

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041719\
 Data File : VU031214.D
 Acq On : 16 Apr 2019 16:31
 Operator : JC/SP
 Sample : VSTD01048
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

Quant Time: Apr 17 02:38:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Apr 17 02:35:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	501242	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	480756	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	206815	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	50267	11.29	ug/L	0.00
7) Chloroethane-d5	1.68	69	41490	11.78	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	92821	11.33	ug/L	0.00
21) 2-Butanone-d5	4.20	46	65784	18.69	ug/L	0.00
24) Chloroform-d	4.65	84	78487	11.16	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	47315	10.09	ug/L	0.00
32) Benzene-d6	5.34	84	144318	10.10	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	48911	10.16	ug/L	0.00
41) Toluene-d8	7.56	98	127596	10.14	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	21535	9.74	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	39341	17.86	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	66681	10.28	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	46440	11.22	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	47580	10.744 ug/L	99
3) Chloromethane	1.32	50	57051	10.160 ug/L	99
5) Vinyl chloride	1.40	62	61101	11.274 ug/L	95
6) Bromomethane	1.63	94	38227	12.859 ug/L	97
8) Chloroethane	1.70	64	37509	11.710 ug/L	100
9) Trichlorofluoromethane	1.88	101	79236	12.009 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	41087	11.280 ug/L	98
12) 1,1-Dichloroethene	2.28	96	40648	11.625 ug/L	92
13) Acetone	2.33	43	56679	16.718 ug/L	98
14) Carbon disulfide	2.48	76	105400	9.927 ug/L	100
15) Methyl Acetate	2.62	43	44253	8.279 ug/L	99
16) Methylene chloride	2.70	84	38194	9.300 ug/L	96
17) trans-1,2-Dichloroethene	2.98	96	34271	9.521 ug/L	99
18) Methyl tert-butyl Ether	3.00	73	105839	8.830 ug/L	97
19) 1,1-Dichloroethane	3.44	63	70592	9.538 ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	42089	10.272 ug/L	95
22) 2-Butanone	4.28	43	69138	16.877 ug/L	94
23) Bromochloromethane	4.55	128	20639	10.601 ug/L	98
25) Chloroform	4.67	83	76329	10.020 ug/L	98
27) 1,2-Dichloroethane	5.40	62	58157	10.059 ug/L	99
29) Cyclohexane	4.99	56	60696	8.811 ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	63321	10.638 ug/L	98
31) Carbon tetrachloride	5.13	117	54410	10.598 ug/L	92
33) Benzene	5.39	78	161085	10.192 ug/L	100
34) Trichloroethene	6.19	95	40764	10.512 ug/L	95
35) Methylcyclohexane	6.41	83	57234	9.662 ug/L	97
37) 1,2-Dichloropropane	6.43	63	43537	9.897 ug/L	# 93
38) Bromodichloromethane	6.76	83	53360	9.929 ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	59940	9.547 ug/L	96
40) 4-Methyl-2-pentanone	7.46	43	114312	16.562 ug/L	98

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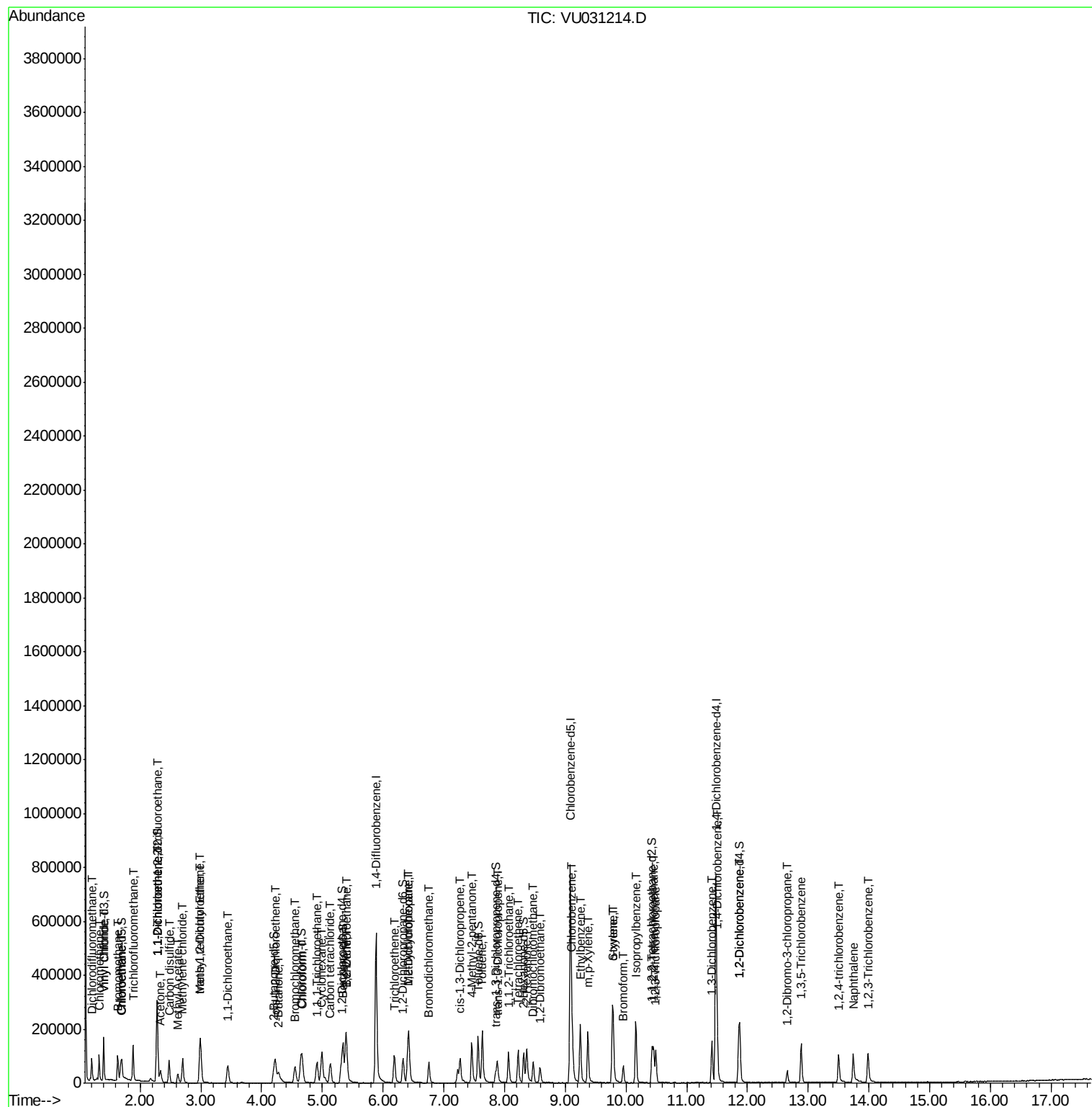
42) Toluene	7.64	91	152276	9.539	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	50519	9.099	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	38506	10.149	ug/L	97
46) Tetrachloroethene	8.22	164	30094	10.556	ug/L	96
48) 2-Hexanone	8.37	43	88440	16.489	ug/L	98
49) Dibromochloromethane	8.47	129	39565	9.810	ug/L	95
50) 1,2-Dibromoethane	8.58	107	40820	10.017	ug/L #	94
51) Chlorobenzene	9.12	112	97753	9.902	ug/L	95
52) Ethylbenzene	9.25	91	165353	9.491	ug/L	99
53) m,p-Xylene	9.37	106	60820	9.949	ug/L	100
54) o-xylene	9.78	106	57966	9.522	ug/L	97
55) Styrene	9.79	104	88480	8.514	ug/L	99
56) Isopropylbenzene	10.16	105	146939	9.217	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	66671	9.856	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	50899	9.693	ug/L	99
61) Bromoform	9.96	173	30066	10.936	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	66079	10.127	ug/L	95
63) 1,4-Dichlorobenzene	11.50	146	68165	10.223	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	70856	10.753	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	12697	9.303	ug/L	97
67) 1,3,5-Trichlorobenzene	12.89	180	49089	10.220	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	37310	9.207	ug/L	95
69) Naphthalene	13.74	128	101019	7.724	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	42407	9.941	ug/L	97

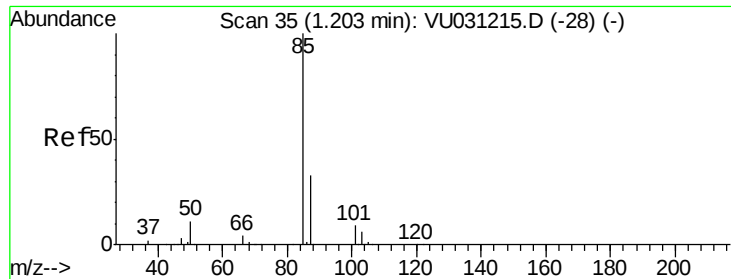
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 10.744 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

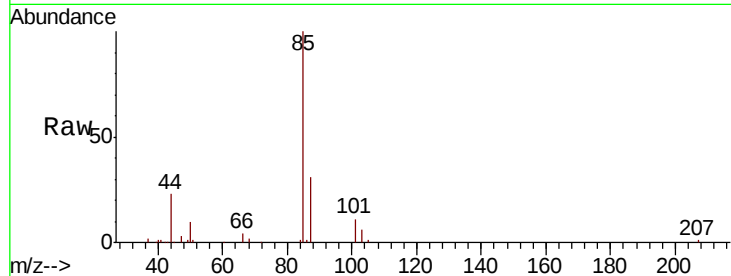
VSTD01048

Tgt Ion: 85 Resp: 47580

Ion Ratio Lower Upper

85 100

87 32.3 26.2 39.2

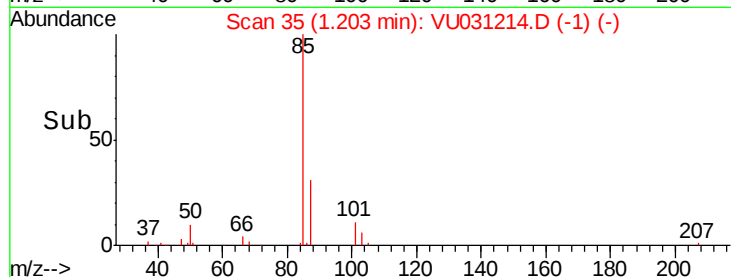


Abundance Ion 85.00 (84.70 to 85.70): VU031214.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031214.D (-1) (-)

1.20

Time-->



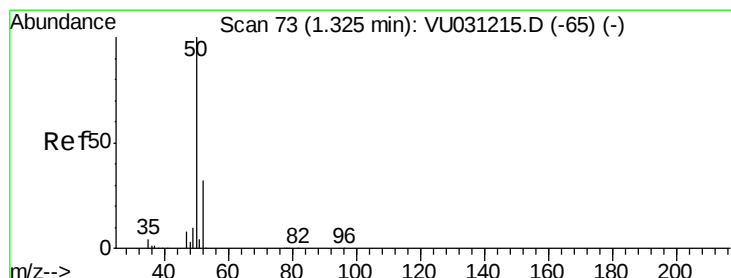
Abundance

Ion 85.00 (84.70 to 85.70): VU031214.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031214.D (-1) (-)

1.20

Time-->



#3

Chloromethane

Concen: 10.160 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU031214.D

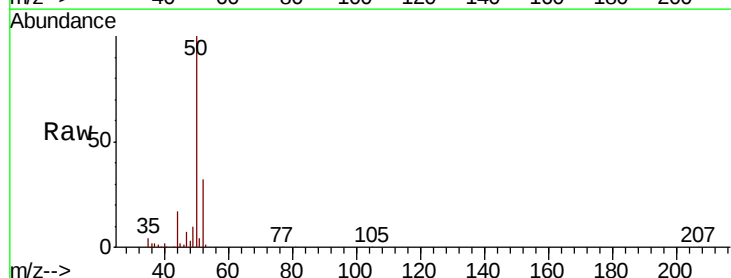
Acq: 16 Apr 2019 16:31

Tgt Ion: 50 Resp: 57051

Ion Ratio Lower Upper

50 100

52 32.1 22.7 42.3

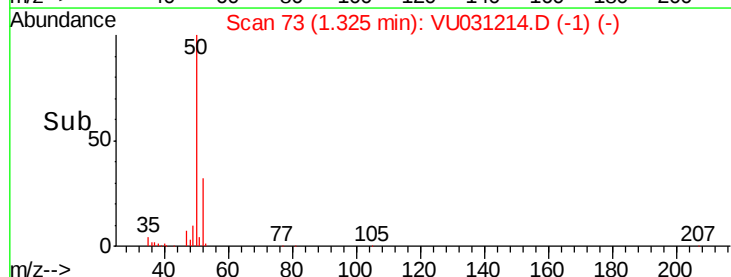


Abundance Ion 50.00 (49.70 to 50.70): VU031214.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU031214.D (-1) (-)

1.32

Time-->



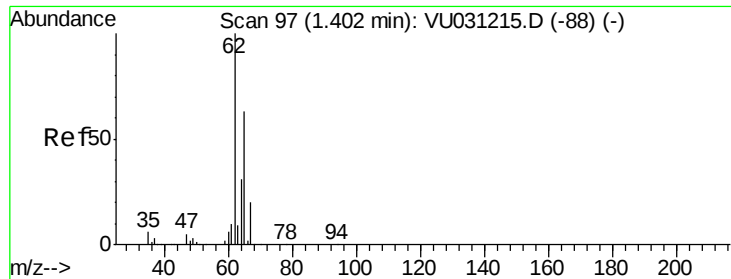
Abundance

Ion 50.00 (49.70 to 50.70): VU031214.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU031214.D (-1) (-)

1.32

Time-->



#5

Vinyl chloride

Concen: 11.274 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

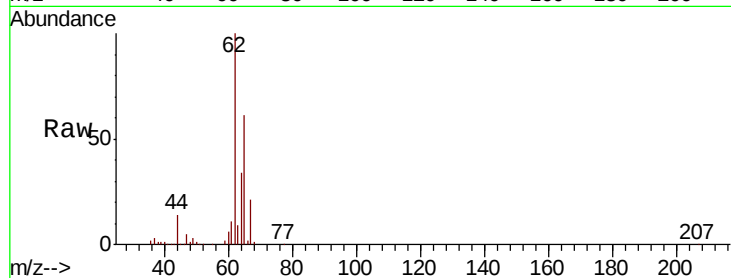
VSTD01048

Tgt Ion: 62 Resp: 61101

Ion Ratio Lower Upper

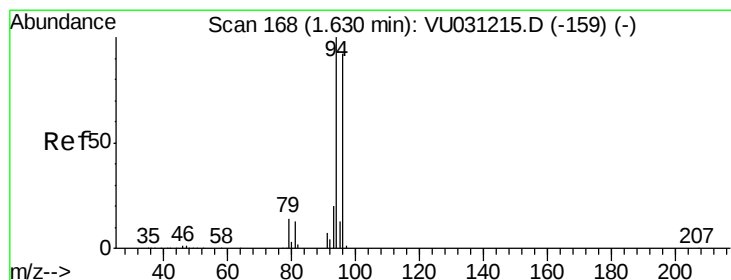
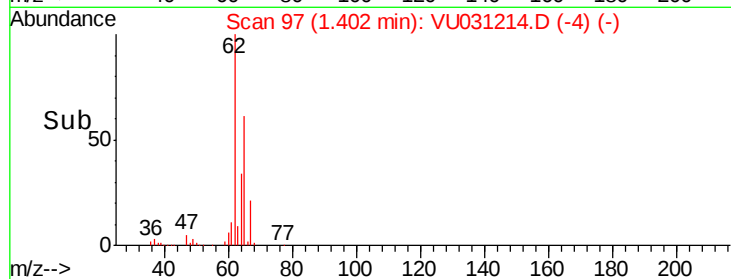
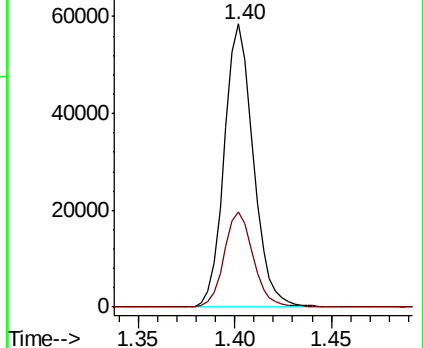
62 100

64 33.7 21.8 40.6



Abundance Ion 62.00 (61.70 to 62.70): VU031214.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031214.D (-88) (-)



#6

Bromomethane

Concen: 12.859 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU031214.D

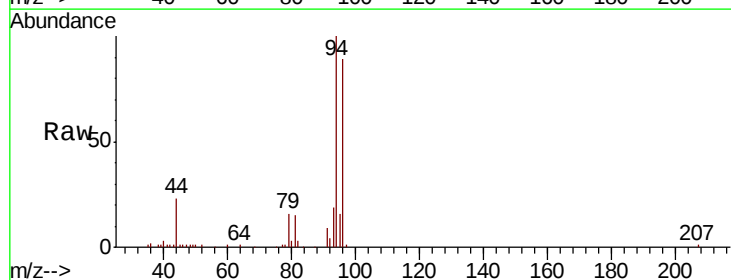
Acq: 16 Apr 2019 16:31

Tgt Ion: 94 Resp: 38227

Ion Ratio Lower Upper

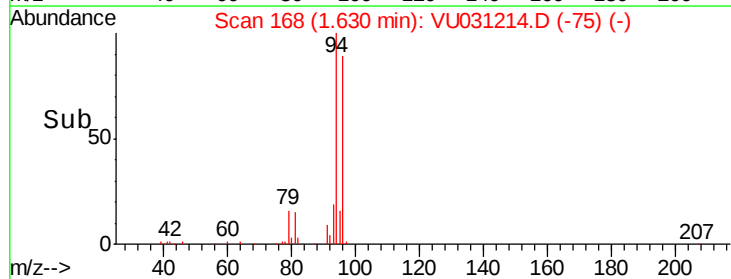
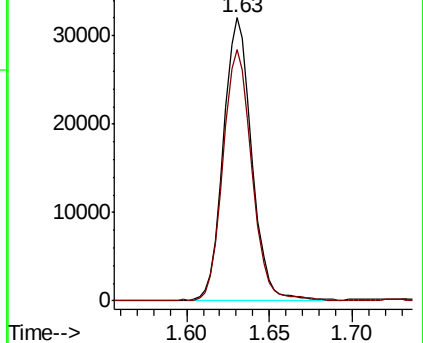
94 100

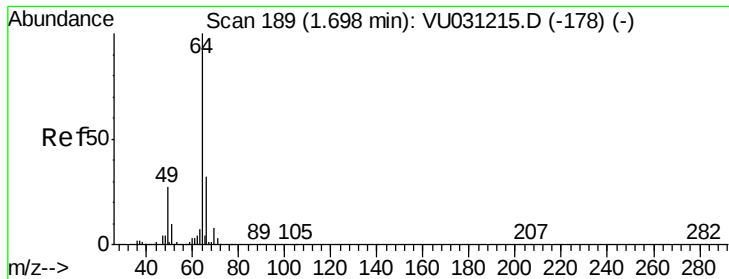
96 89.0 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU031214.D (-159) (-)

Ion 96.00 (95.70 to 96.70): VU031214.D (-159) (-)

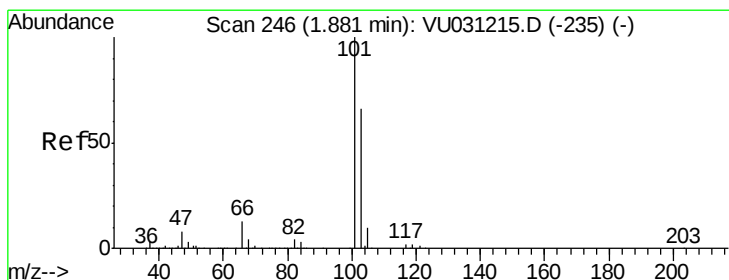
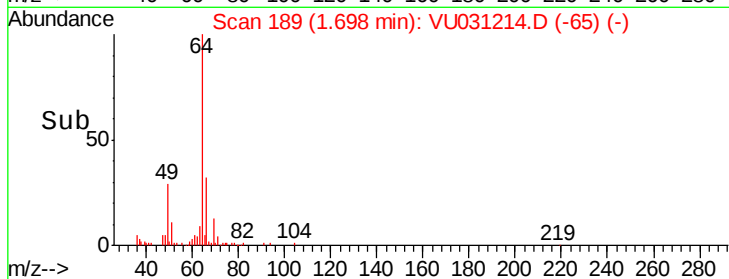
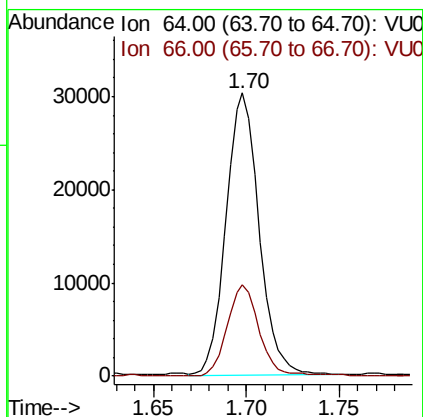
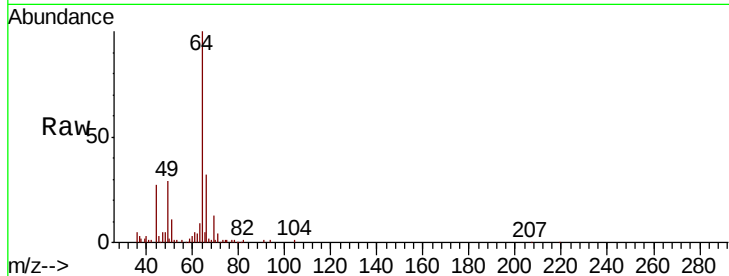




#8
Chloroethane
Concen: 11.710 ug/L
RT: 1.70 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU031214.D
Acq: 16 Apr 2019 16:31

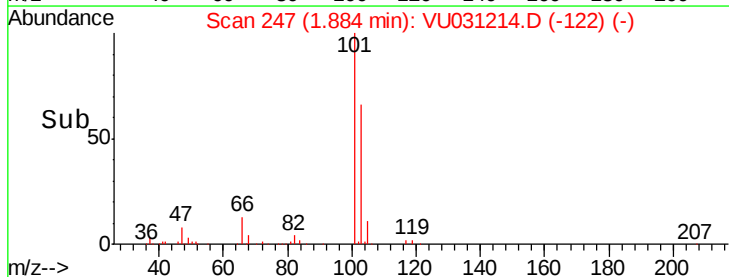
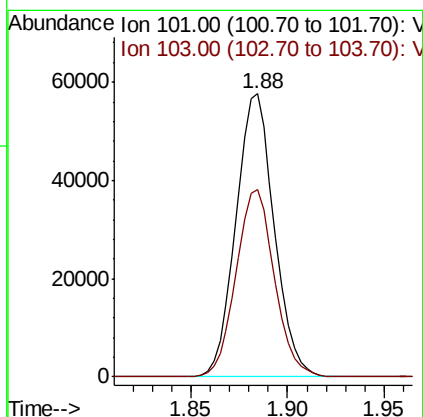
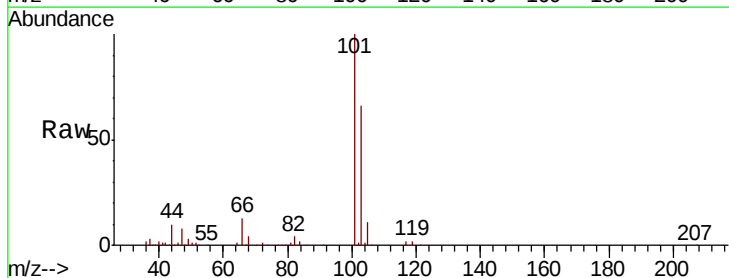
Instrument :
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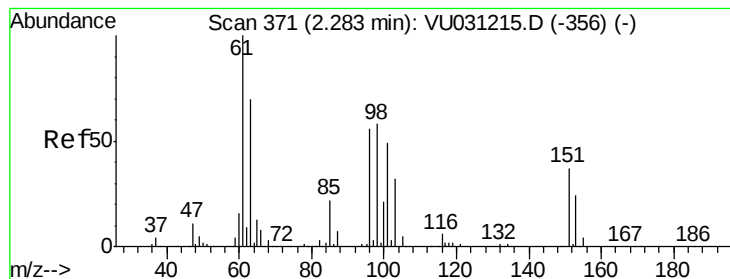
Tgt Ion: 64 Resp: 37509
Ion Ratio Lower Upper
64 100
66 32.4 22.6 42.0



#9
Trichlorofluoromethane
Concen: 12.009 ug/L
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU031214.D
Acq: 16 Apr 2019 16:31

Tgt Ion: 101 Resp: 79236
Ion Ratio Lower Upper
101 100
103 66.4 53.0 79.6





#10

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

Concen: 11.280 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD01048

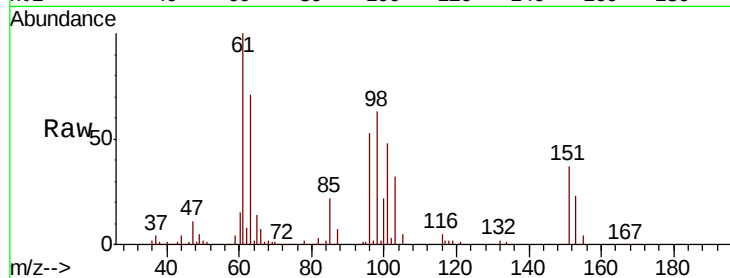
Tgt Ion:101 Resp: 41087

Ion Ratio Lower Upper

101 100

85 44.2 35.4 53.0

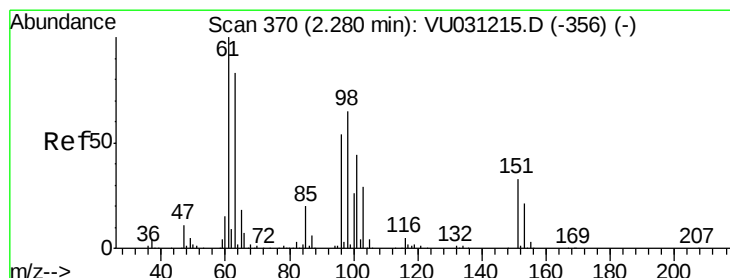
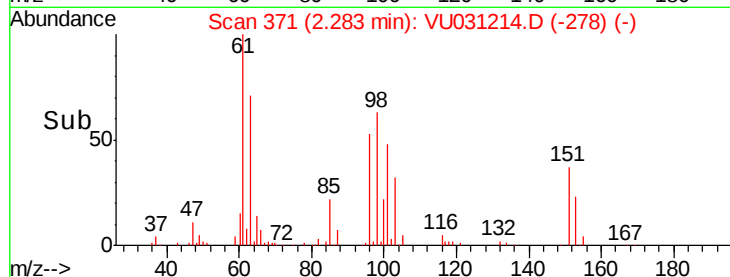
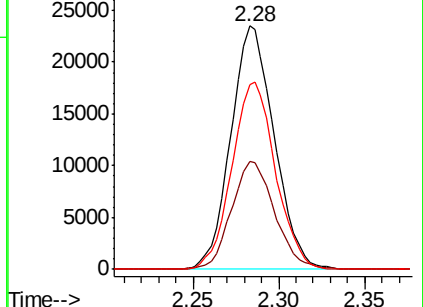
151 77.2 59.8 89.8



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: 11.625 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

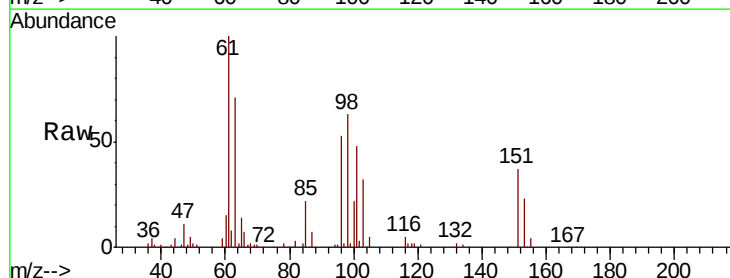
Tgt Ion: 96 Resp: 40648

Ion Ratio Lower Upper

96 100

61 187.9 130.4 242.2

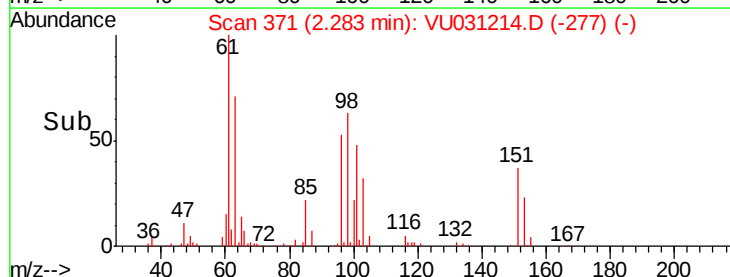
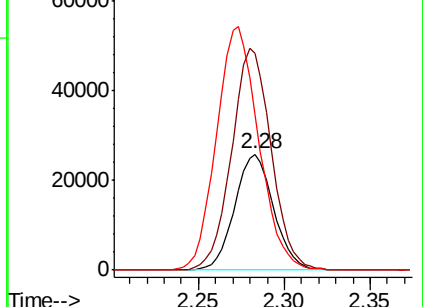
63 133.9 108.9 202.3

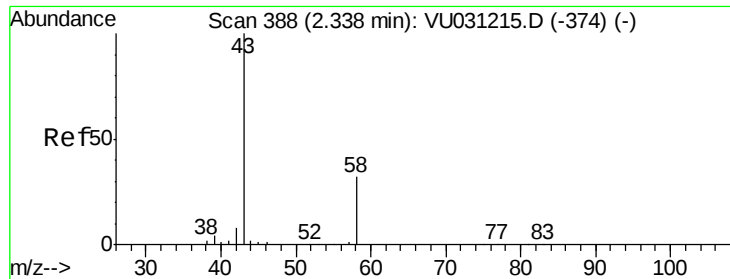


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 16.718 ug/L

RT: 2.33 min Scan# 387

Delta R.T. -0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

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ClientSampleId :

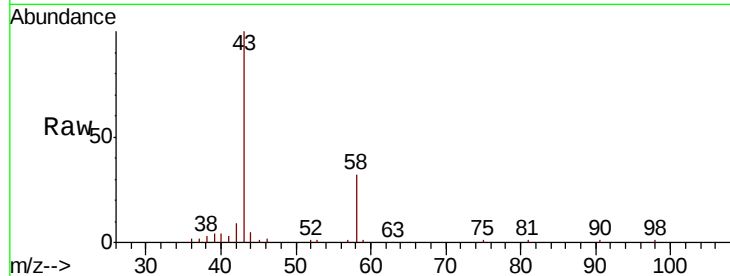
VSTD01048

Tgt Ion: 43 Resp: 56679

Ion Ratio Lower Upper

43 100

58 33.5 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VU031215.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031215.D (-374) (-)

2.33

30000

25000

20000

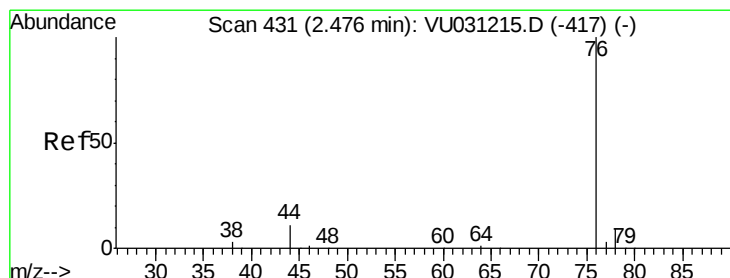
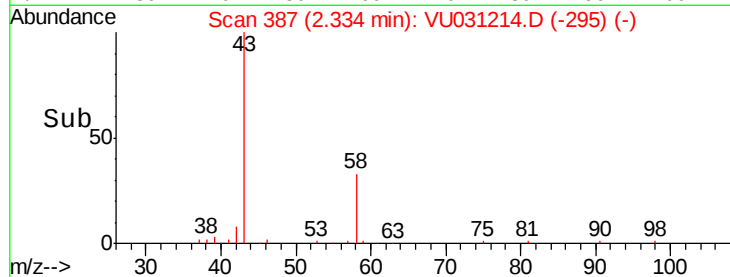
15000

10000

5000

0

Time-->



#14

Carbon disulfide

Concen: 9.927 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU031214.D

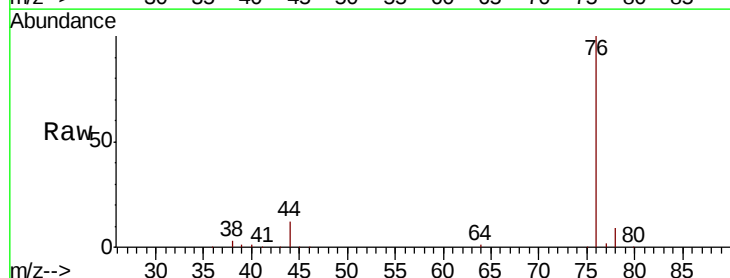
Acq: 16 Apr 2019 16:31

Tgt Ion: 76 Resp: 105400

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU031215.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031215.D (-417) (-)

2.48

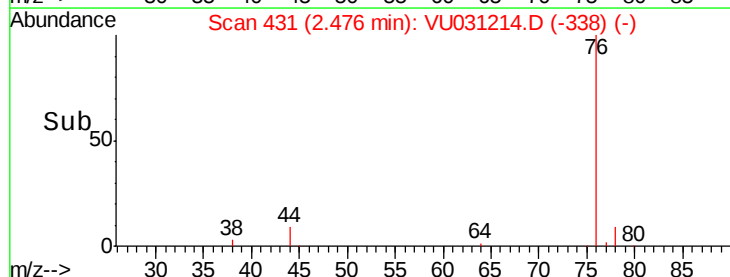
60000

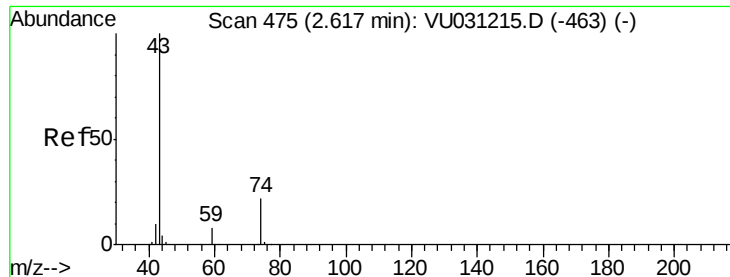
40000

20000

0

Time-->

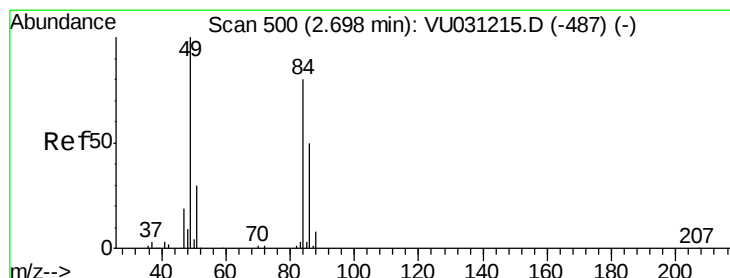
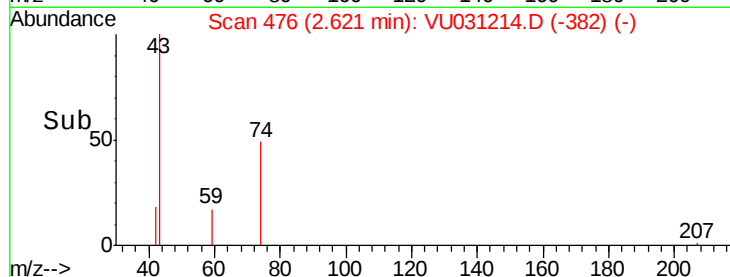
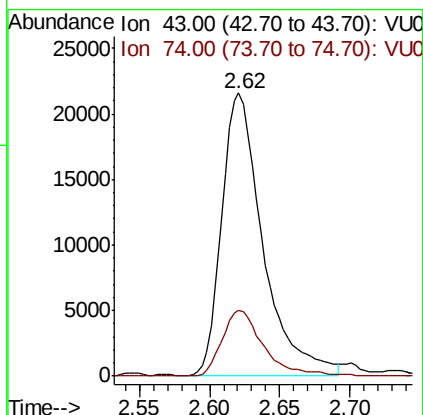
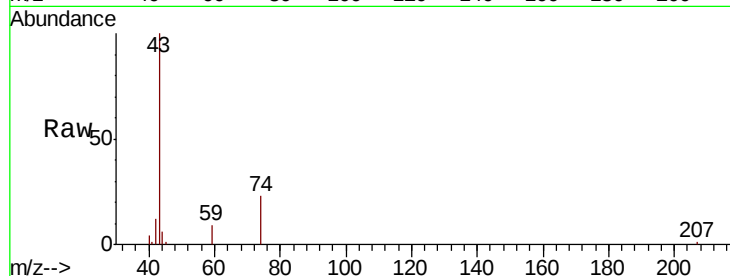




#15
Methyl Acetate
Concen: 8.279 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU031214.D
Acq: 16 Apr 2019 16:31

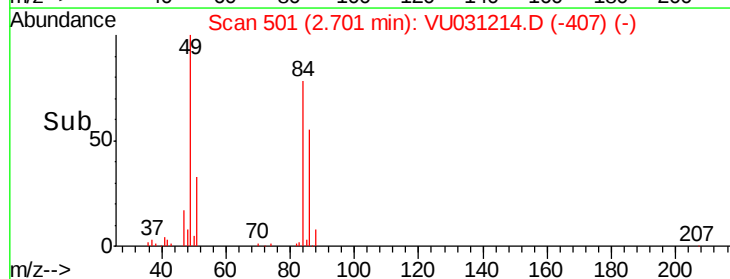
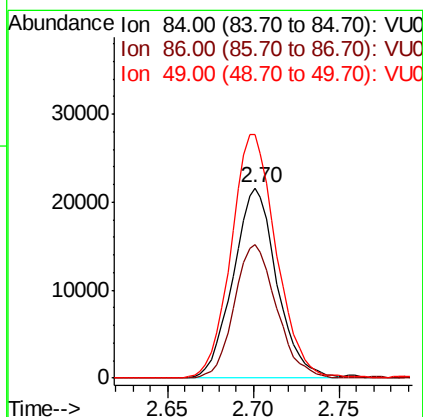
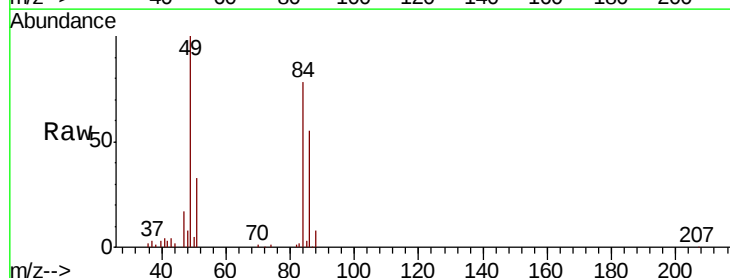
Instrument :
MSVOA_U
ClientSampleId :
VSTD01048

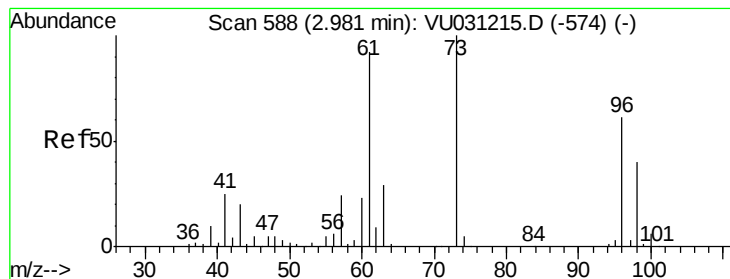
Tgt Ion: 43 Resp: 44253
Ion Ratio Lower Upper
43 100
74 22.4 18.3 27.5



#16
Methylene chloride
Concen: 9.300 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU031214.D
Acq: 16 Apr 2019 16:31

Tgt Ion: 84 Resp: 38194
Ion Ratio Lower Upper
84 100
86 70.1 44.0 81.8
49 127.9 88.0 163.4





#17

trans-1,2-Dichloroethene

Concen: 9.521 ug/L

RT: 2.98 min Scan# 589

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD01048

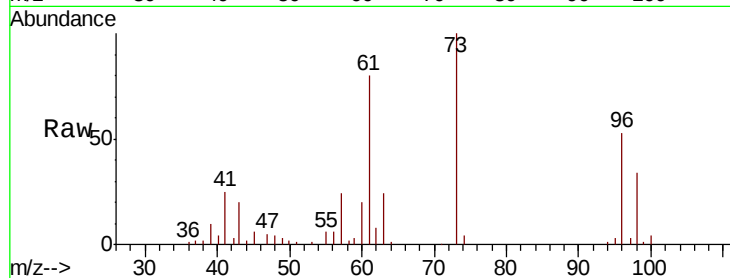
Tgt Ion: 96 Resp: 34271

Ion Ratio Lower Upper

96 100

61 149.8 105.5 195.9

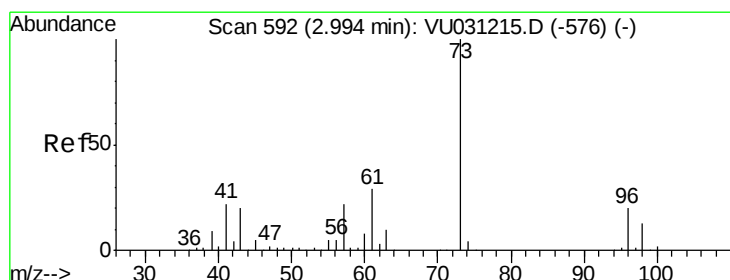
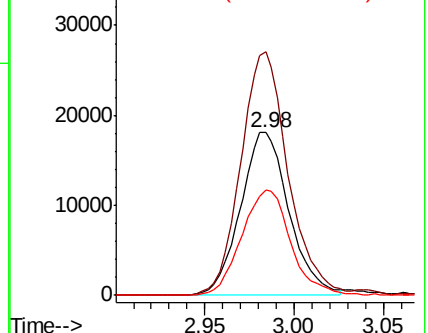
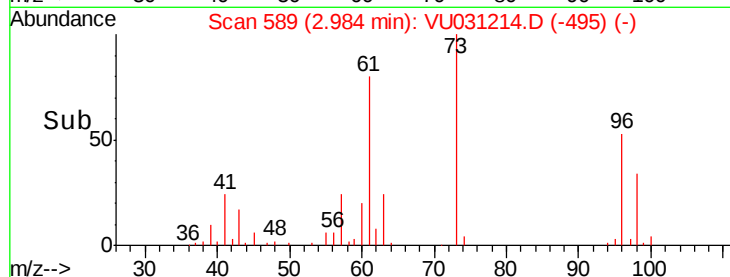
98 64.6 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU031214.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU031214.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU031214.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 8.830 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

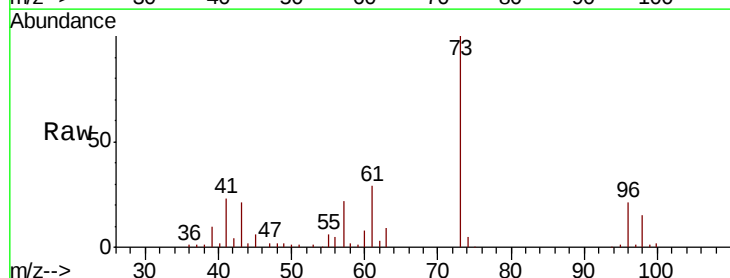
Tgt Ion: 73 Resp: 105839

Ion Ratio Lower Upper

73 100

43 21.1 15.6 23.4

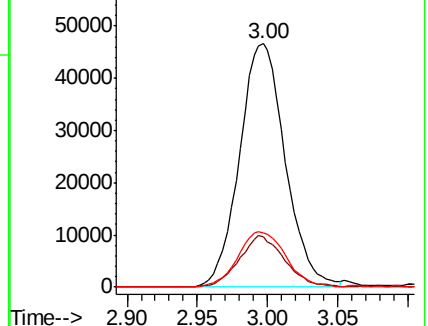
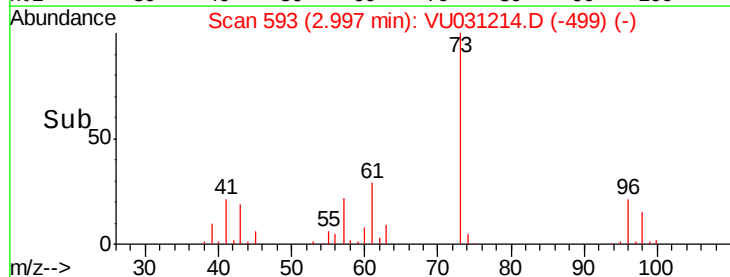
57 23.9 18.0 27.0

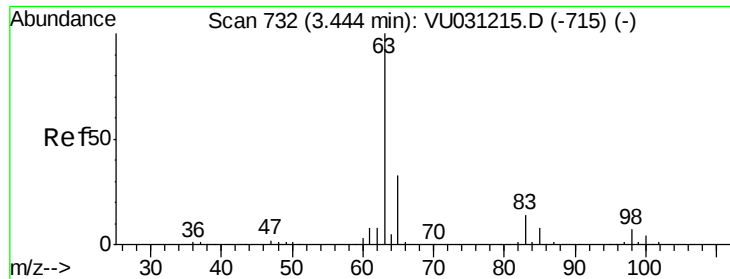


Abundance Ion 73.00 (72.70 to 73.70): VU031214.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031214.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031214.D (-499) (-)

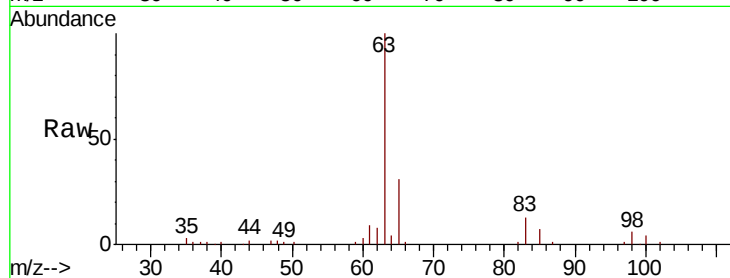




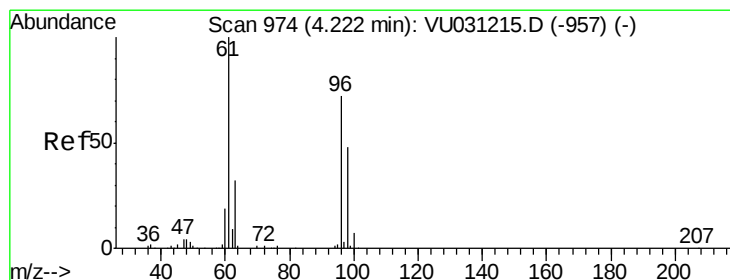
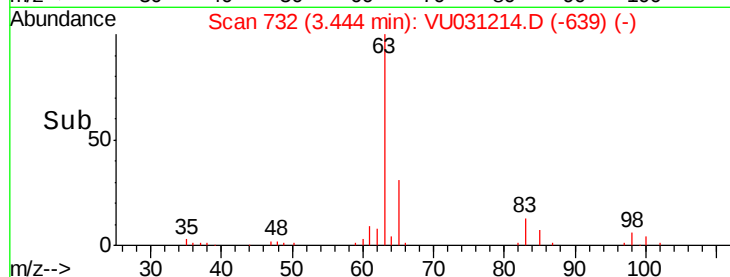
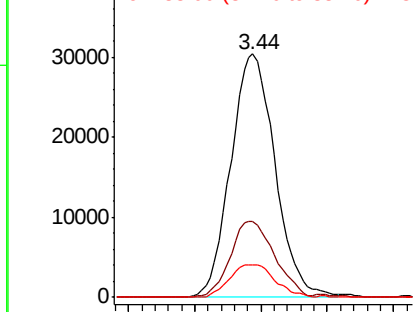
#19
 1,1-Dichloroethane
 Concen: 9.538 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

Tgt Ion: 63 Resp: 70592
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.8 42.4
 83 13.2 9.7 17.9

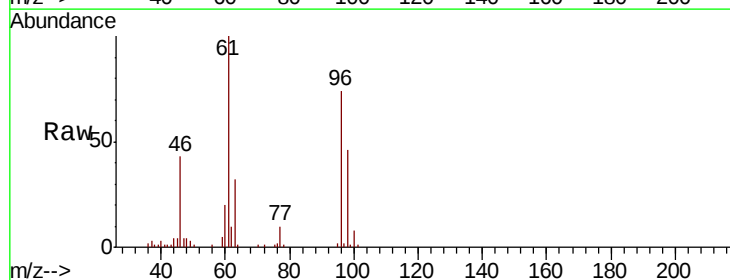


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

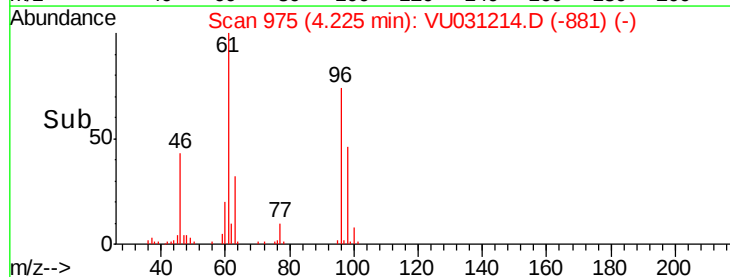
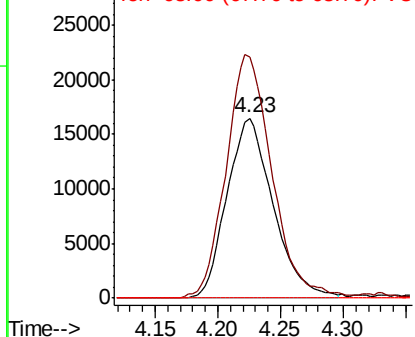


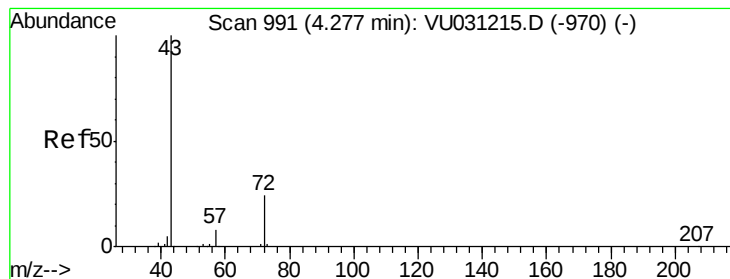
#20
 cis-1,2-Dichloroethene
 Concen: 10.272 ug/L
 RT: 4.23 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Tgt Ion: 96 Resp: 42089
 Ion Ratio Lower Upper
 96 100
 61 134.3 98.2 182.4
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 16.877 ug/L

RT: 4.28 min Scan# 992

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

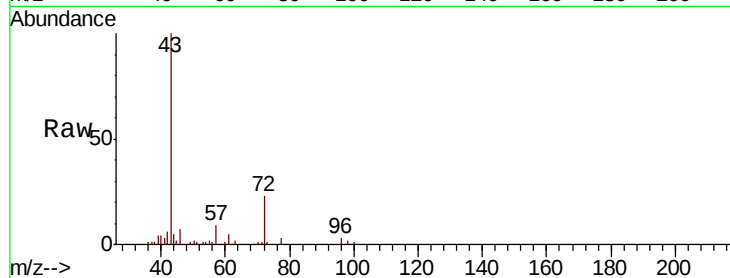
VSTD01048

Tgt Ion: 43 Resp: 69138

Ion Ratio Lower Upper

43 100

72 22.1 12.6 37.8



Abundance Ion 43.00 (42.70 to 43.70): VU031215.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU031215.D (-970) (-)

25000

20000

15000

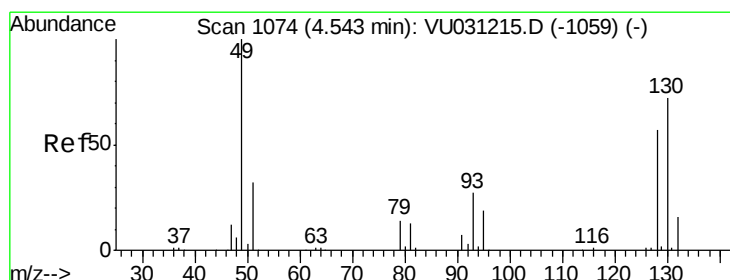
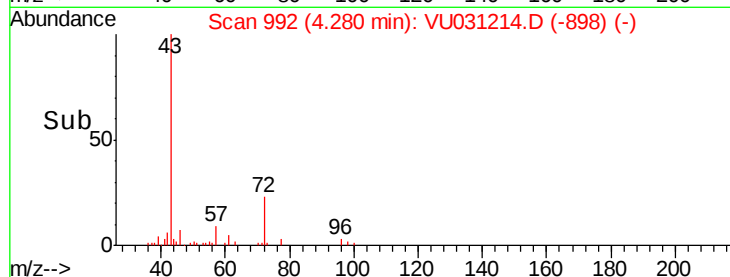
10000

5000

0

4.20 4.25 4.30 4.35 4.40

Time-->



#23

Bromochloromethane

Concen: 10.601 ug/L

RT: 4.55 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Tgt Ion: 128 Resp: 20639

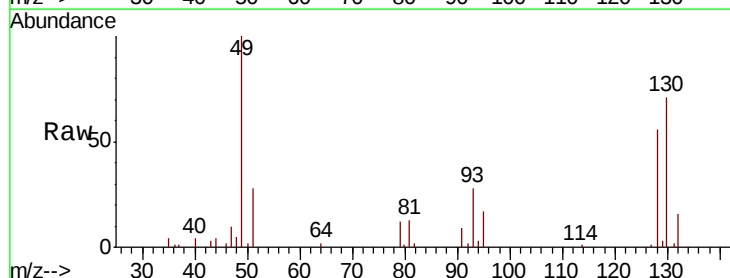
Ion Ratio Lower Upper

128 100

49 178.8 124.0 230.4

130 127.6 89.7 166.5

51 49.2 45.2 67.8



Abundance Ion 128.00 (127.70 to 128.70): VU031215.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU031215.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU031215.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU031215.D (-1059) (-)

25000

20000

15000

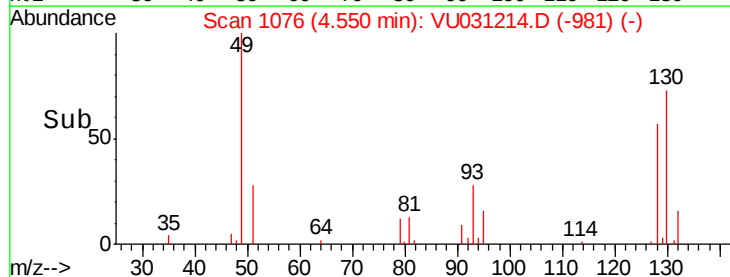
10000

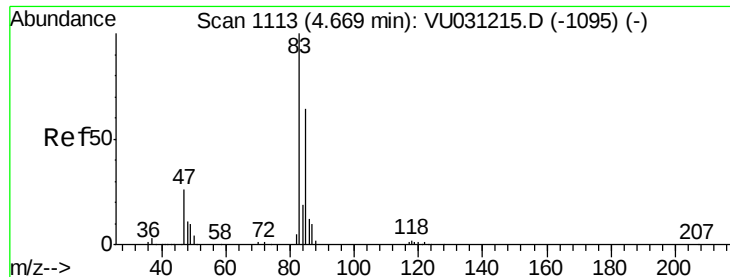
5000

0

4.50 4.55 4.60

Time-->





#25

Chloroform

Concen: 10.020 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

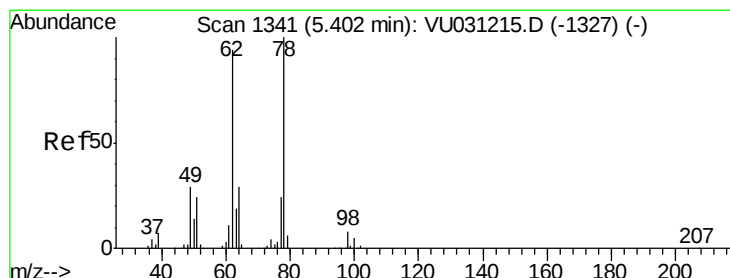
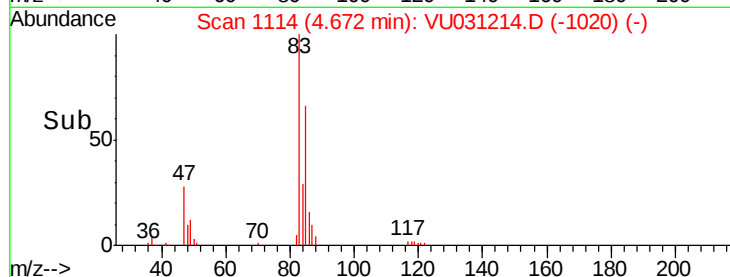
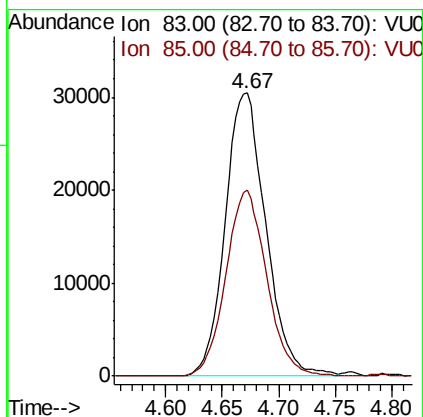
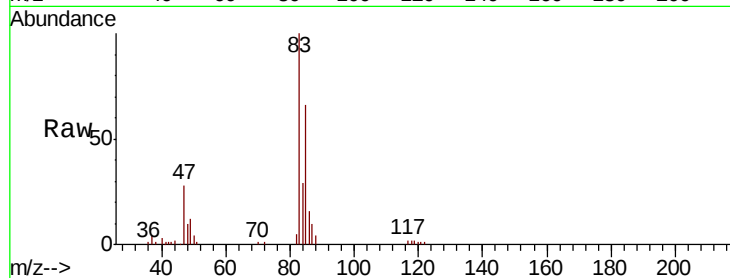
VSTD01048

Tgt Ion: 83 Resp: 76329

Ion Ratio Lower Upper

83 100

85 65.6 44.8 83.2



#27

1,2-Dichloroethane

Concen: 10.059 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU031214.D

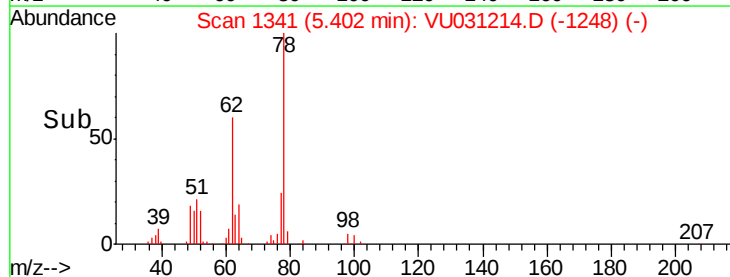
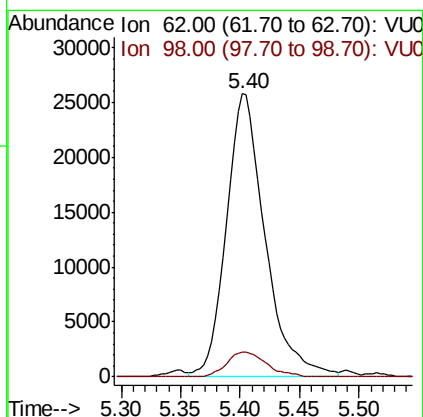
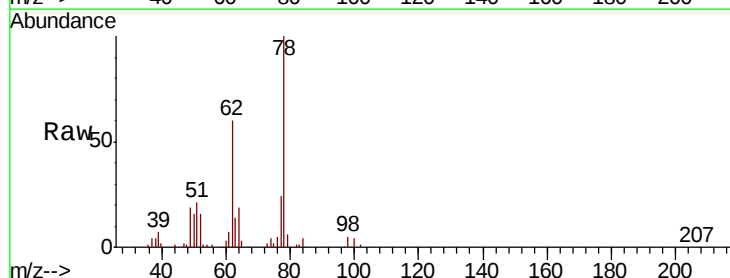
Acq: 16 Apr 2019 16:31

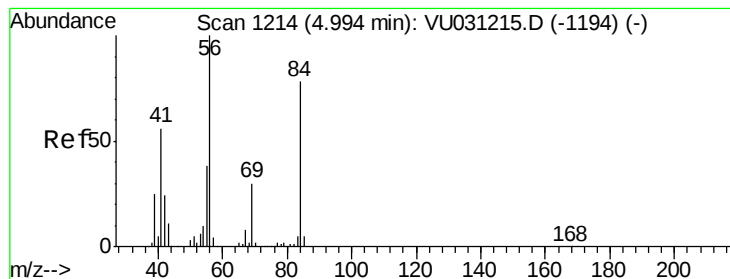
Tgt Ion: 62 Resp: 58157

Ion Ratio Lower Upper

62 100

98 8.6 7.0 10.6





#29

Cyclohexane

Concen: 8.811 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD01048

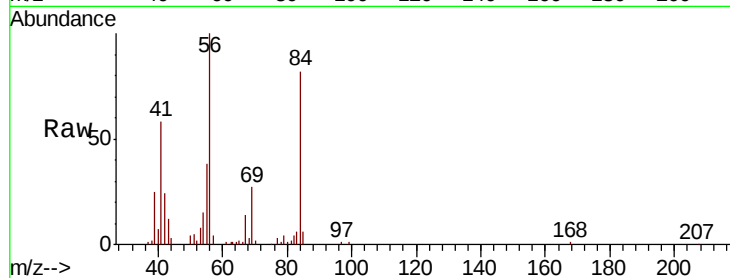
Tgt Ion: 56 Resp: 60696

Ion Ratio Lower Upper

56 100

69 28.7 23.0 34.6

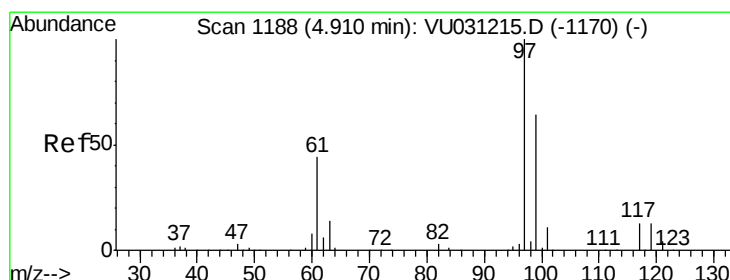
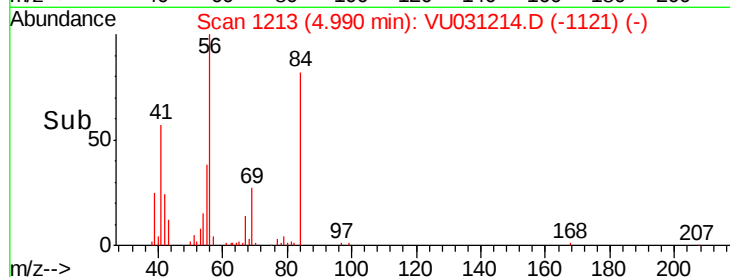
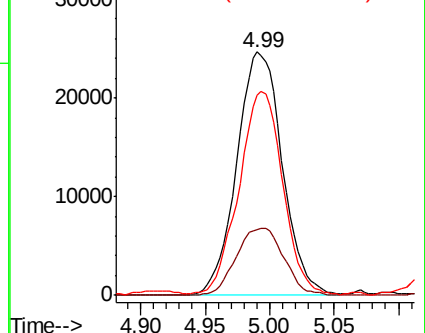
84 80.9 61.8 92.6



Abundance Ion 56.00 (55.70 to 56.70): VU031215.D (-1194) (-)

Ion 69.00 (68.70 to 69.70): VU031215.D (-1194) (-)

Ion 84.00 (83.70 to 84.70): VU031215.D (-1194) (-)



#30

1,1,1-Trichloroethane

Concen: 10.638 ug/L

RT: 4.91 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

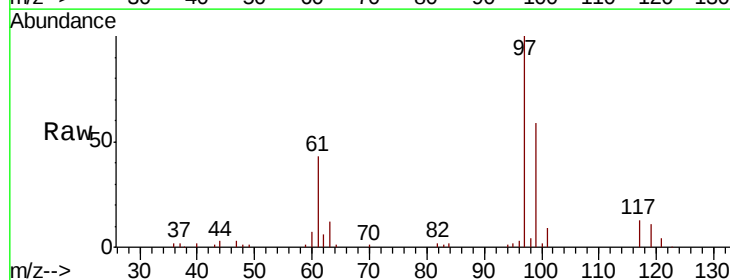
Tgt Ion: 97 Resp: 63321

Ion Ratio Lower Upper

97 100

99 62.3 51.4 77.2

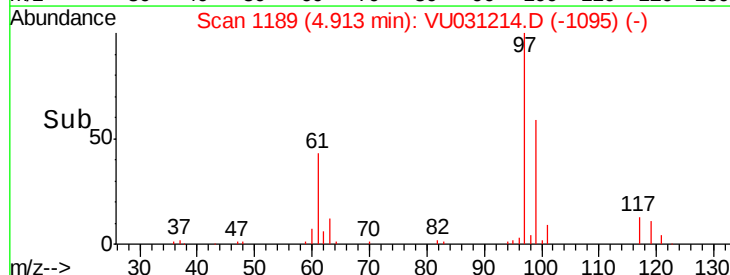
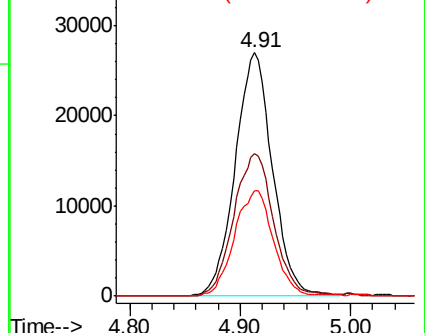
61 45.0 35.0 52.4

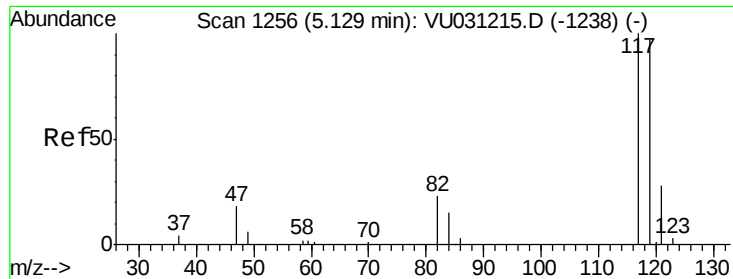


Abundance Ion 97.00 (96.70 to 97.70): VU031215.D (-1170) (-)

Ion 99.00 (98.70 to 99.70): VU031215.D (-1170) (-)

Ion 61.05 (60.75 to 61.75): VU031215.D (-1170) (-)





#31

Carbon tetrachloride

Concen: 10.598 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

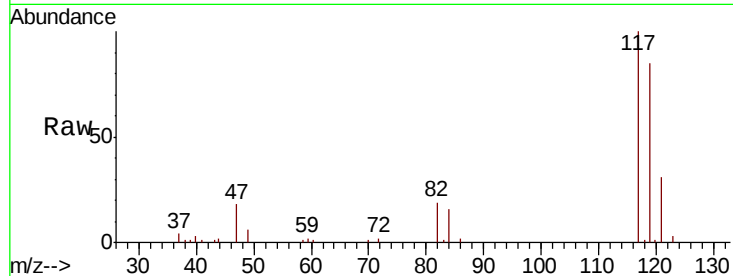
VSTD01048

Tgt Ion:117 Resp: 54410

Ion Ratio Lower Upper

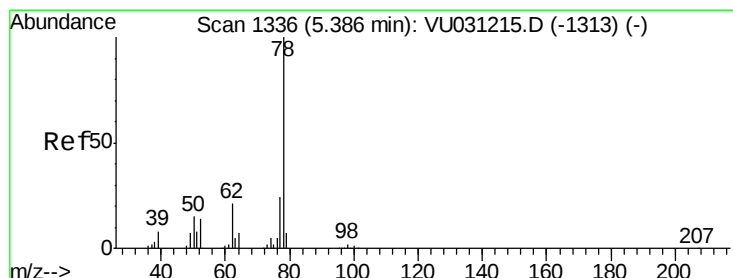
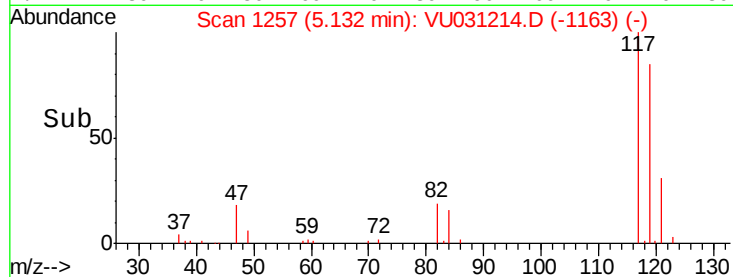
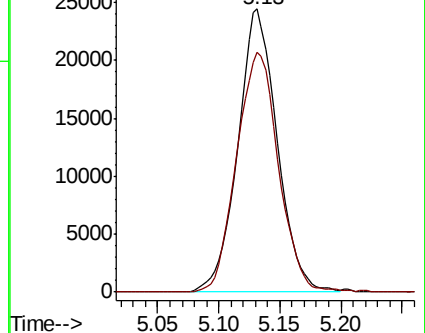
117 100

119 90.0 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 10.192 ug/L

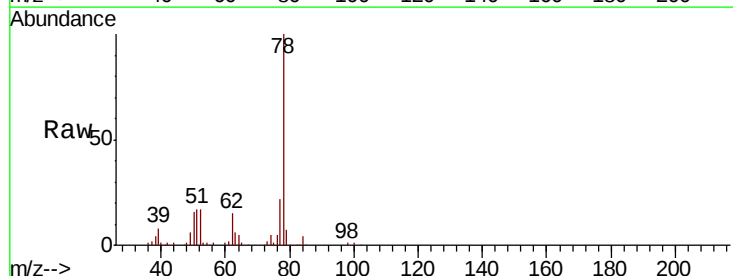
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

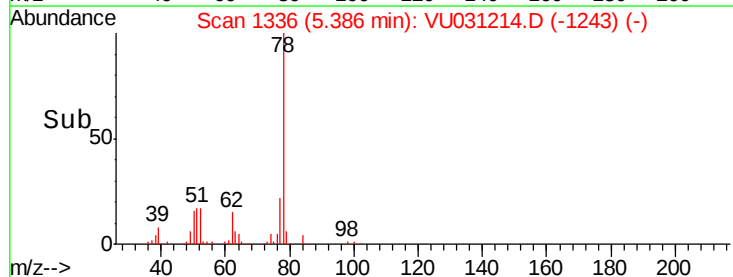
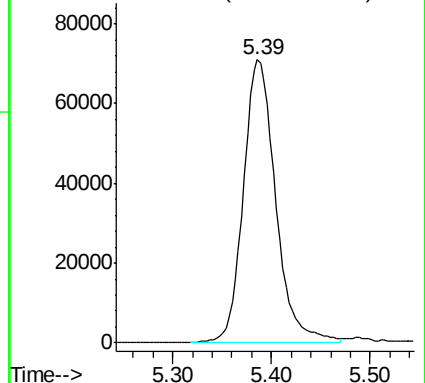
Lab File: VU031214.D

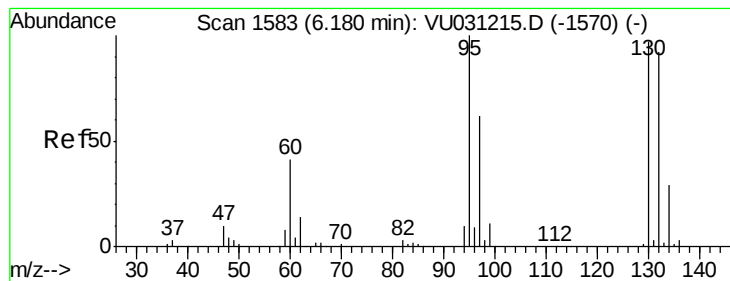
Acq: 16 Apr 2019 16:31

Tgt Ion: 78 Resp: 161085



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 10.512 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD01048

Tgt Ion: 95 Resp: 40764

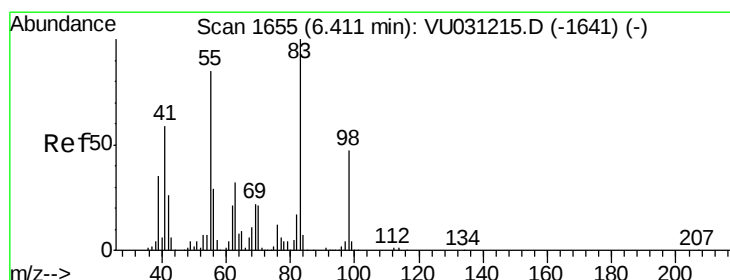
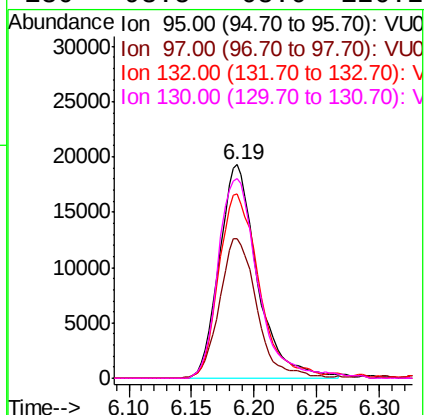
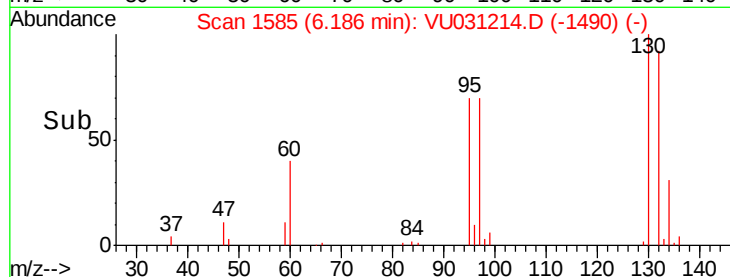
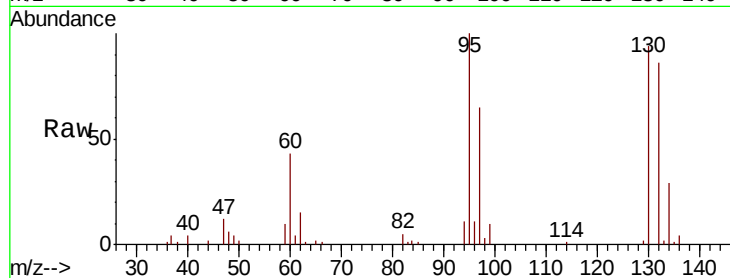
Ion Ratio Lower Upper

95 100

97 65.4 43.6 81.0

132 86.0 64.5 119.7

130 93.5 68.0 126.2



#35

Methylcyclohexane

Concen: 9.662 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

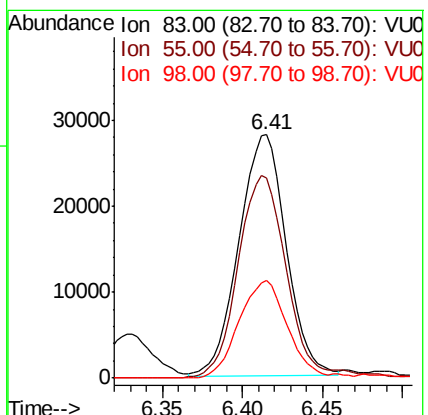
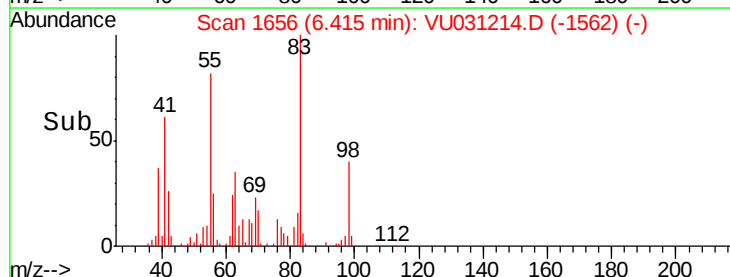
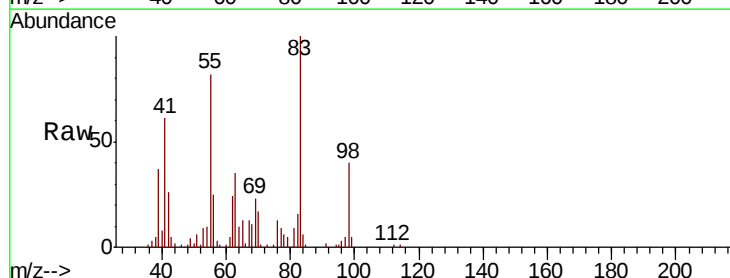
Tgt Ion: 83 Resp: 57234

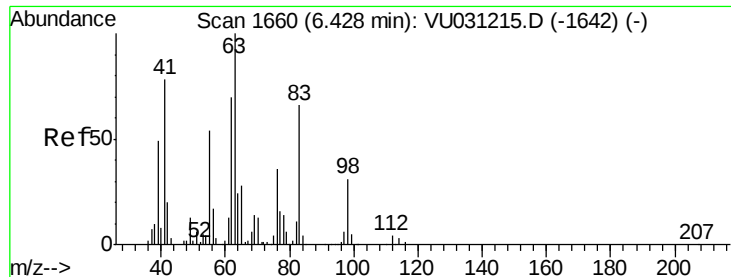
Ion Ratio Lower Upper

83 100

55 83.6 67.0 100.4

98 40.8 36.9 55.3

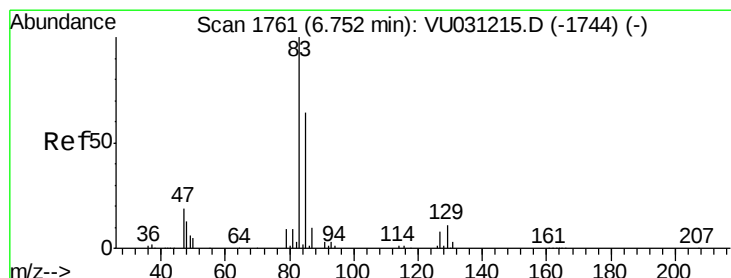
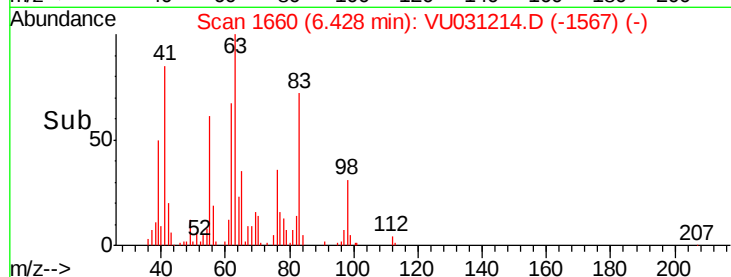
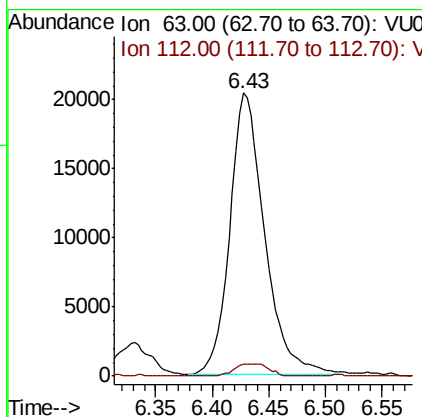
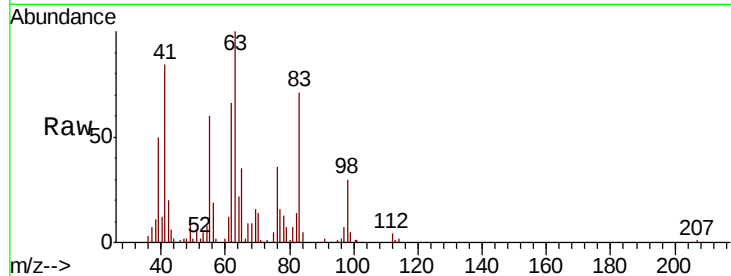




#37
 1,2-Dichloropropane
 Concen: 9.897 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

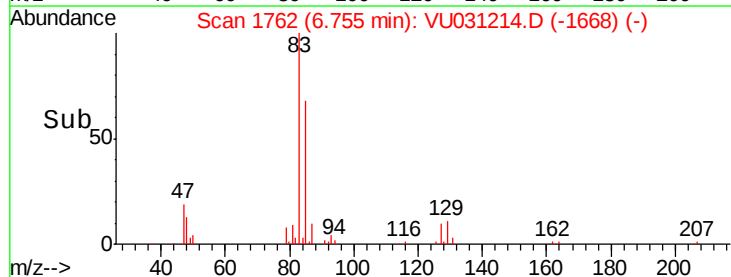
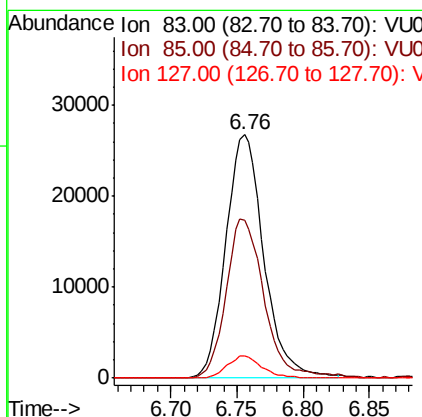
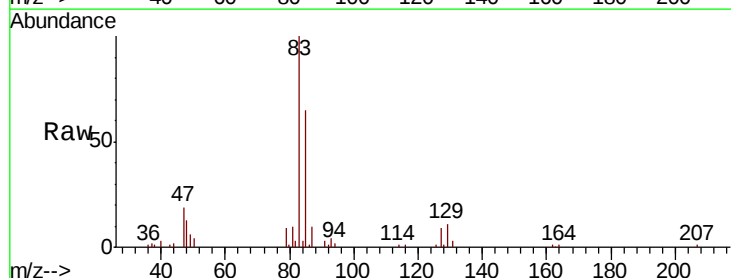
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

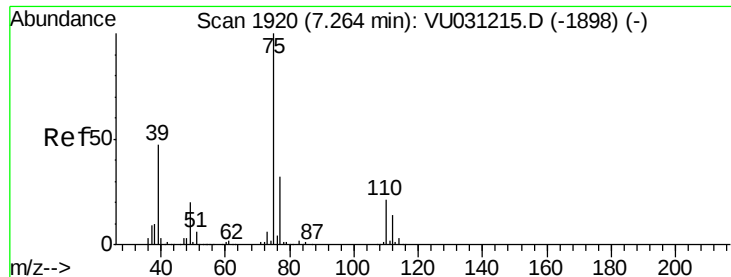
Tgt Ion: 63 Resp: 43537
 Ion Ratio Lower Upper
 63 100
 112 1.8 3.3 4.9#



#38
 Bromodichloromethane
 Concen: 9.929 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Tgt Ion: 83 Resp: 53360
 Ion Ratio Lower Upper
 83 100
 85 64.9 44.5 82.7
 127 9.2 6.6 9.8

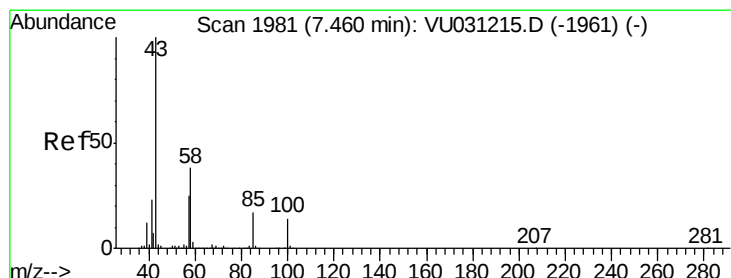
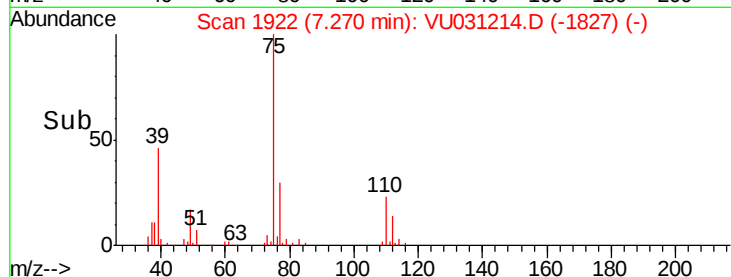
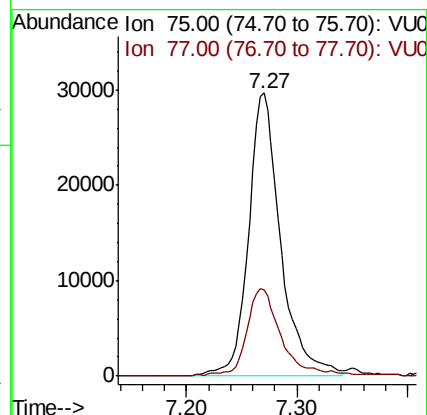
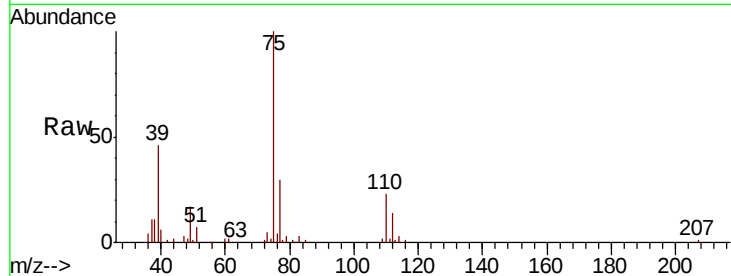




#39
 cis-1,3-Dichloropropene
 Concen: 9.547 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

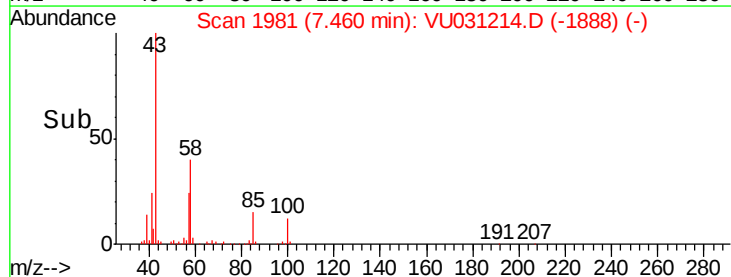
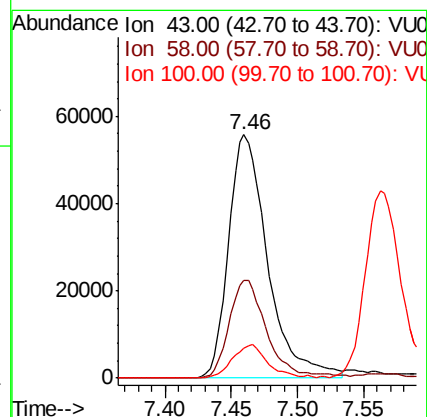
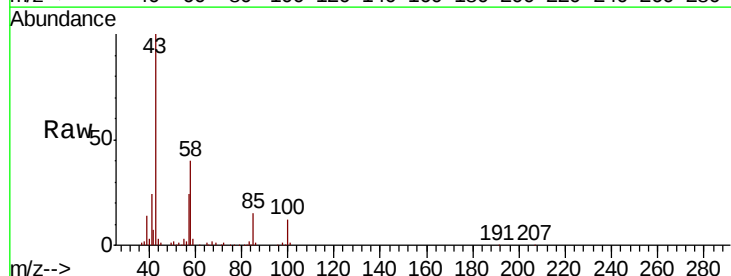
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

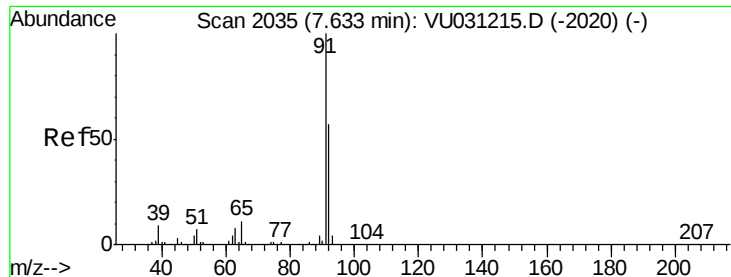
Tgt Ion: 75 Resp: 59940
 Ion Ratio Lower Upper
 75 100
 77 30.4 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 16.562 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Tgt Ion: 43 Resp: 114312
 Ion Ratio Lower Upper
 43 100
 58 37.6 31.0 46.4
 100 12.4 10.6 16.0





#42

Toluene

Concen: 9.539 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

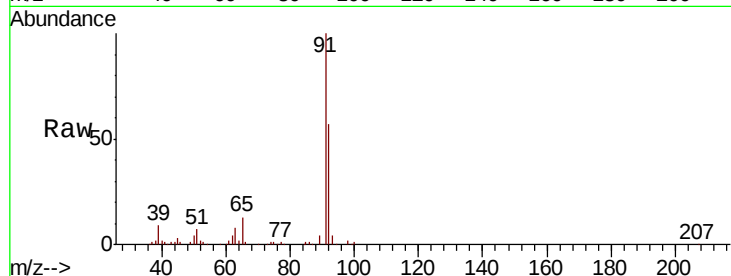
VSTD01048

Tgt Ion: 91 Resp: 152276

Ion Ratio Lower Upper

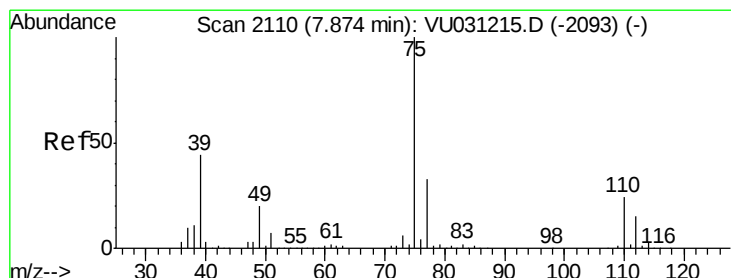
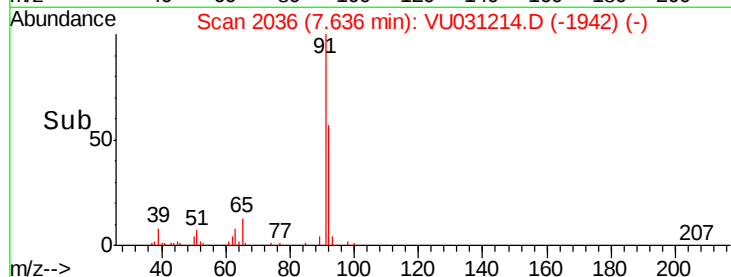
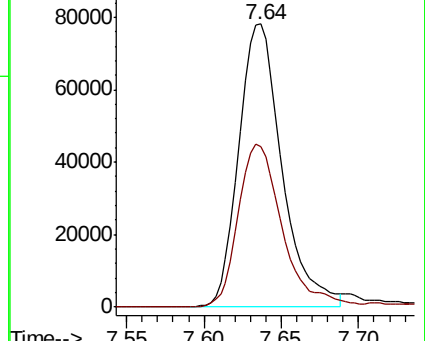
91 100

92 56.7 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VU031215.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031215.D (-2020) (-)



#44

trans-1,3-Dichloropropene

Concen: 9.099 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.01 min

Lab File: VU031214.D

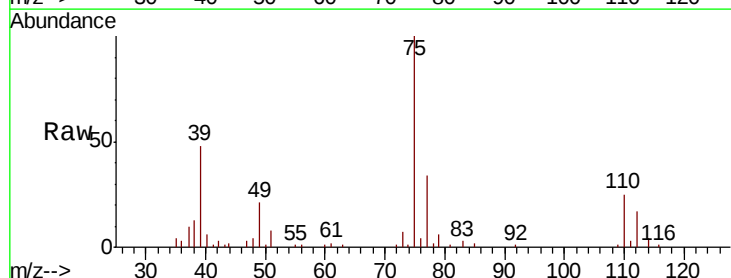
Acq: 16 Apr 2019 16:31

Tgt Ion: 75 Resp: 50519

Ion Ratio Lower Upper

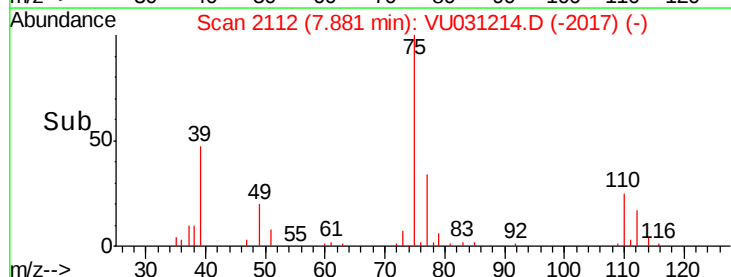
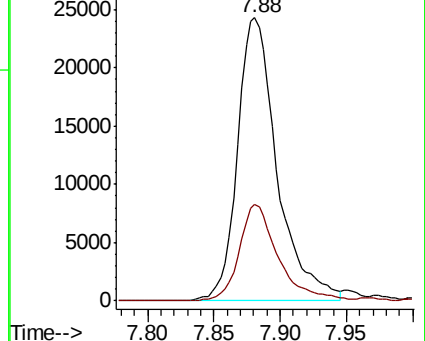
75 100

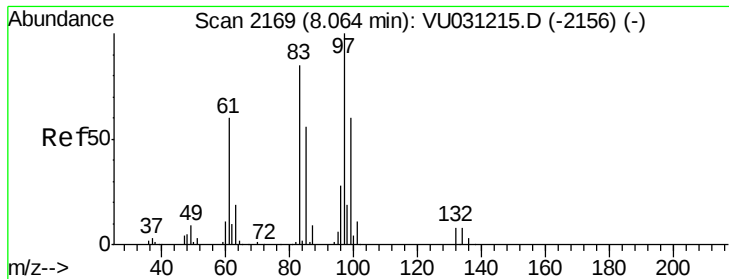
77 34.3 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU031215.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU031215.D (-2093) (-)

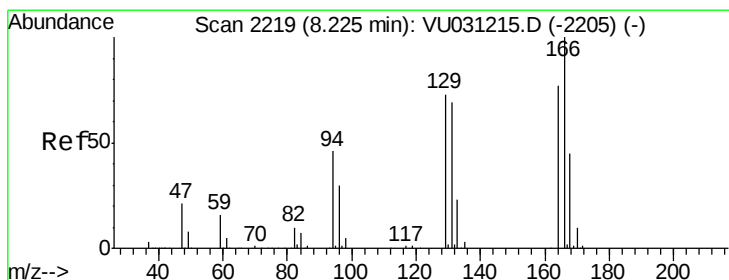
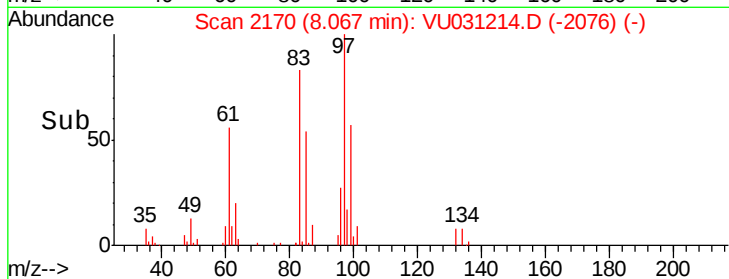
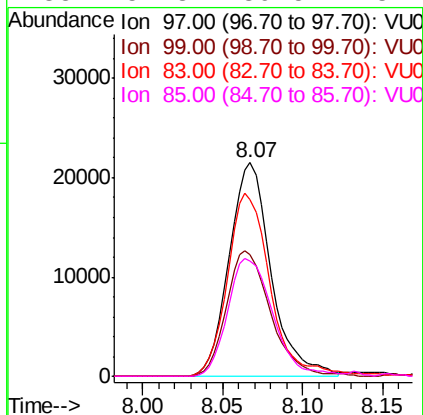
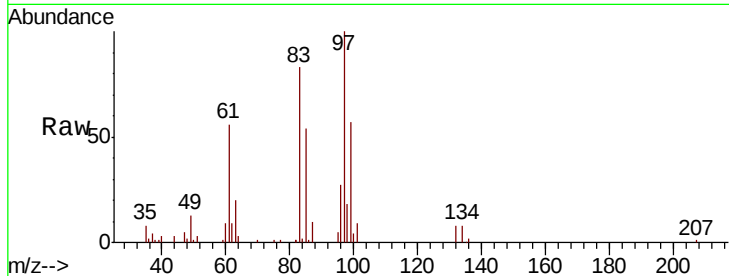




#45
 1,1,2-Trichloroethane
 Concen: 10.149 ug/L
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

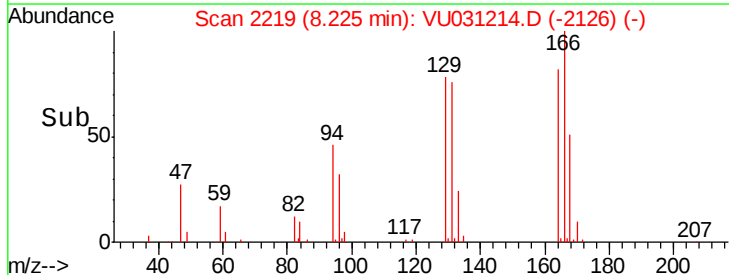
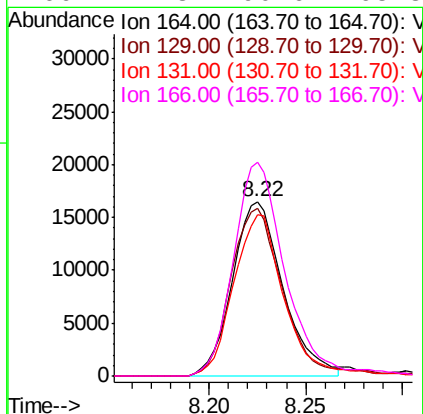
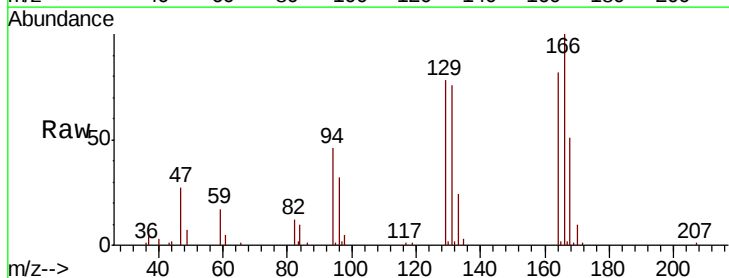
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

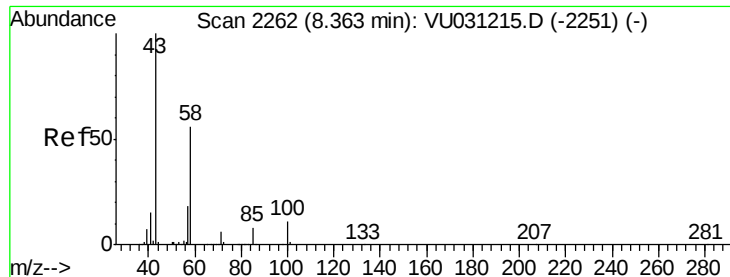
Tgt Ion:	97	Resp:	38506
Ion	Ratio	Lower	Upper
97	100		
99	56.7	42.2	78.4
83	82.9	59.8	111.1
85	54.3	39.5	73.4



#46
 Tetrachloroethene
 Concen: 10.556 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Tgt Ion:	164	Resp:	30094
Ion	Ratio	Lower	Upper
164	100		
129	95.8	66.5	123.5
131	92.4	62.3	115.7
166	122.3	90.6	168.3

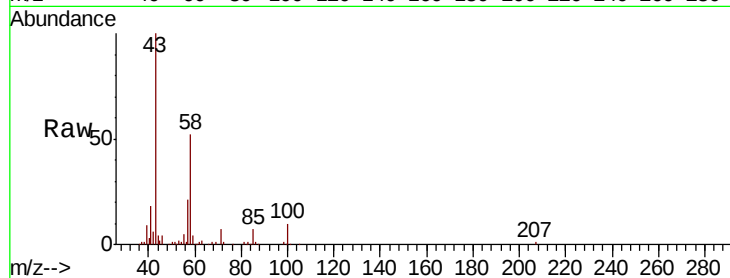




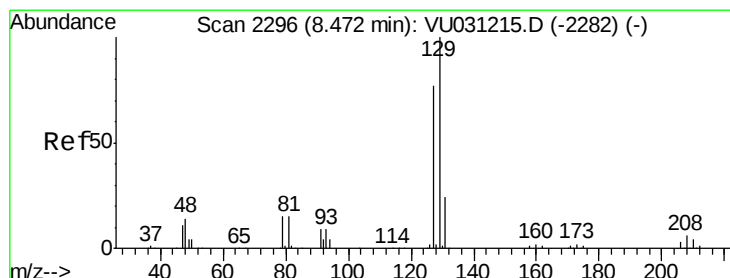
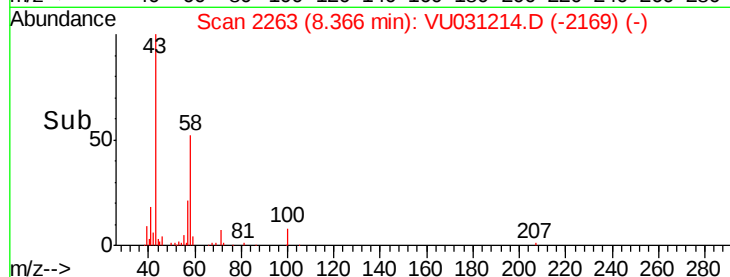
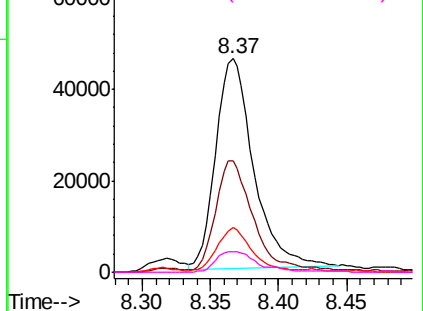
#48
2-Hexanone
Concen: 16.489 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VU031214.D
Acq: 16 Apr 2019 16:31

Instrument :
MSVOA_U
ClientSampleId :
VSTD01048

Tgt Ion:	43	Resp:	88440
Ion	Ratio	Lower	Upper
43	100		
58	54.0	44.9	67.3
57	18.4	15.1	22.7
100	10.7	8.6	13.0

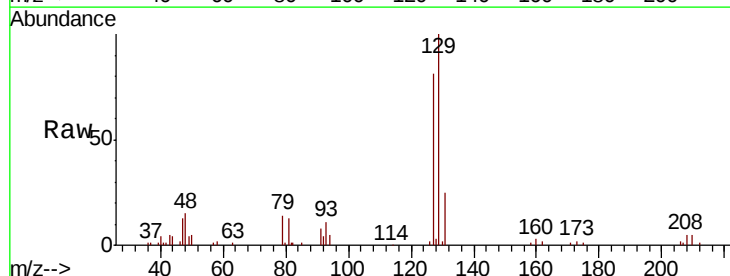


Abundance Ion 43.00 (42.70 to 43.70): VU031214.D (-2262) (-)
Ion 58.00 (57.70 to 58.70): VU031214.D (-2262) (-)
Ion 57.00 (56.70 to 57.70): VU031214.D (-2262) (-)
Ion 100.00 (99.70 to 100.70): VU031214.D (-2262) (-)

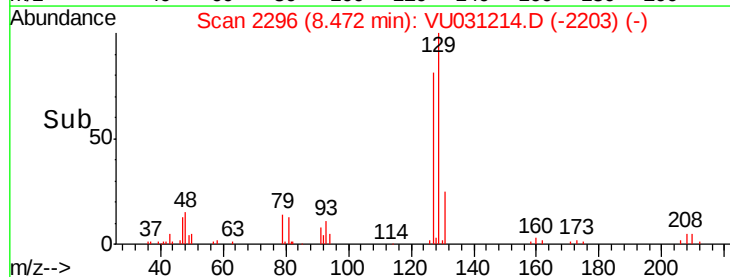
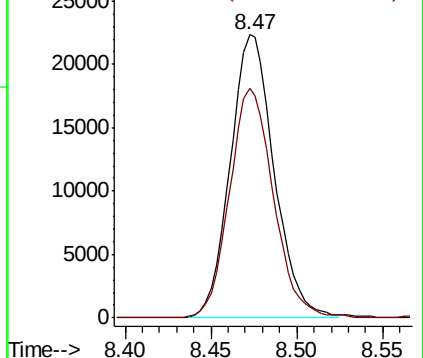


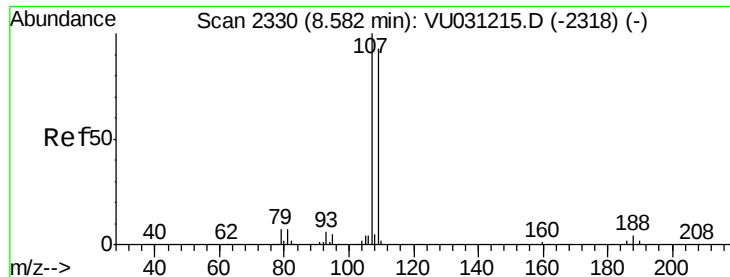
#49
Dibromochloromethane
Concen: 9.810 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031214.D
Acq: 16 Apr 2019 16:31

Tgt Ion:	129	Resp:	39565
Ion	Ratio	Lower	Upper
129	100		
127	81.2	53.6	99.6



Abundance Ion 129.00 (128.70 to 129.70): VU031214.D (-2295) (-)
Ion 127.00 (126.70 to 127.70): VU031214.D (-2295) (-)

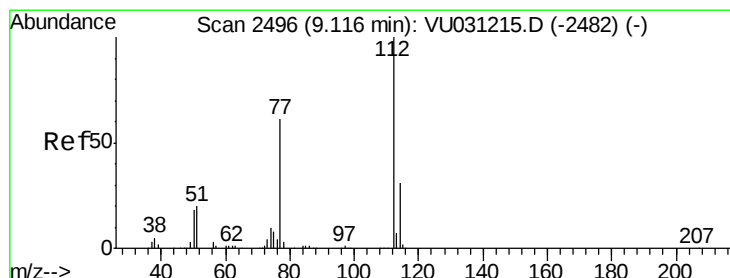
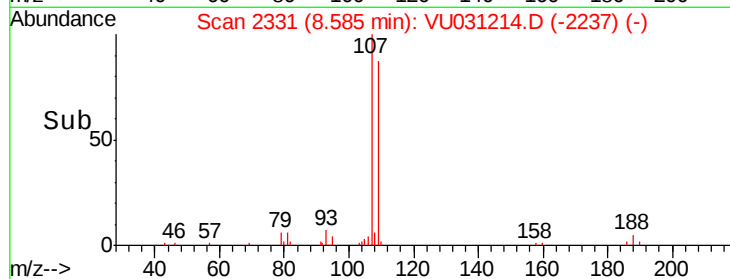
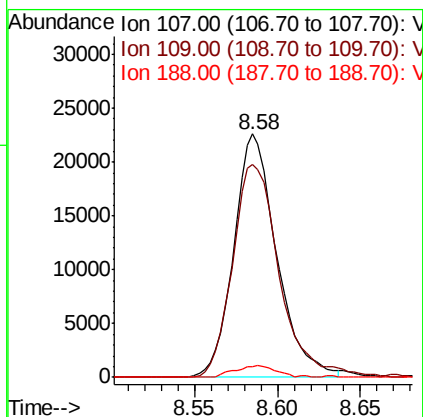
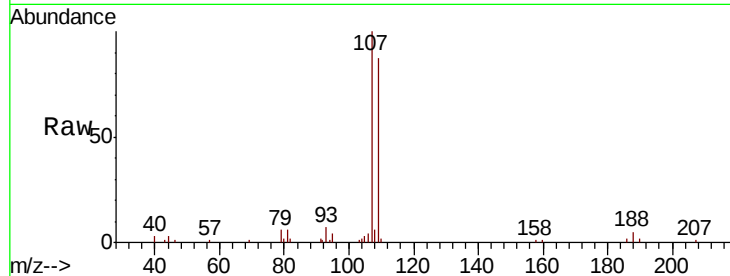




#50
1,2-Dibromoethane
Concen: 10.017 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU031214.D
Acq: 16 Apr 2019 16:31

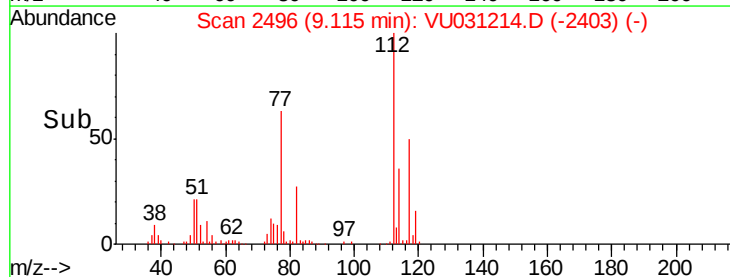
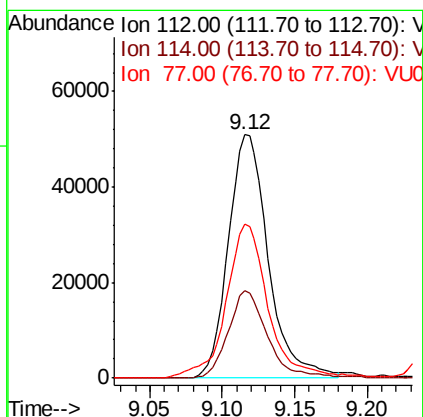
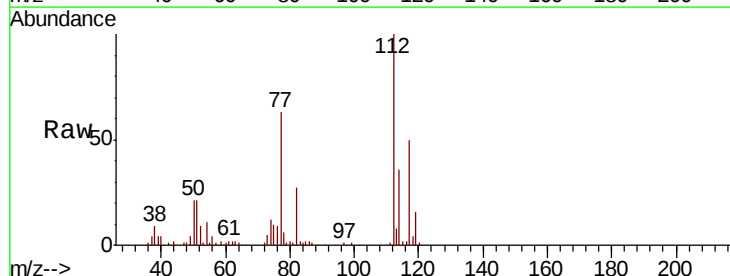
Instrument :
MSVOA_U
ClientSampleId :
VSTD01048

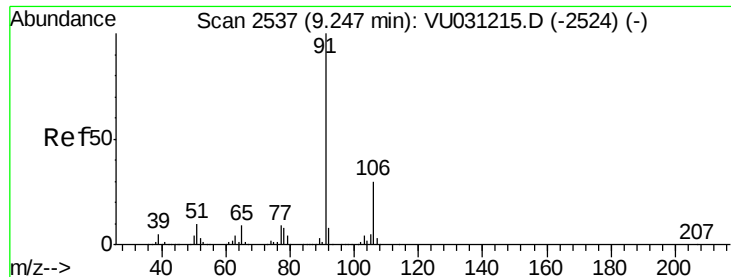
Tgt Ion:107 Resp: 40820
Ion Ratio Lower Upper
107 100
109 87.4 65.0 120.8
188 4.6 2.9 4.3#



#51
Chlorobenzene
Concen: 9.902 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU031214.D
Acq: 16 Apr 2019 16:31

Tgt Ion:112 Resp: 97753
Ion Ratio Lower Upper
112 100
114 36.1 21.6 40.0
77 63.1 49.0 73.4





#52

Ethylbenzene

Concen: 9.491 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

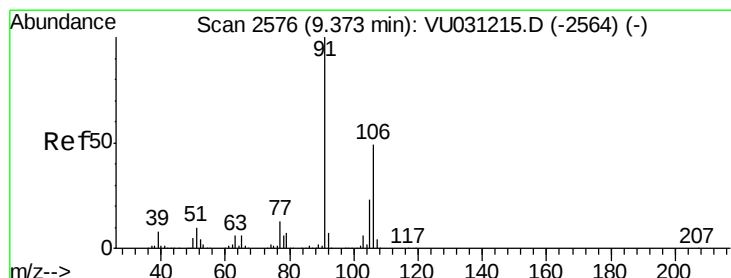
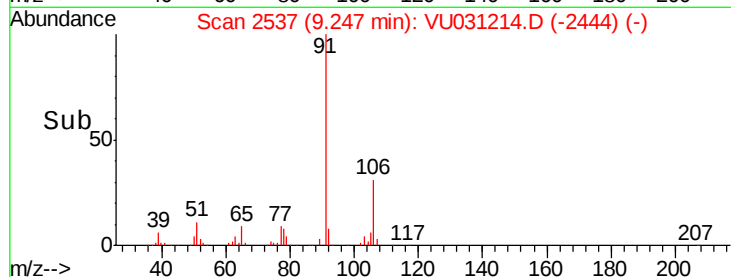
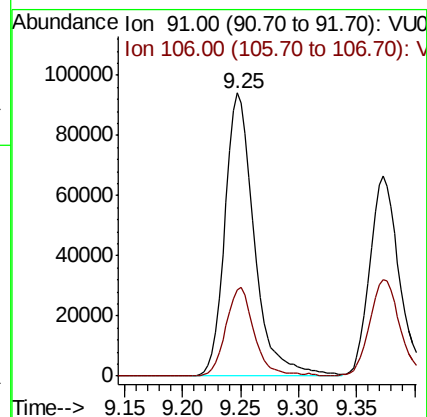
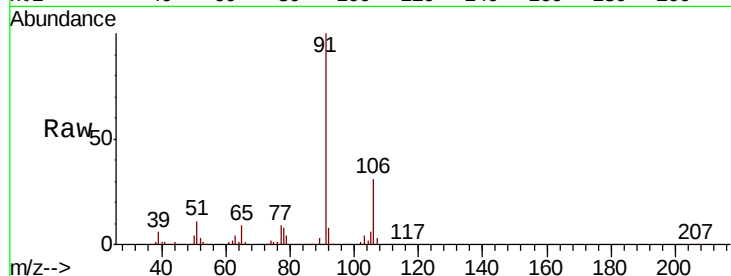
VSTD01048

Tgt Ion: 91 Resp: 165353

Ion Ratio Lower Upper

91 100

106 30.5 20.9 38.7



#53

m,p-Xylene

Concen: 9.949 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031214.D

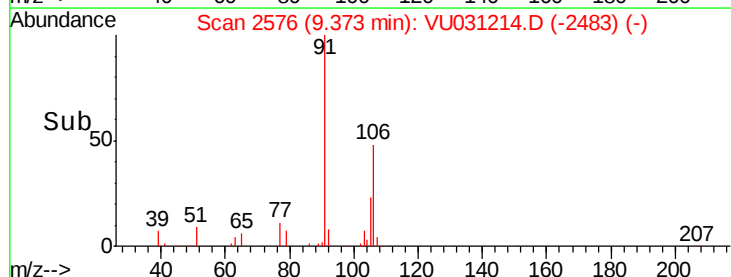
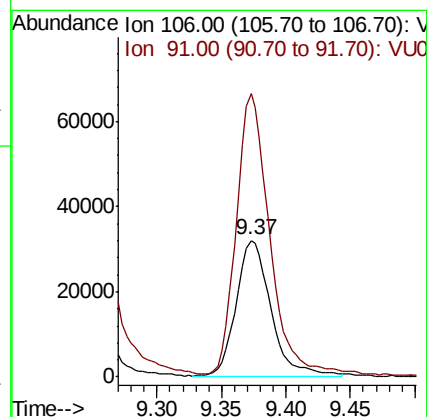
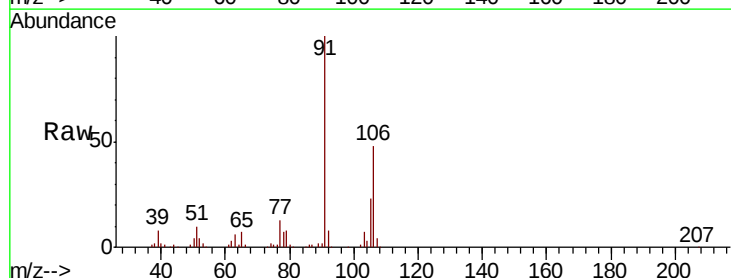
Acq: 16 Apr 2019 16:31

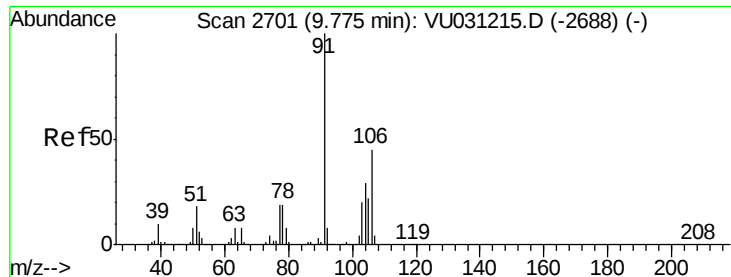
Tgt Ion: 106 Resp: 60820

Ion Ratio Lower Upper

106 100

91 207.3 144.5 268.4





#54

o-xylene

Concen: 9.522 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

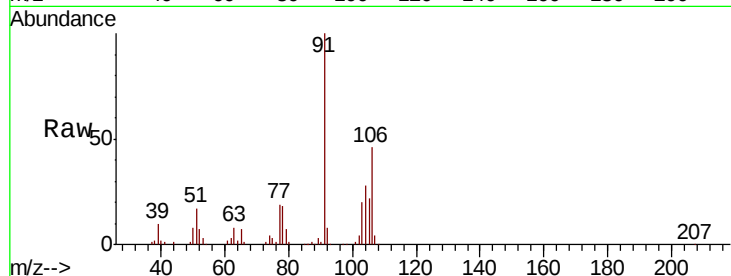
VSTD01048

Tgt Ion:106 Resp: 57966

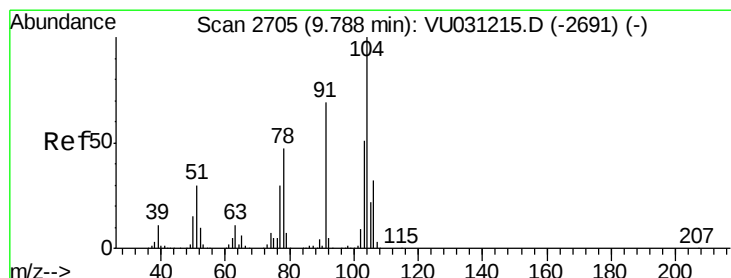
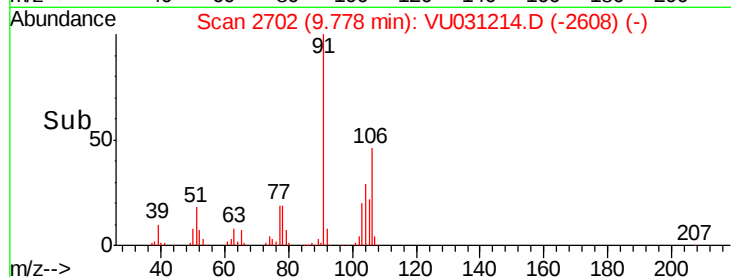
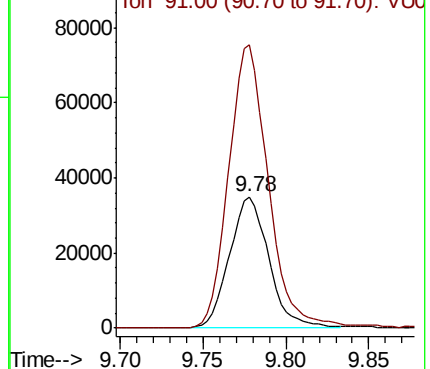
Ion Ratio Lower Upper

106 100

91 215.9 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 8.514 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU031214.D

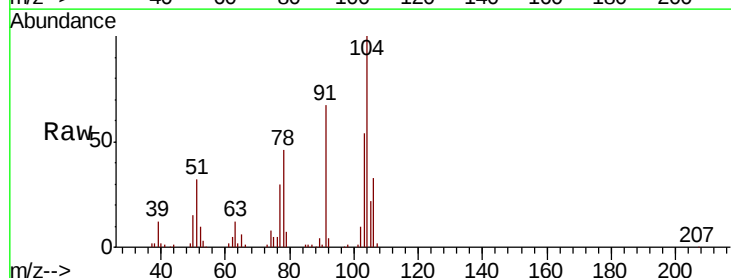
Acq: 16 Apr 2019 16:31

Tgt Ion:104 Resp: 88480

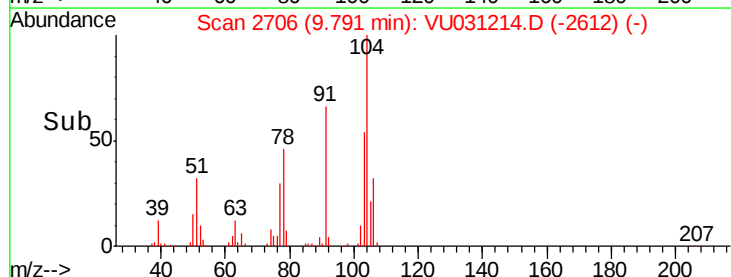
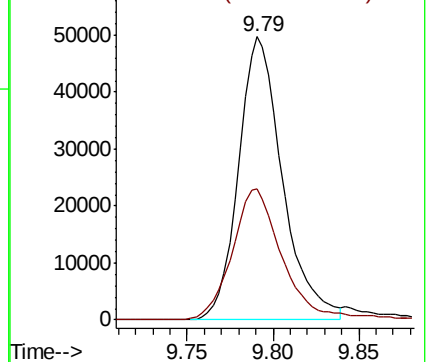
Ion Ratio Lower Upper

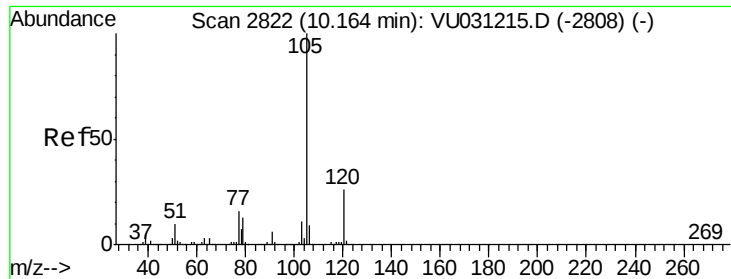
104 100

78 46.1 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V





#56

Isopropylbenzene

Concen: 9.217 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD01048

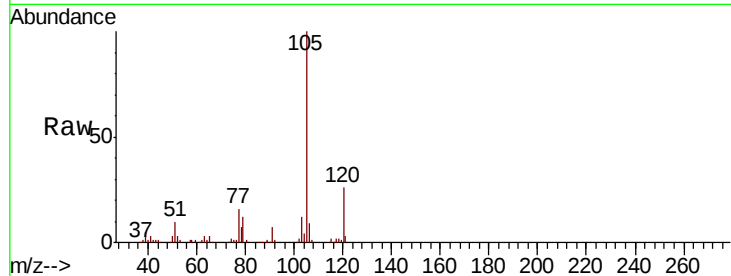
Tgt Ion: 105 Resp: 146939

Ion Ratio Lower Upper

105 100

120 26.2 20.6 31.0

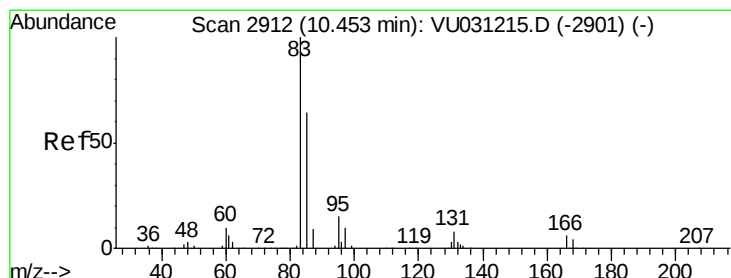
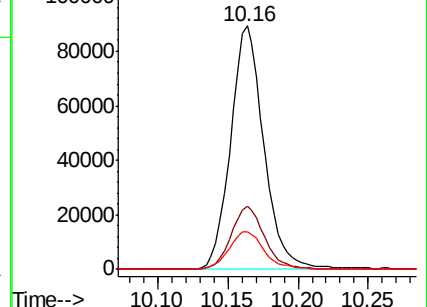
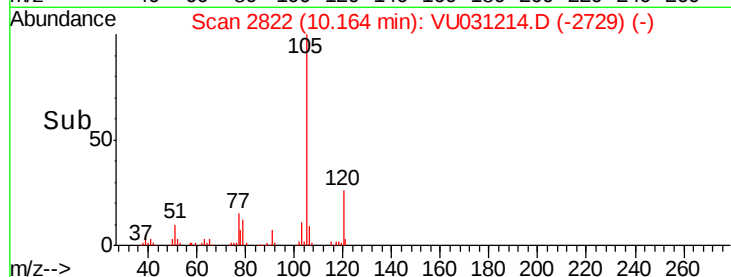
77 16.5 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 9.856 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

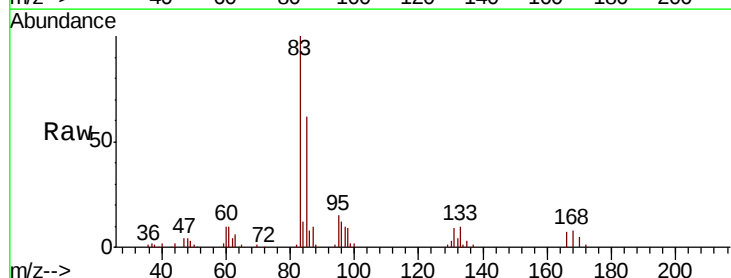
Tgt Ion: 83 Resp: 66671

Ion Ratio Lower Upper

83 100

85 62.2 45.4 84.4

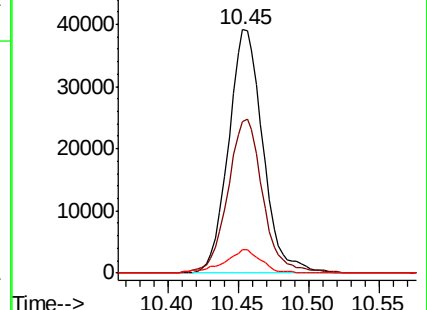
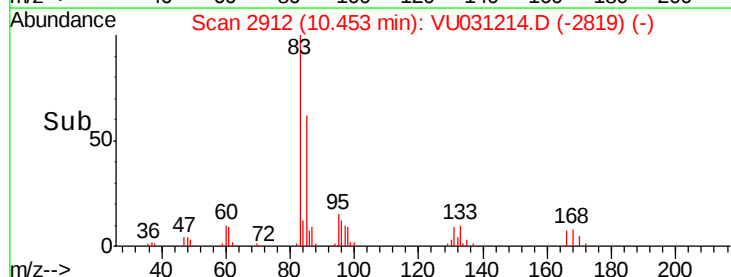
131 9.5 7.4 11.0

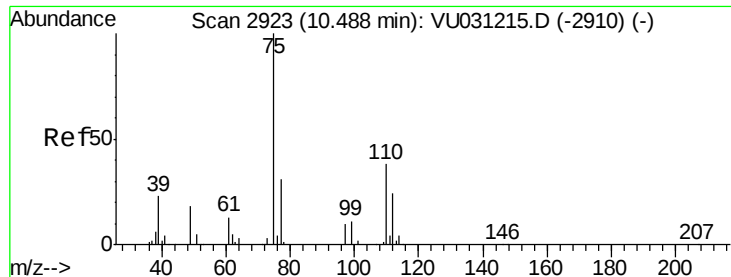


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

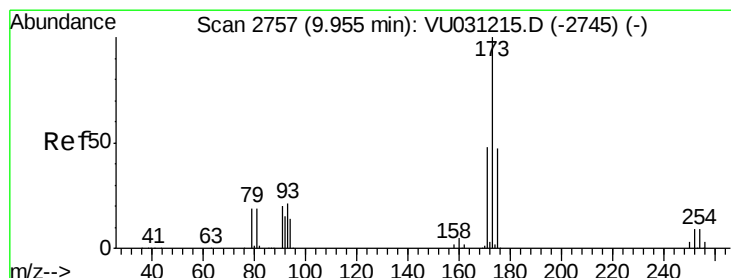
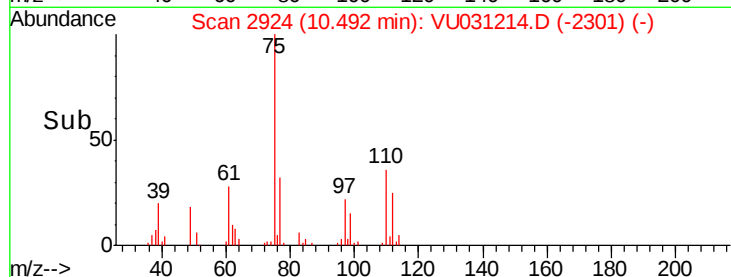
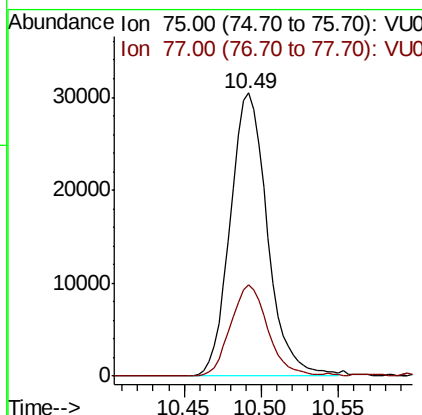
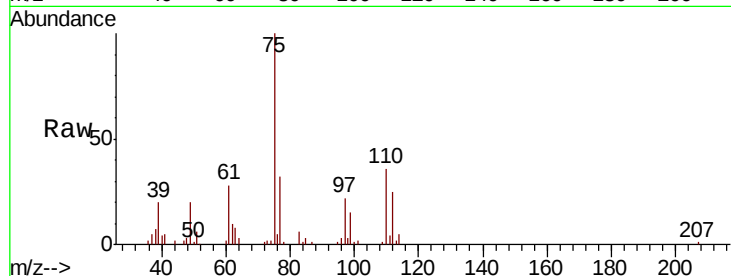




#59
 1,2,3-Trichloropropane
 Concen: 9.693 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

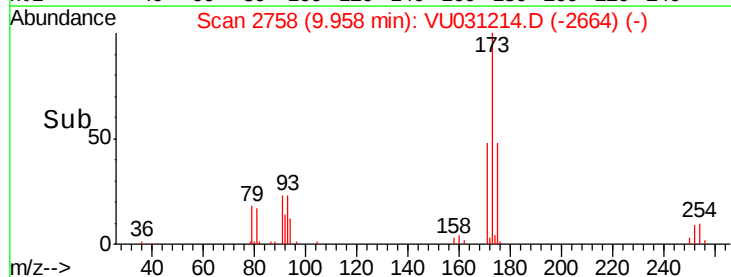
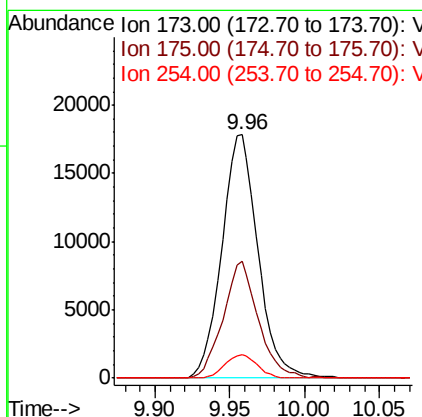
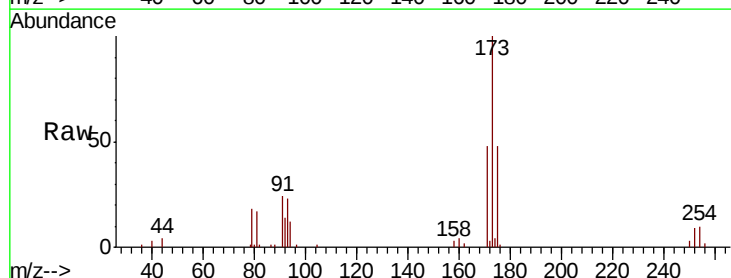
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

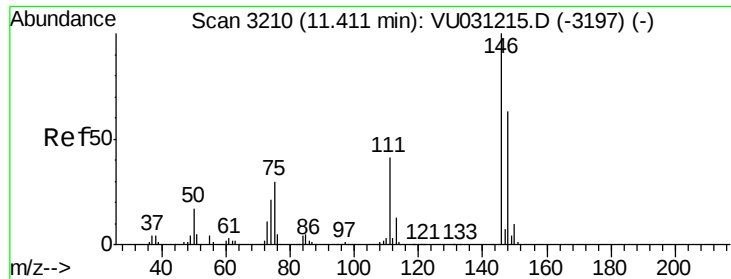
Tgt Ion: 75 Resp: 50899
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.4 38.2



#61
 Bromoform
 Concen: 10.936 ug/L
 RT: 9.96 min Scan# 2758
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Tgt Ion: 173 Resp: 30066
 Ion Ratio Lower Upper
 173 100
 175 46.2 37.8 56.8
 254 8.5 7.2 10.8

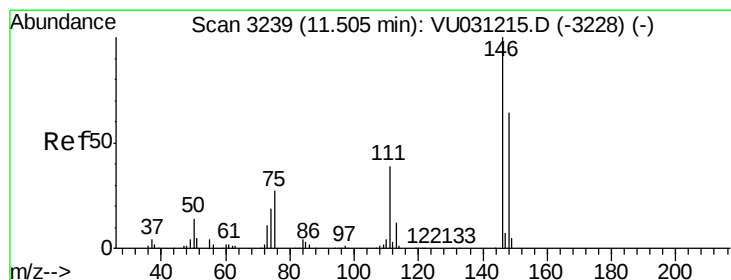
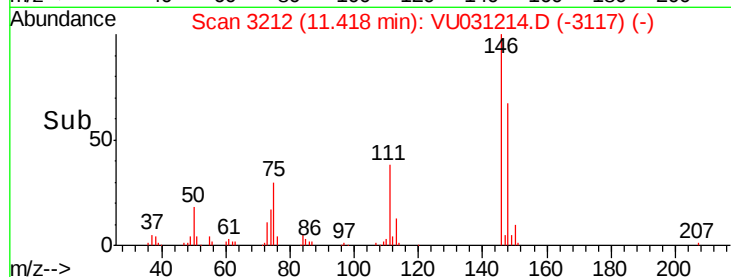
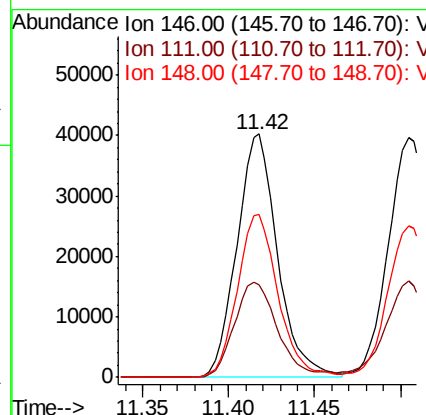
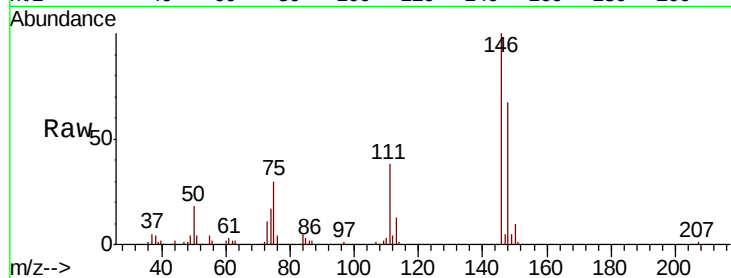




#62
 1,3-Dichlorobenzene
 Concen: 10.127 ug/L
 RT: 11.42 min Scan# 3212
 Delta R.T. 0.01 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

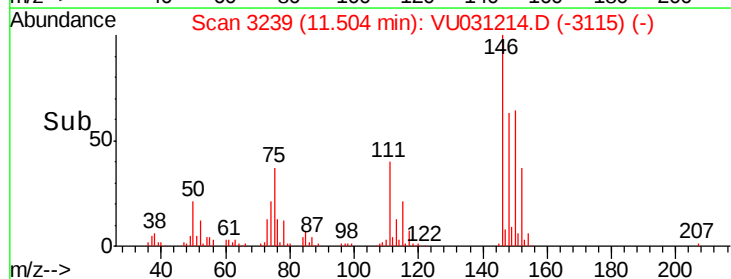
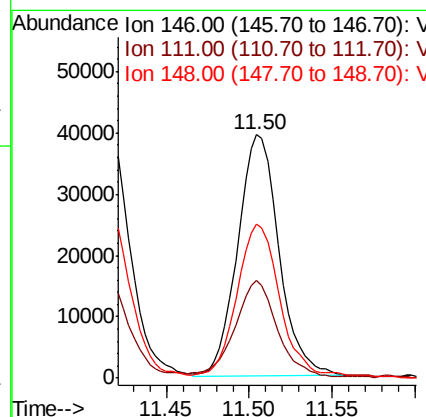
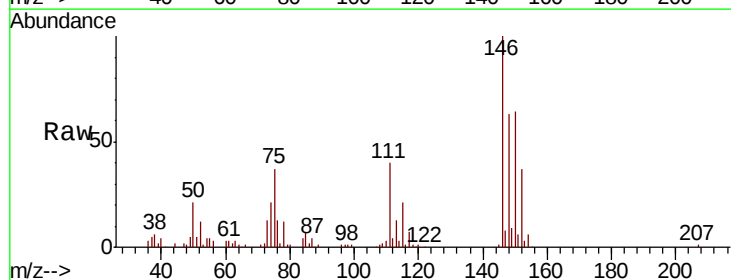
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

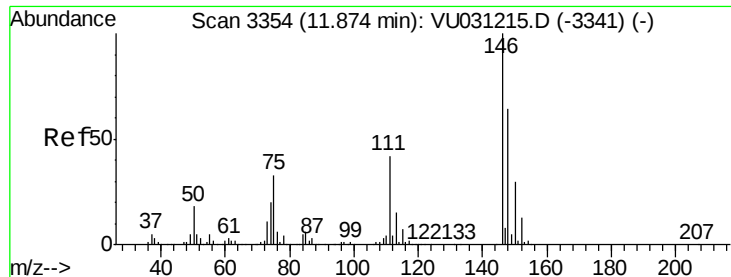
Tgt Ion:146 Resp: 66079
 Ion Ratio Lower Upper
 146 100
 111 38.0 28.7 53.3
 148 67.0 44.0 81.6



#63
 1,4-Dichlorobenzene
 Concen: 10.223 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Tgt Ion:146 Resp: 68165
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.4 50.8
 148 63.2 44.5 82.7

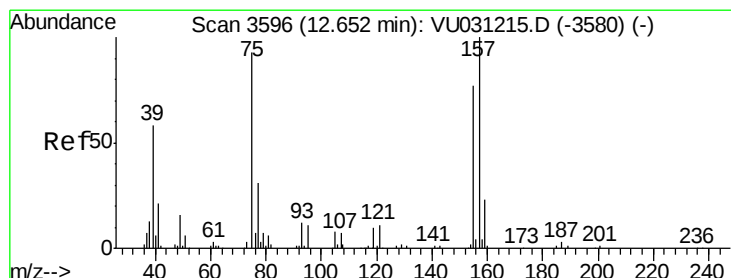
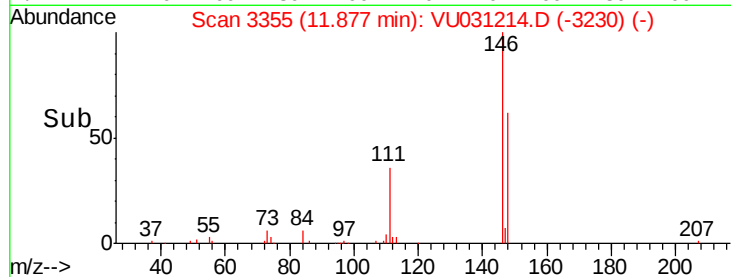
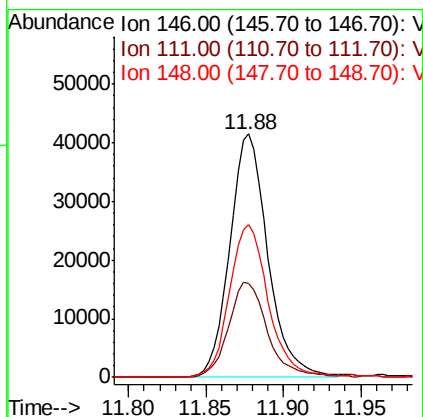
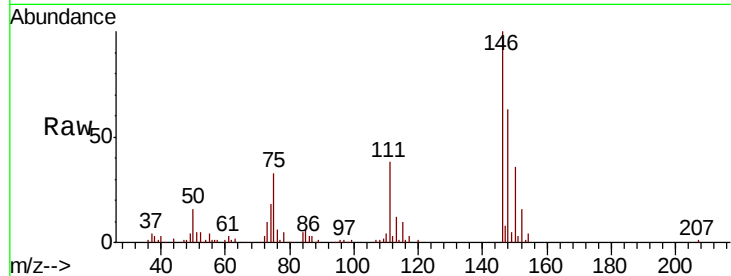




#65
 1,2-Dichlorobenzene
 Concen: 10.753 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

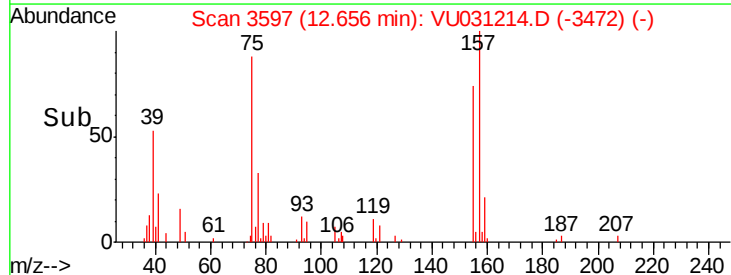
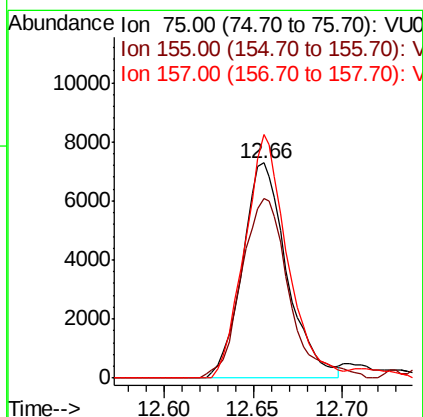
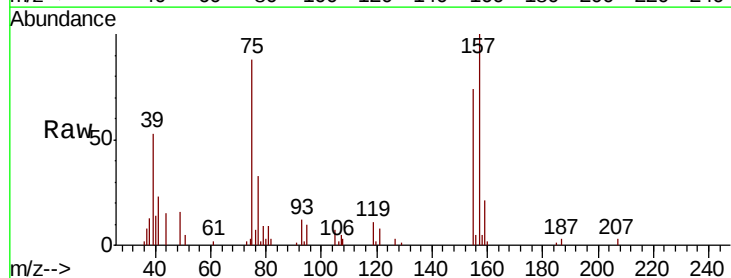
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

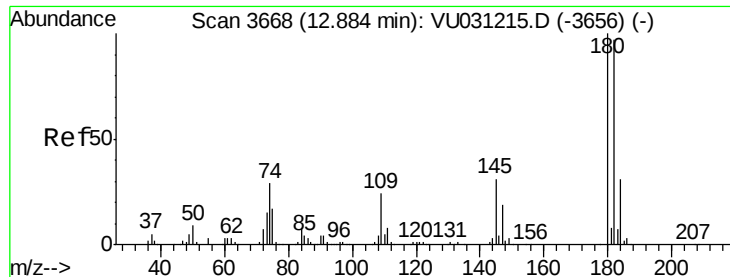
Tgt Ion: 146 Resp: 70856
 Ion Ratio Lower Upper
 146 100
 111 38.5 33.4 50.2
 148 62.7 51.3 76.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 9.303 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Tgt Ion: 75 Resp: 12697
 Ion Ratio Lower Upper
 75 100
 155 83.7 66.7 100.1
 157 113.2 86.5 129.7

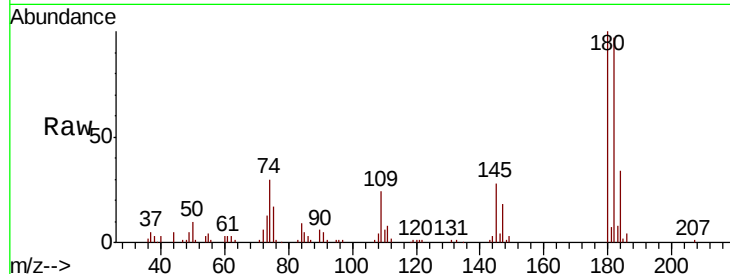




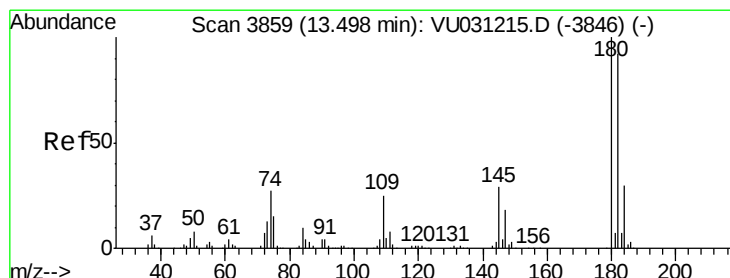
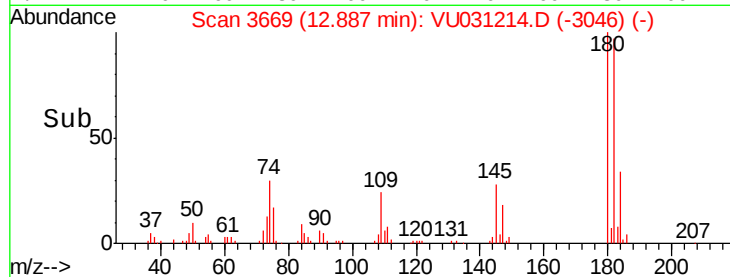
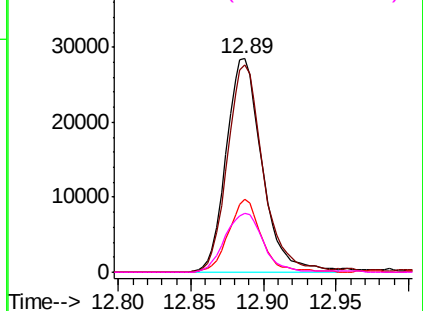
#67
 1,3,5-Trichlorobenzene
 Concen: 10.220 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01048

Tgt Ion:180 Resp: 49089
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.7 115.1
 184 30.7 24.2 36.4
 145 29.2 23.9 35.9

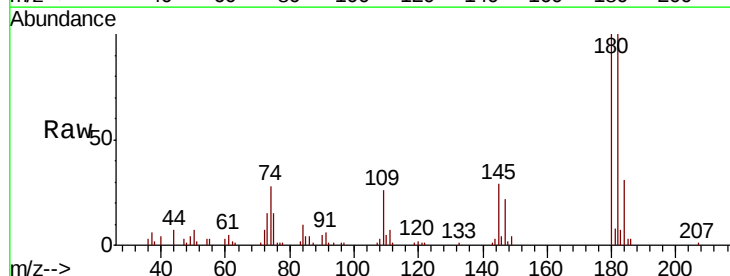


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

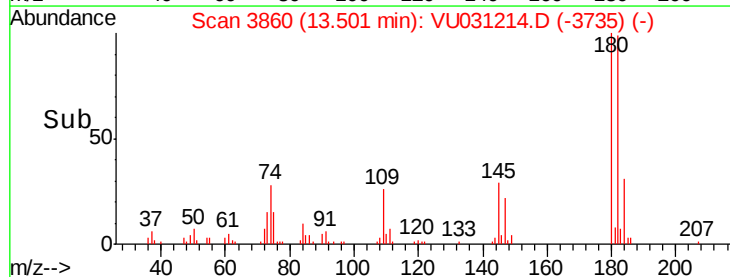
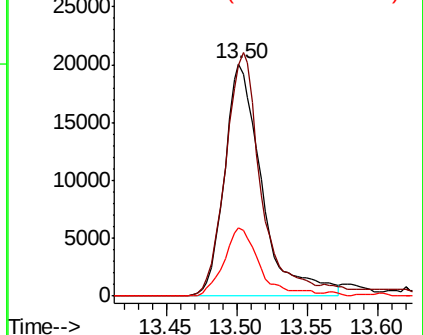


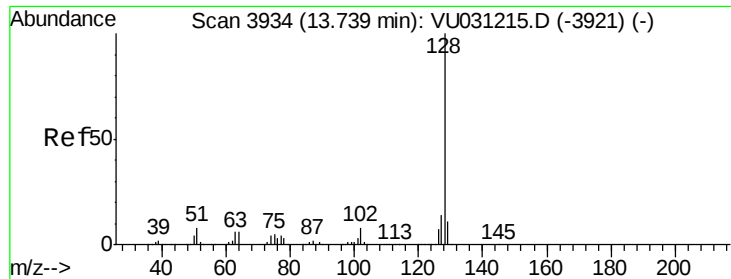
#68
 1,2,4-trichlorobenzene
 Concen: 9.207 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU031214.D
 Acq: 16 Apr 2019 16:31

Tgt Ion:180 Resp: 37310
 Ion Ratio Lower Upper
 180 100
 182 99.2 75.5 113.3
 145 26.9 23.1 34.7



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: 7.724 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD01048

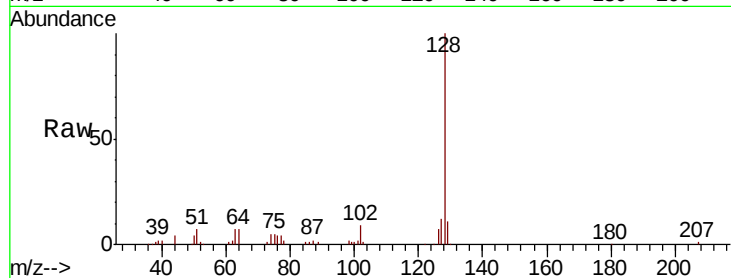
Tgt Ion:128 Resp: 101019

Ion Ratio Lower Upper

128 100

127 12.5 10.3 15.5

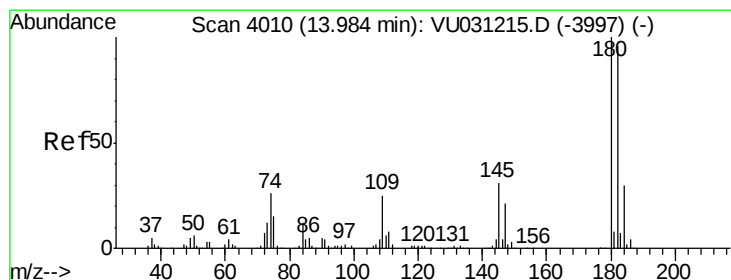
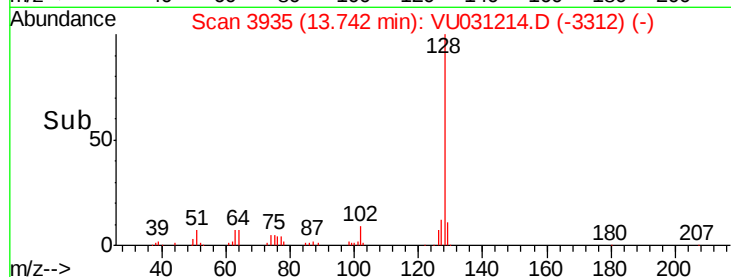
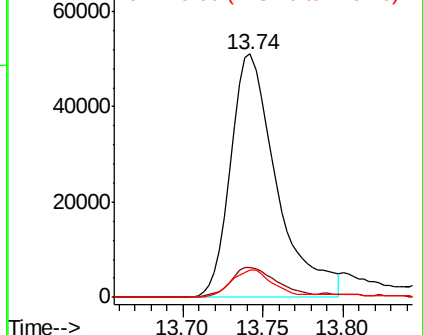
129 10.0 8.2 12.2



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: 9.941 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU031214.D

Acq: 16 Apr 2019 16:31

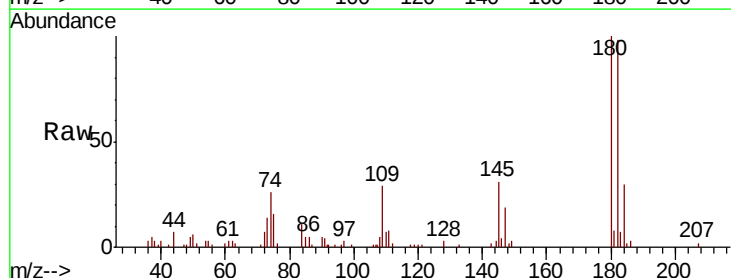
Tgt Ion:180 Resp: 42407

Ion Ratio Lower Upper

180 100

182 95.1 78.2 117.4

145 30.0 25.0 37.6



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

