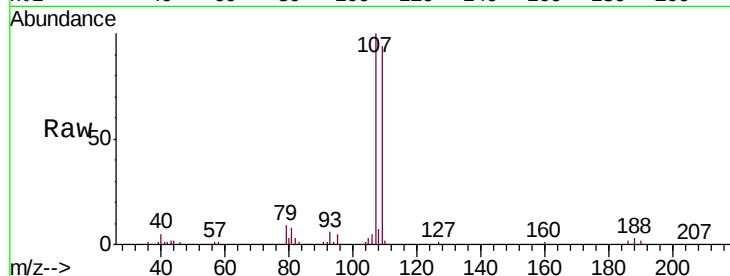
Tgt Ion:107 Resp: 82200

Ion Ratio Lower Upper

107 100

109 93.9 63.1 117.3

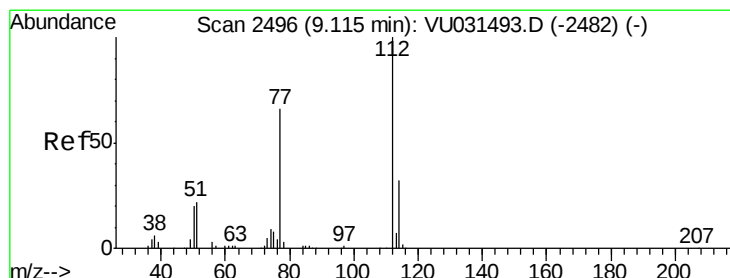
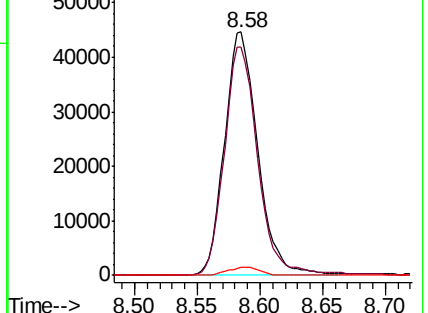
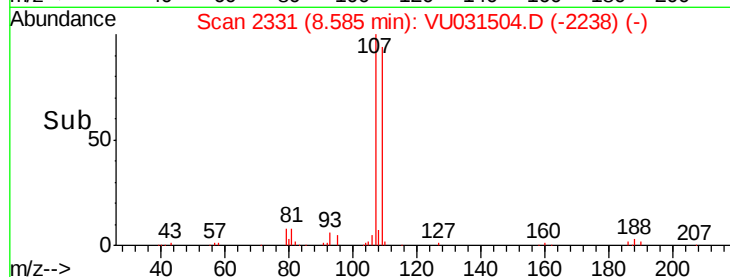
188 3.3 2.2 3.4



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 5.206 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

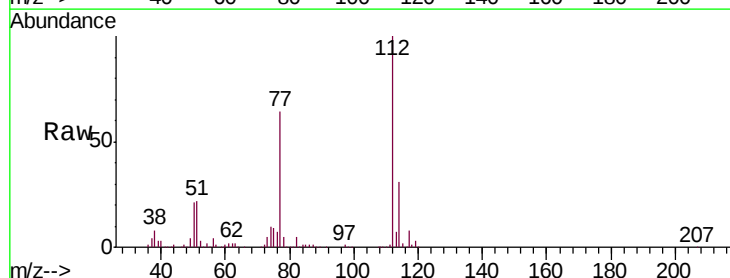
Tgt Ion:112 Resp: 289877

Ion Ratio Lower Upper

112 100

114 31.4 21.9 40.7

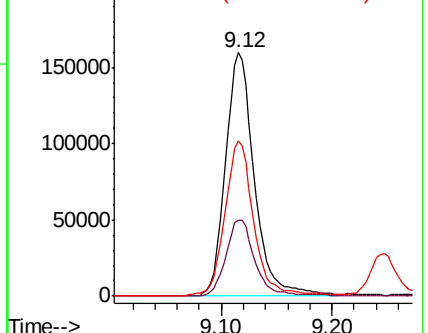
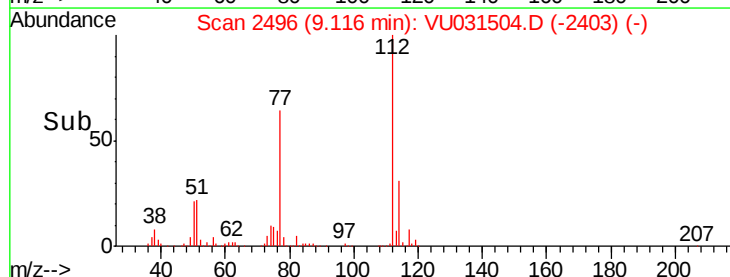
77 63.9 48.9 73.3

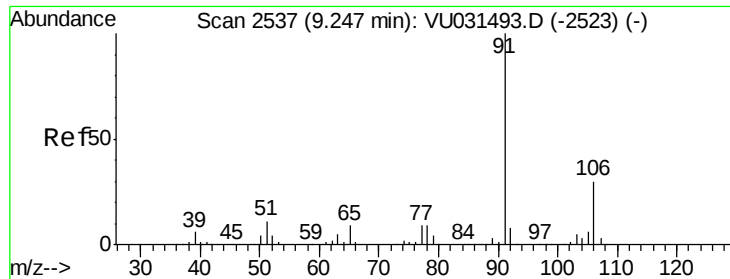


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU

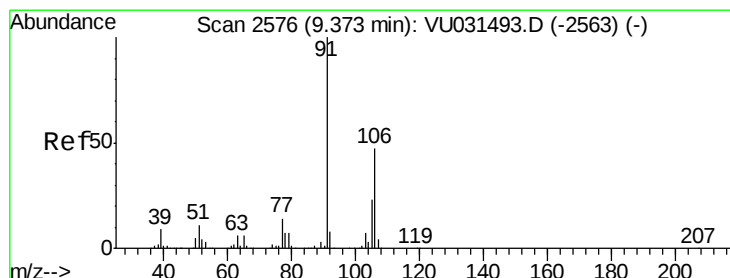
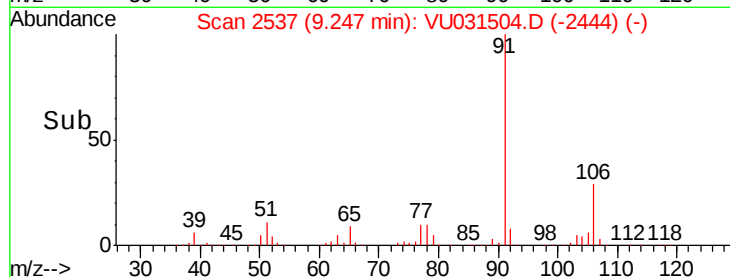
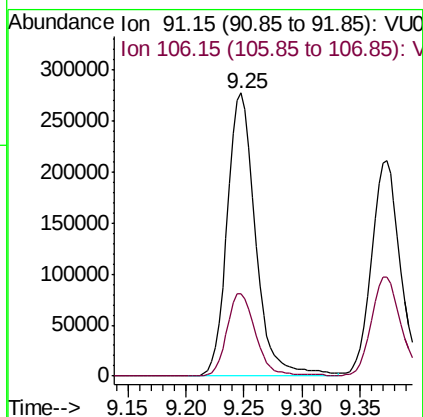
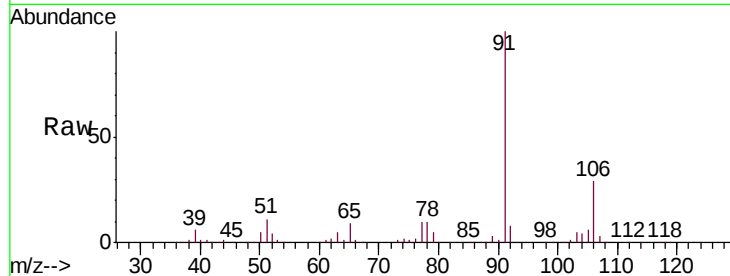




#52
Ethylbenzene
Concen: 4.807 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

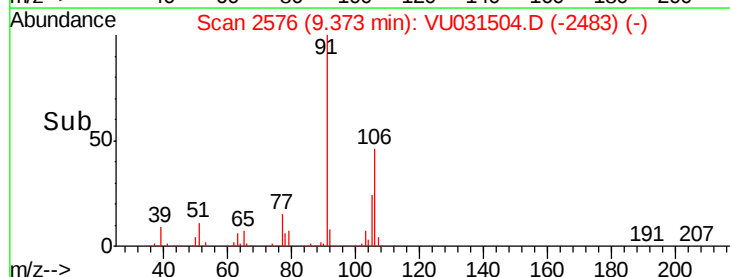
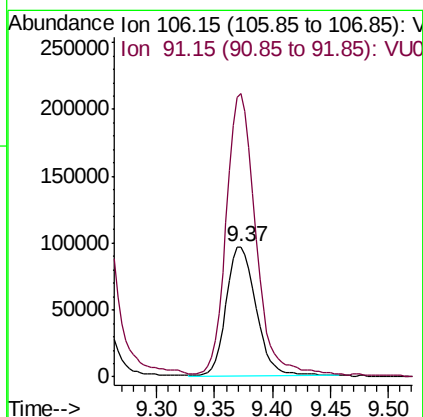
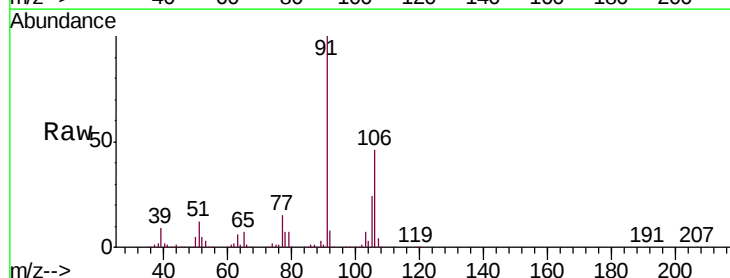
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

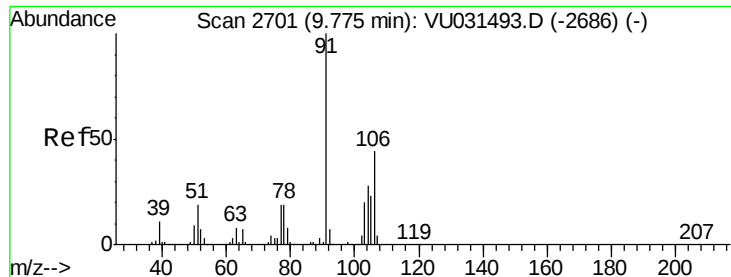
Tgt Ion: 91 Resp: 469791
Ion Ratio Lower Upper
91 100
106 29.3 21.3 39.6



#53
m,p-Xylene
Concen: 4.984 ug/L
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

Tgt Ion: 106 Resp: 173447
Ion Ratio Lower Upper
106 100
91 217.5 147.8 274.4

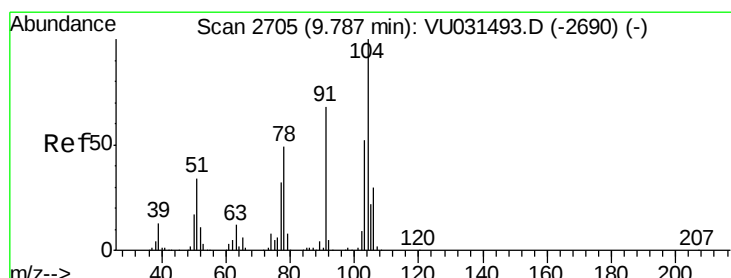
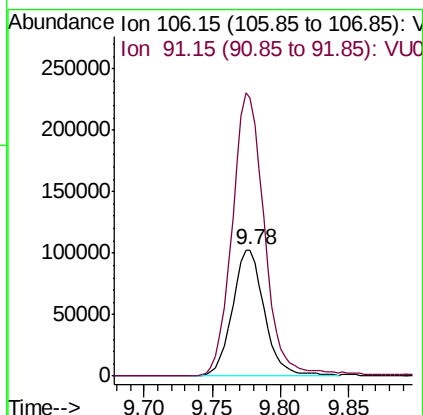
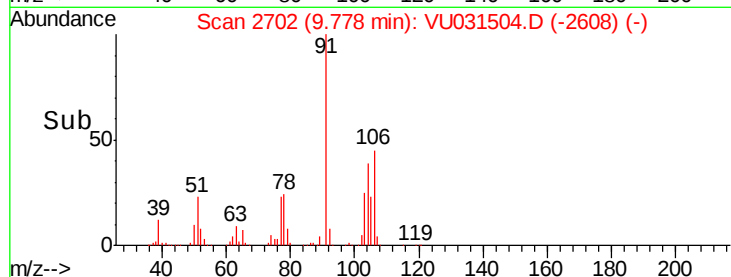
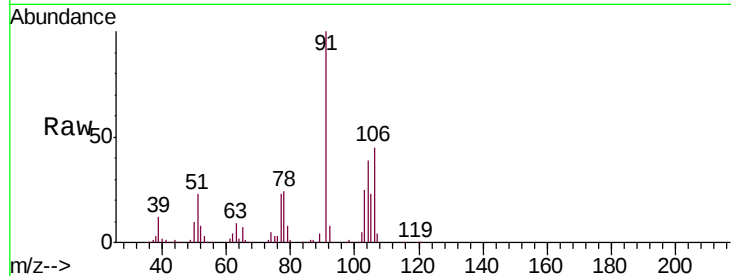




#54
o-Xylene
Concen: 4.891 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

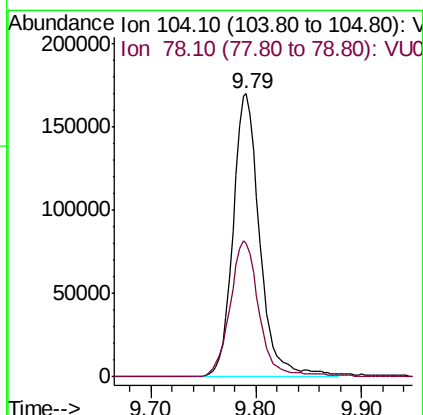
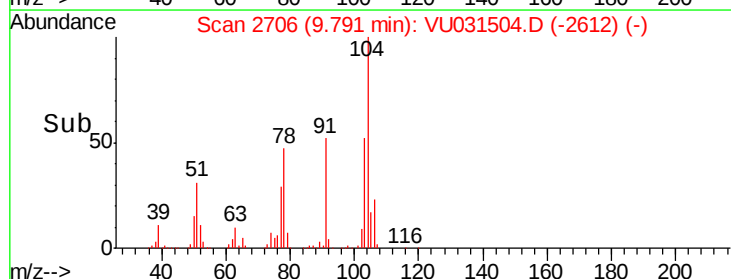
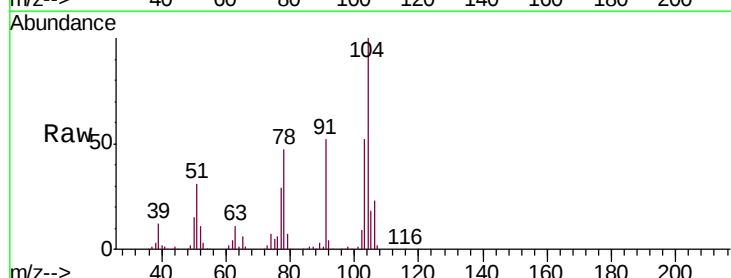
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

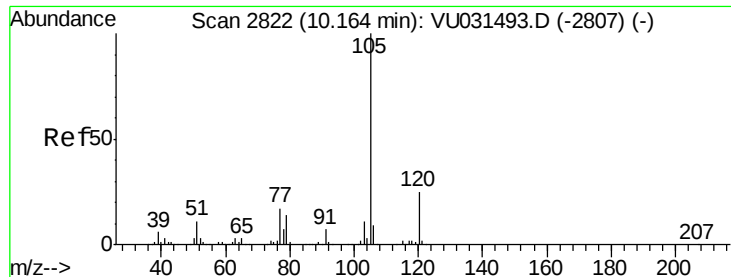
Tgt Ion:106 Resp: 168063
Ion Ratio Lower Upper
106 100
91 220.6 152.7 283.7



#55
Styrene
Concen: 5.257 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU031504.D
Acq: 25 Apr 2019 16:30

Tgt Ion:104 Resp: 298792
Ion Ratio Lower Upper
104 100
78 47.2 32.1 59.5





#56

Isopropylbenzene

Concen: 4.872 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

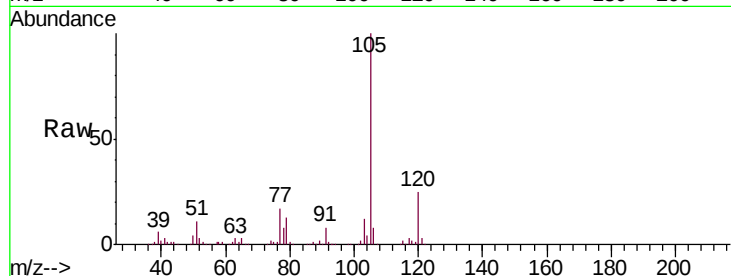
Tgt Ion:105 Resp: 442275

Ion Ratio Lower Upper

105 100

120 25.2 20.8 31.2

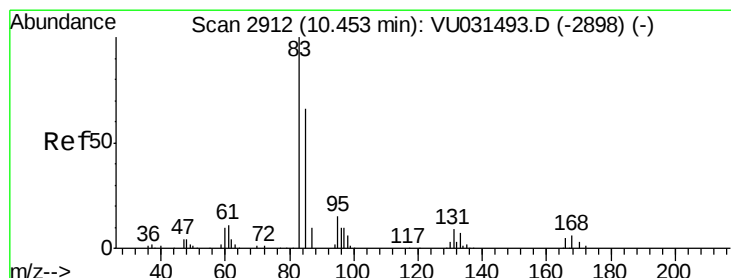
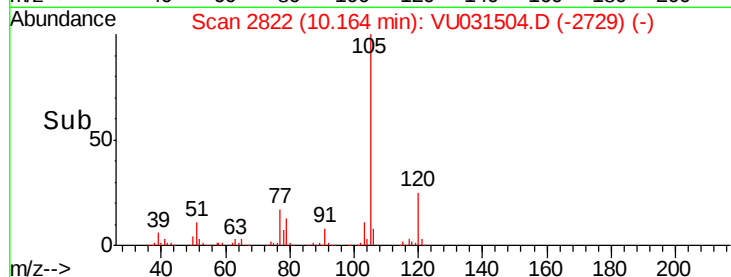
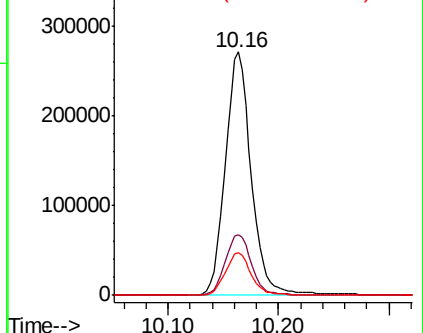
77 17.6 13.2 19.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.248 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

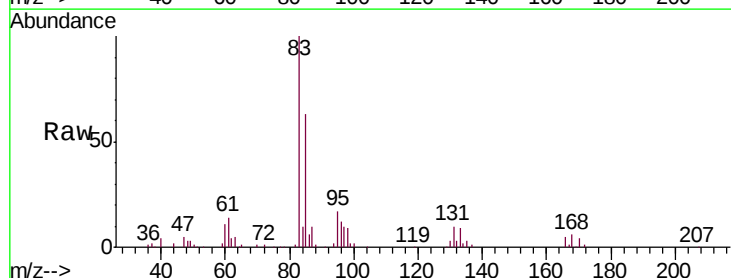
Tgt Ion: 83 Resp: 111528

Ion Ratio Lower Upper

83 100

85 62.7 42.8 79.4

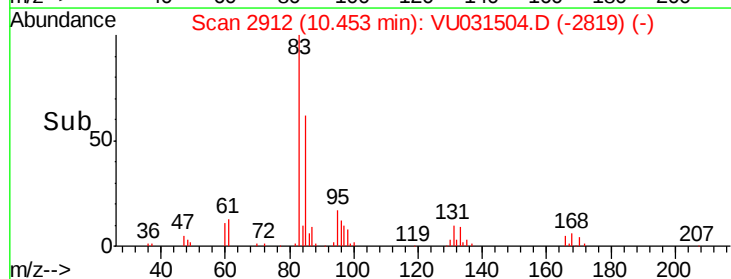
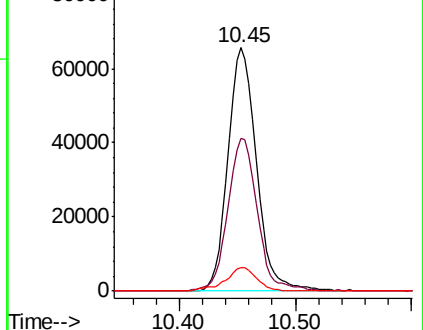
131 9.8 7.0 10.4

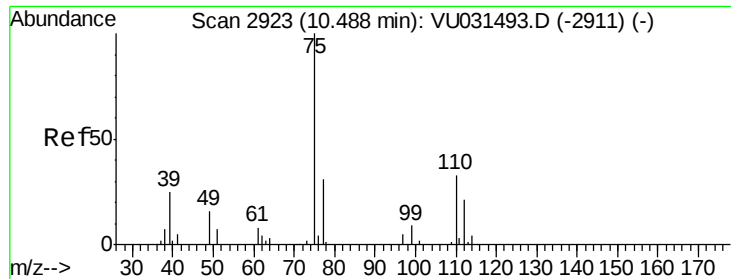


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

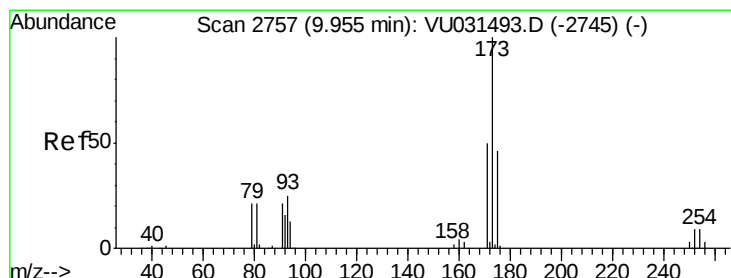
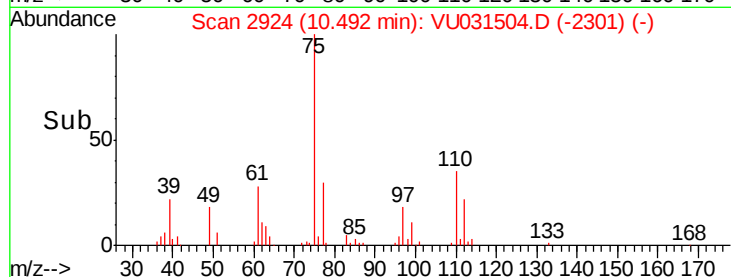
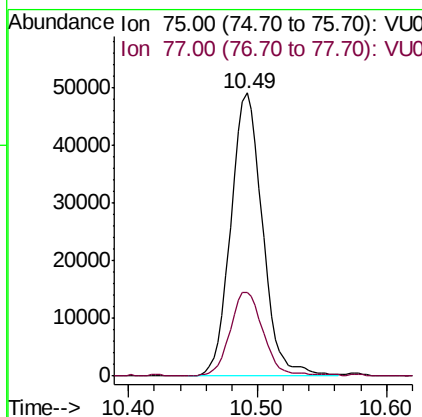
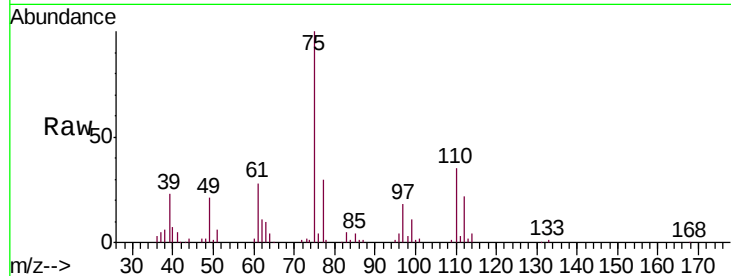




#59
 1,2,3-Trichloropropane
 Concen: 5.447 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

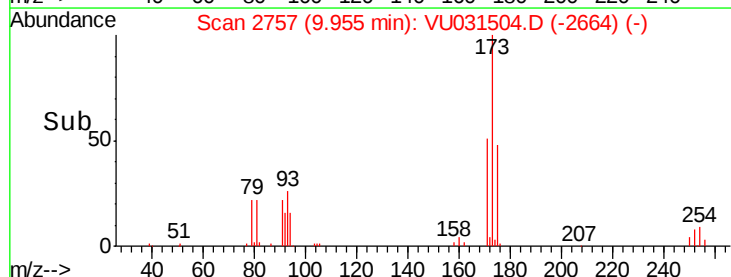
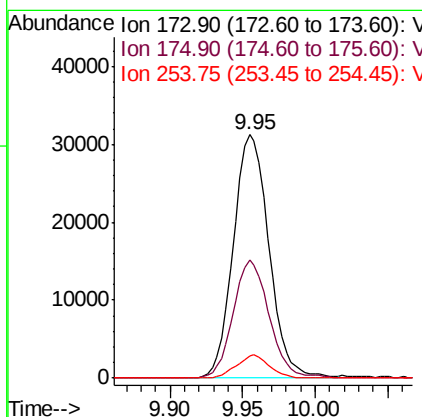
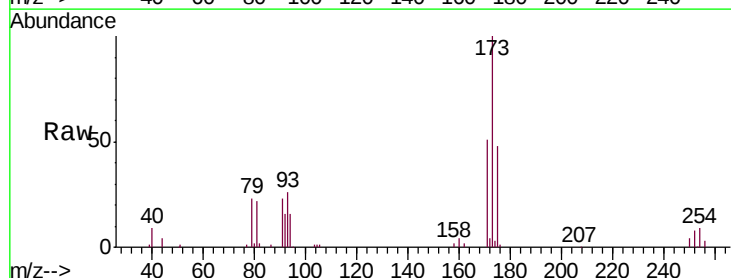
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

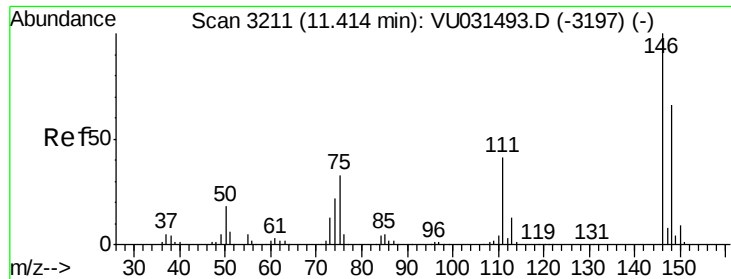
Tgt Ion: 75 Resp: 84100
 Ion Ratio Lower Upper
 75 100
 77 30.5 25.7 38.5



#61
 Bromoform
 Concen: 5.565 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

Tgt Ion: 173 Resp: 53577
 Ion Ratio Lower Upper
 173 100
 175 48.9 39.9 59.9
 254 8.7 7.1 10.7

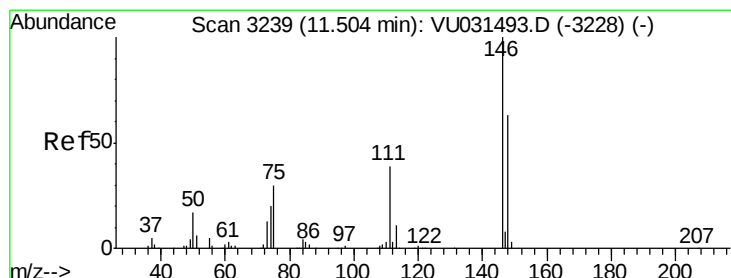
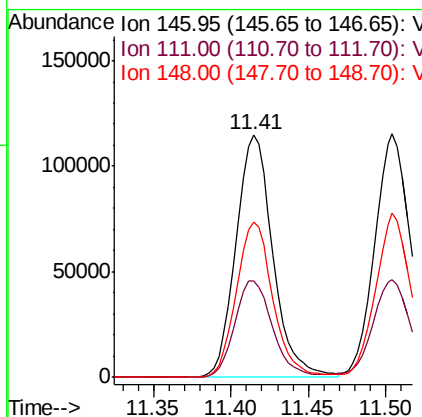
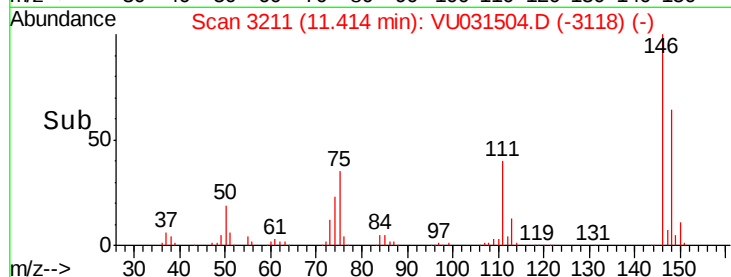
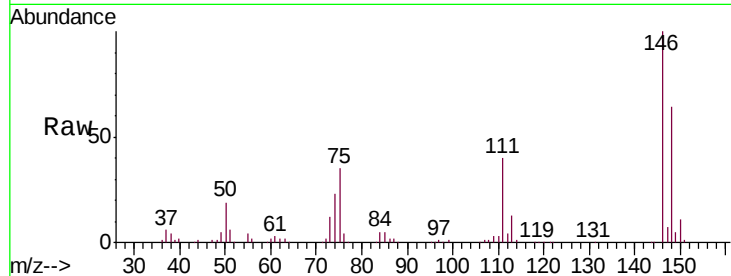




#62
 1,3-Dichlorobenzene
 Concen: 5.255 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

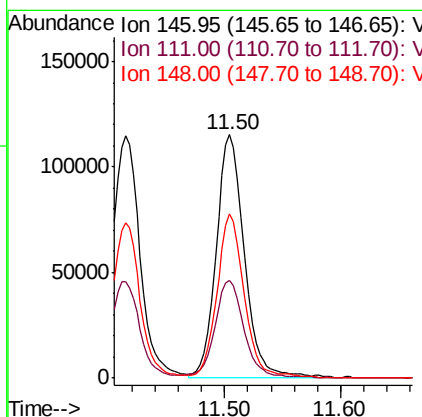
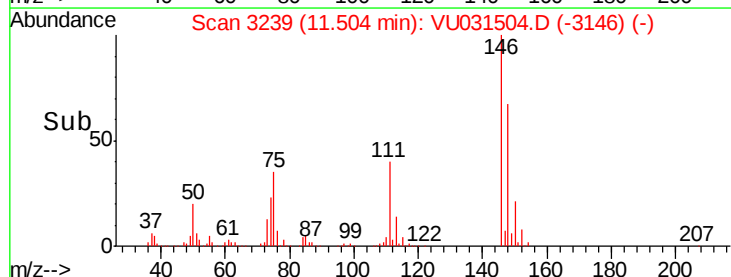
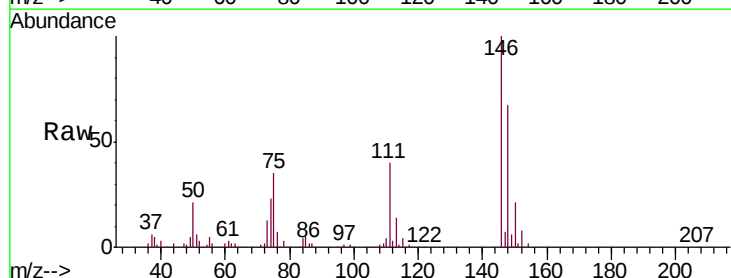
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

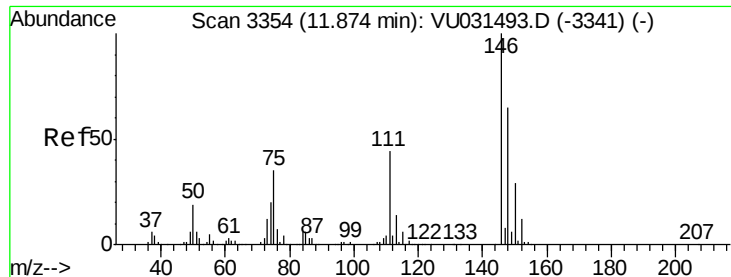
Tgt Ion:146 Resp: 190407
 Ion Ratio Lower Upper
 146 100
 111 39.8 28.5 52.9
 148 64.0 43.8 81.4



#63
 1,4-Dichlorobenzene
 Concen: 5.112 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

Tgt Ion:146 Resp: 192913
 Ion Ratio Lower Upper
 146 100
 111 40.0 26.7 49.5
 148 67.3 43.3 80.3





#65

1,2-Dichlorobenzene

Concen: 5.329 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampled :

VSTD00522

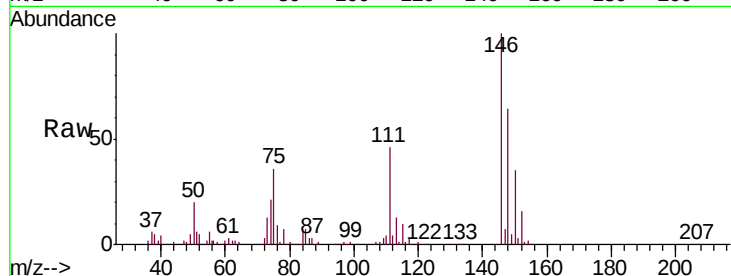
Tgt Ion:146 Resp: 191455

Ion Ratio Lower Upper

146 100

111 45.6 34.0 51.0

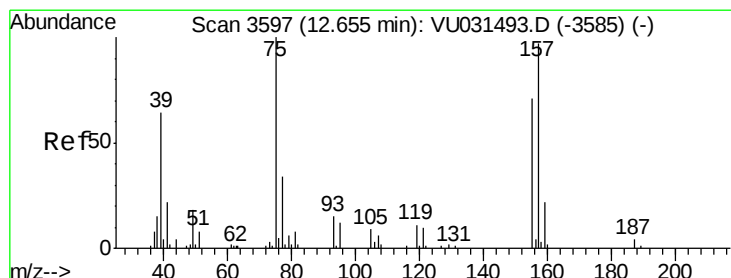
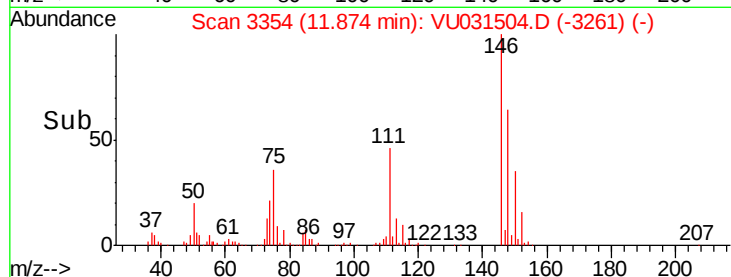
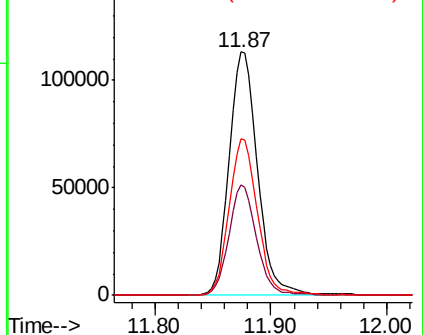
148 64.1 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.337 ug/L

RT: 12.66 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

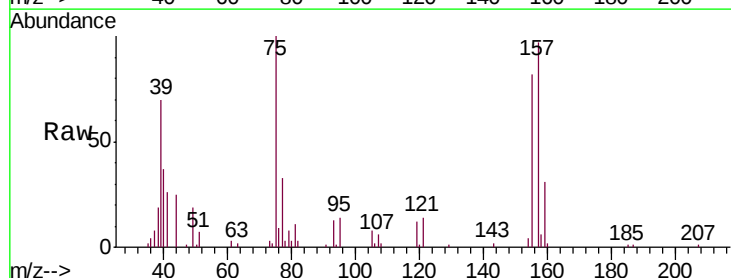
Tgt Ion: 75 Resp: 16038

Ion Ratio Lower Upper

75 100

155 82.4 57.2 85.8

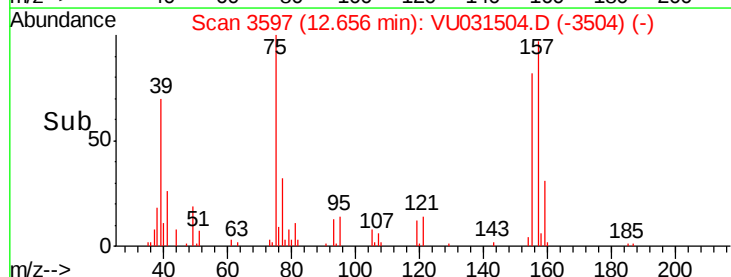
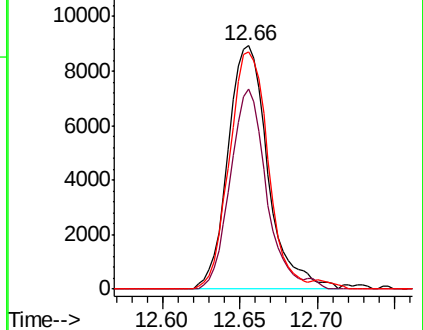
157 97.2 71.9 107.9

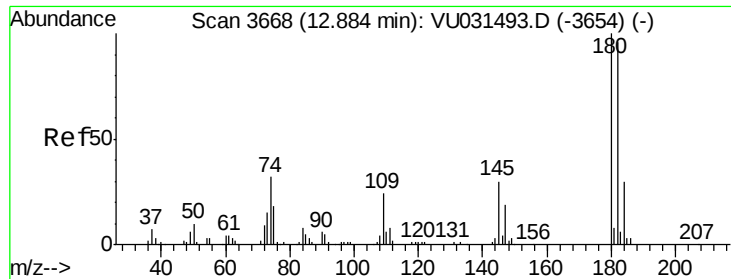


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

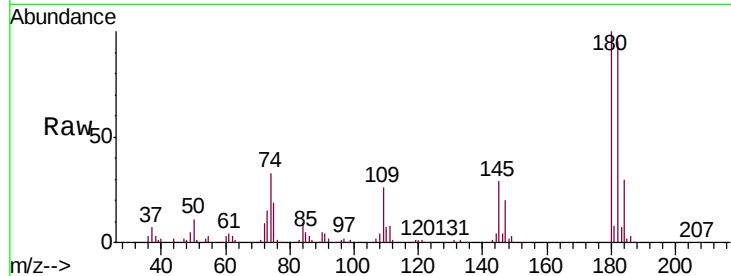




#67
 1,3,5-Trichlorobenzene
 Concen: 5.254 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	77.8	116.6
184	30.4	24.6	36.8
145	29.8	23.8	35.8



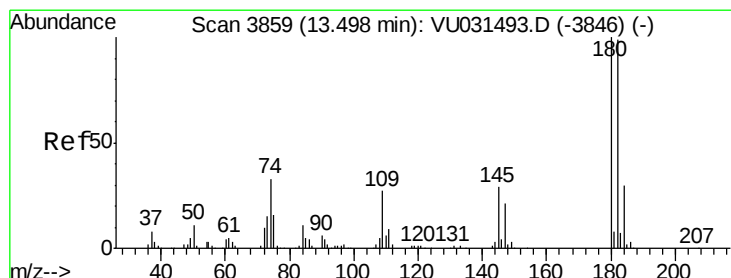
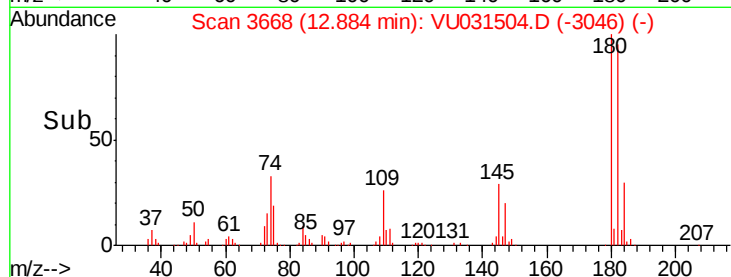
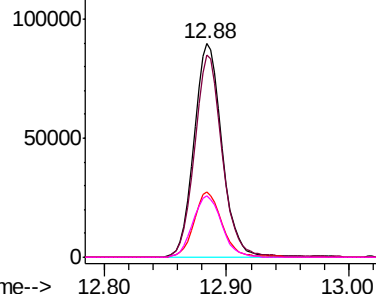
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

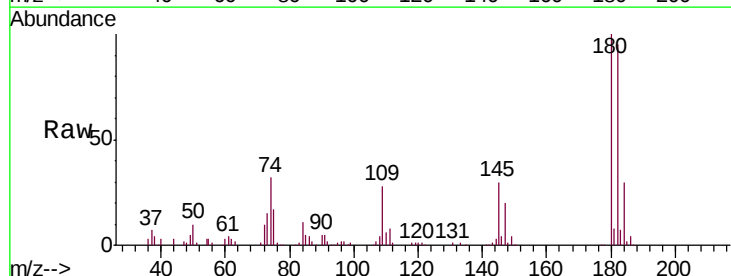
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.815 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU031504.D
 Acq: 25 Apr 2019 16:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.9	115.3
145	32.0	24.2	36.4

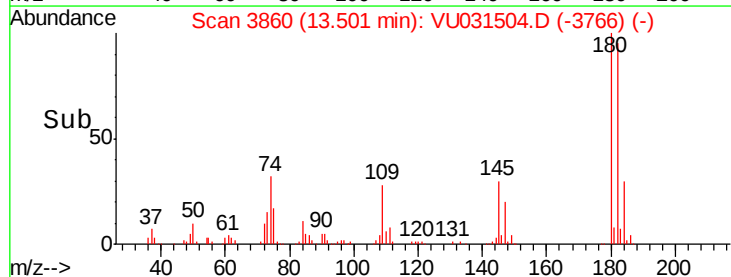
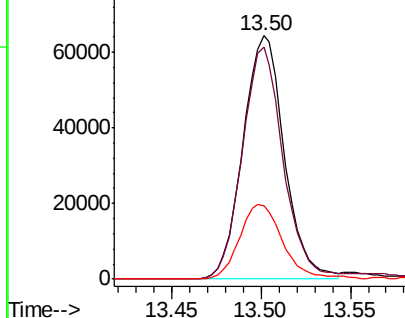


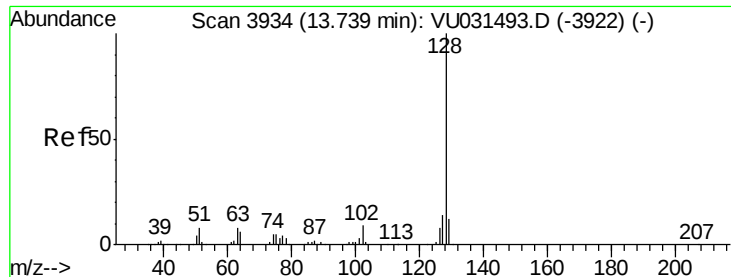
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.186 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

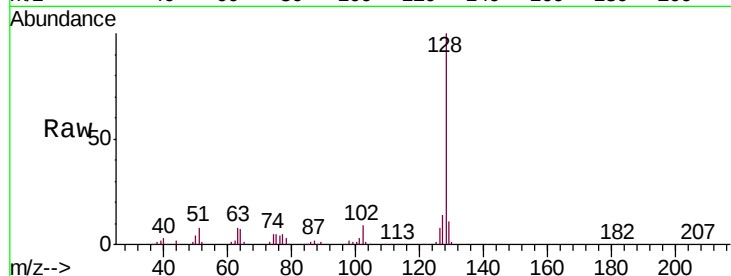
Tgt Ion:128 Resp: 177429

Ion Ratio Lower Upper

128 100

129 10.3 8.0 12.0

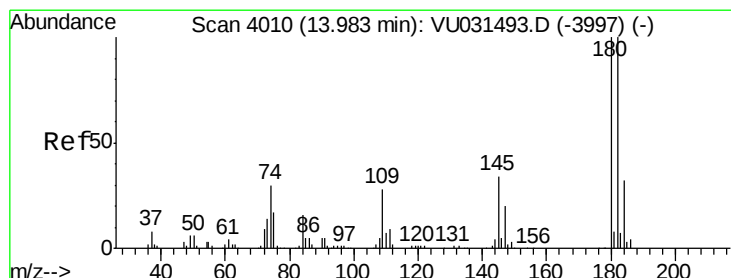
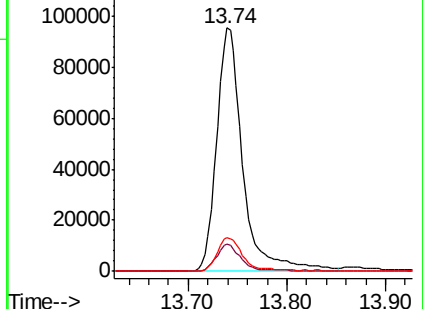
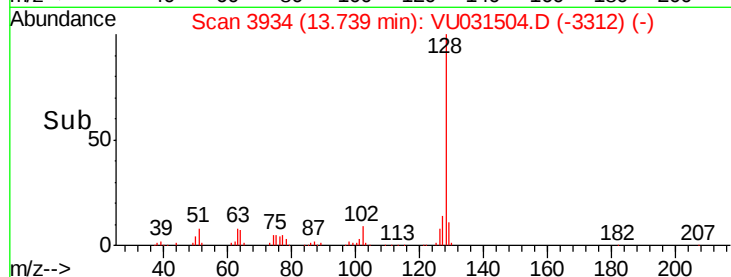
127 13.5 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.037 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031504.D

Acq: 25 Apr 2019 16:30

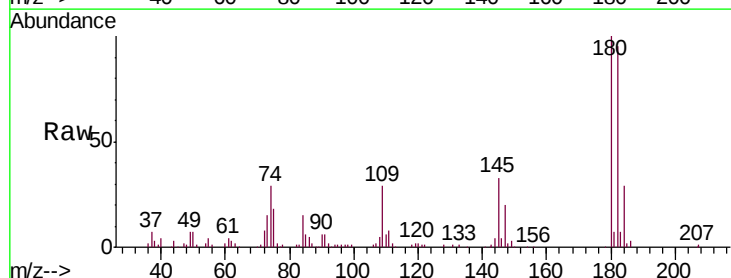
Tgt Ion:180 Resp: 107791

Ion Ratio Lower Upper

180 100

182 96.3 76.4 114.6

145 32.7 25.8 38.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

