

Data File : VU030059.D
Acq On : 14 Mar 2019 09:21
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Quant Time: Mar 15 01:20:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 14 03:50:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	478592	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	468624	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	243178	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	153971	48.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.28%
7) Chloroethane-d5	1.68	69	133403	52.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.40%
11) 1,1-Dichloroethene-d2	2.27	63	282320	49.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.82%
21) 2-Butanone-d5	4.17	46	267244	112.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.67%
24) Chloroform-d	4.64	84	317018	55.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	111.66%
26) 1,2-Dichloroethane-d4	5.31	65	181360	55.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.56%
32) Benzene-d6	5.34	84	661906	54.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.74%
36) 1,2-Dichloropropane-d6	6.33	67	202788	54.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.86%
41) Toluene-d8	7.56	98	635313	56.24	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	112.48%
43) trans-1,3-Dichloropropene-	7.85	79	100565	56.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	112.46%
47) 2-Hexanone-d5	8.31	63	233385	112.98	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.98%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	319909	56.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	112.78%
64) 1,2-Dichlorobenzene-d4	11.86	152	263856	56.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	112.02%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	143821	47.559 ug/L	100
3) Chloromethane	1.33	50	157424	47.186 ug/L	100
5) Vinyl chloride	1.40	62	169998	46.483 ug/L	100
6) Bromomethane	1.62	94	110357	48.711 ug/L	99
8) Chloroethane	1.70	64	105653	44.077 ug/L	98
9) Trichlorofluoromethane	1.88	101	231695	47.239 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	152985	48.656 ug/L	98
12) 1,1-Dichloroethene	2.28	96	139456	46.490 ug/L	95
13) Acetone	2.32	43	239217	86.262 ug/L	98
14) Carbon disulfide	2.48	76	425365	45.751 ug/L	99
15) Methyl Acetate	2.61	43	165788	46.273 ug/L	100
16) Methylene chloride	2.70	84	164718	46.503 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	152764	46.764 ug/L	100
18) Methyl tert-butyl Ether	3.00	73	450953	46.545 ug/L	100
19) 1,1-Dichloroethane	3.44	63	269197	47.996 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	170612	45.877 ug/L	97
22) 2-Butanone	4.26	43	281963	89.310 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	92875	48.211	ug/L	98
25) Chloroform	4.67	83	280904	47.718	ug/L	98
27) 1,2-Dichloroethane	5.40	62	199539	47.147	ug/L	99
29) Cyclohexane	4.99	56	236400	45.737	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	237624	46.448	ug/L	98
31) Carbon tetrachloride	5.13	117	208544	46.164	ug/L	100
33) Benzene	5.39	78	628664	46.881	ug/L	100
34) Trichloroethene	6.18	95	164277	46.742	ug/L	99
35) Methylcyclohexane	6.41	83	264952	46.489	ug/L	98
37) 1,2-Dichloropropane	6.43	63	164314	46.583	ug/L	99
38) Bromodichloromethane	6.75	83	210009	47.879	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	260253	47.412	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	440741	92.540	ug/L	100
42) Toluene	7.63	91	694340	47.623	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	236965	47.280	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	166245	47.127	ug/L	99
46) Tetrachloroethene	8.22	164	145863	47.424	ug/L	98
48) 2-Hexanone	8.36	43	378714	93.208	ug/L	99
49) Dibromochloromethane	8.47	129	186658	47.360	ug/L	97
50) 1,2-Dibromoethane	8.58	107	179141	46.072	ug/L	96
51) Chlorobenzene	9.12	112	457552	46.549	ug/L	98
52) Ethylbenzene	9.25	91	751902	46.846	ug/L	100
53) m,p-Xylene	9.37	106	294659	47.450	ug/L	96
54) o-xylene	9.77	106	287522	47.139	ug/L	99
55) Styrene	9.79	104	495879	47.746	ug/L	99
56) Isopropylbenzene	10.16	105	756646	47.384	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	283275	46.788	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	214282	46.646	ug/L	99
61) Bromoform	9.95	173	145943	48.215	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	365275	46.512	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	379851	47.568	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	371758	47.028	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	59700	46.474	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	293493	48.149	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	264132	47.372	ug/L	100
69) Naphthalene	13.74	128	813345	44.897	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	271960	46.952	ug/L	98

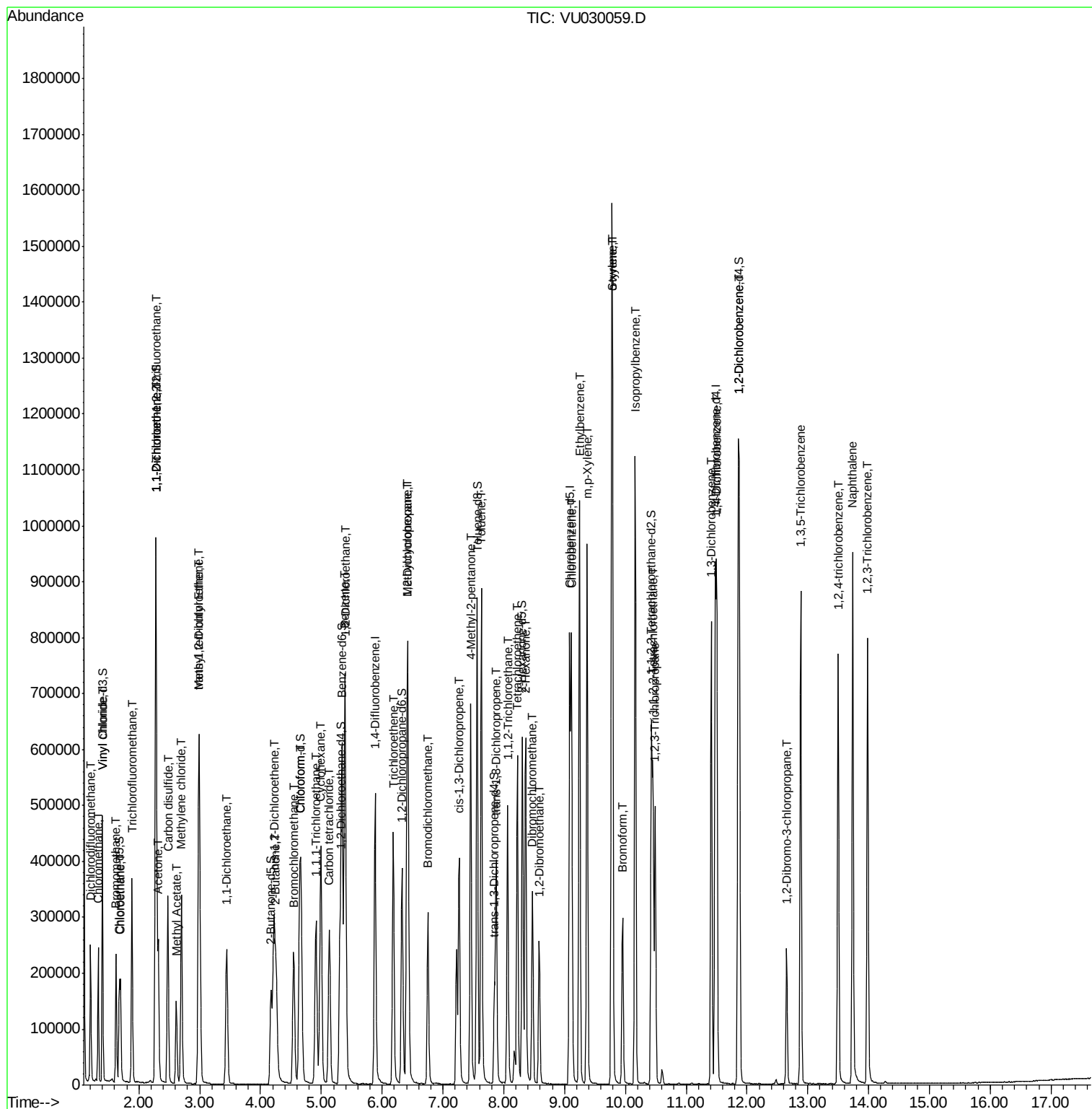
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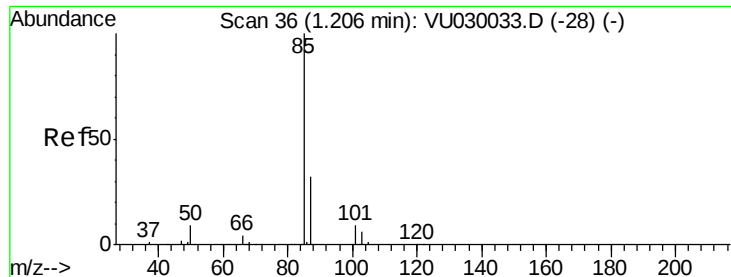
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#2

Dichlorodifluoromethane

Concen: 47.559 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

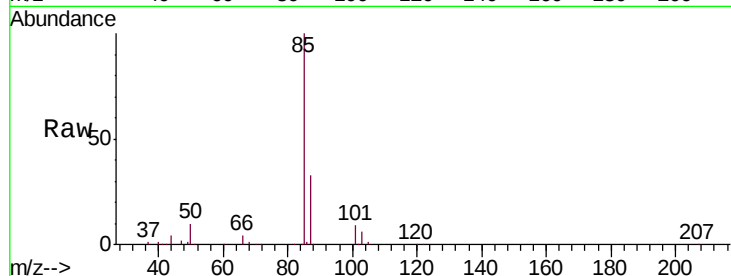
VSTD05035

Tgt Ion: 85 Resp: 143821

Ion Ratio Lower Upper

85 100

87 32.8 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU030033.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU030033.D (-28) (-)

1.21

150000

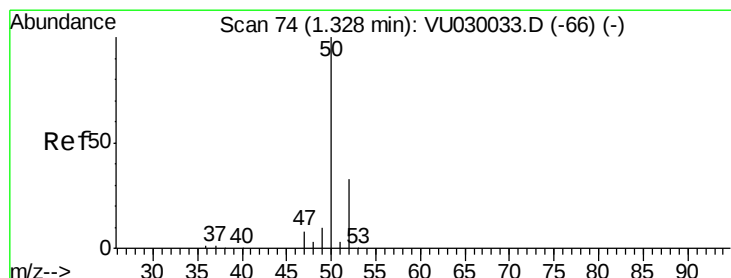
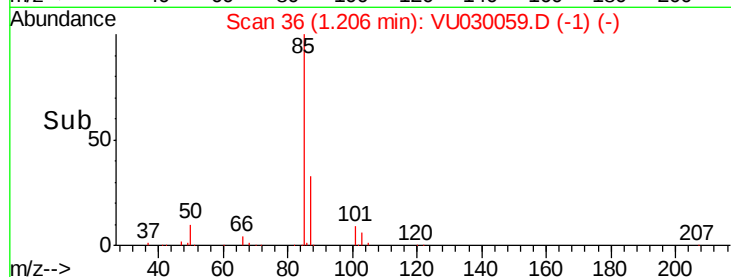
100000

50000

0

Time-->

1.15 1.20 1.25 1.30



#3

Chloromethane

Concen: 47.186 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030059.D

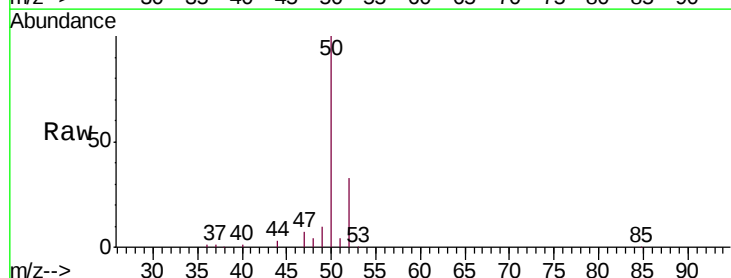
Acq: 14 Mar 2019 09:21

Tgt Ion: 50 Resp: 157424

Ion Ratio Lower Upper

50 100

52 33.3 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030033.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU030033.D (-66) (-)

1.33

150000

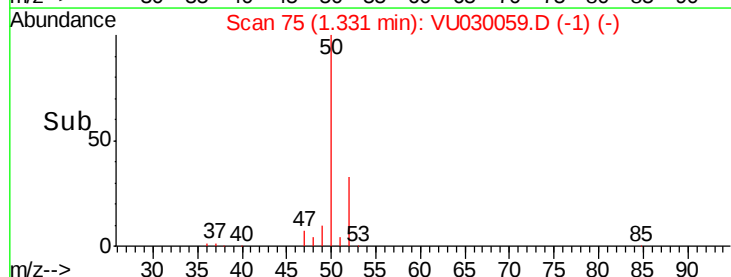
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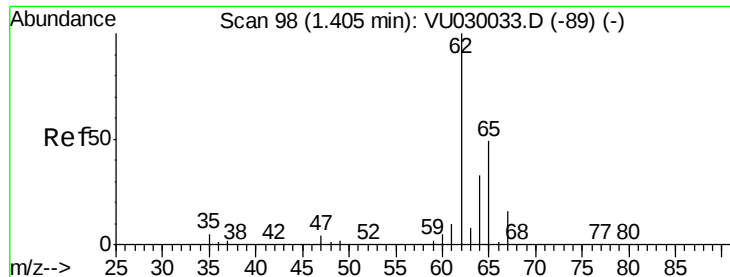
50000

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Time-->

1.30 1.35 1.40





#5

Vinyl chloride

Concen: 46.483 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

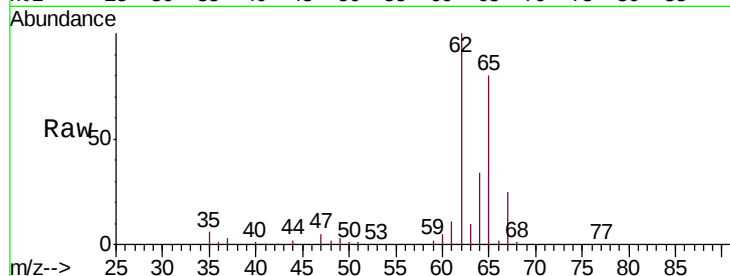
VSTD05035

Tgt Ion: 62 Resp: 169998

Ion Ratio Lower Upper

62 100

64 33.6 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU030033.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU030033.D (-89) (-)

1.40

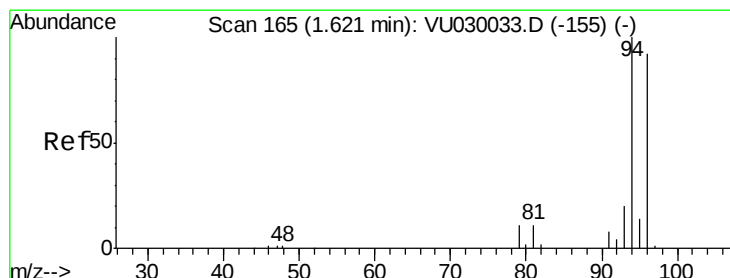
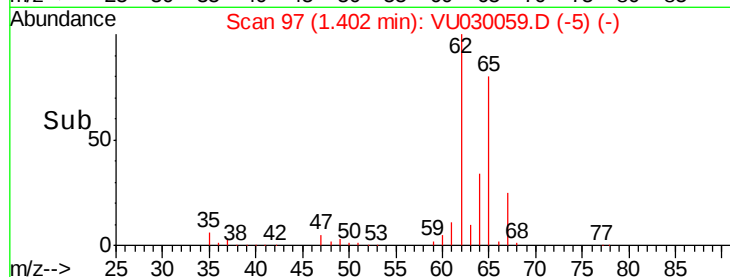
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 48.711 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU030059.D

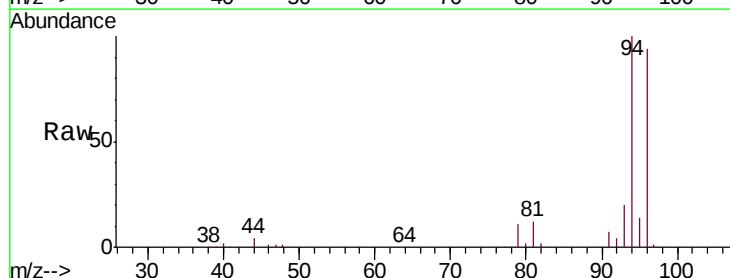
Acq: 14 Mar 2019 09:21

Tgt Ion: 94 Resp: 110357

Ion Ratio Lower Upper

94 100

96 93.8 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU030033.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU030033.D (-155) (-)

1.62

100000

80000

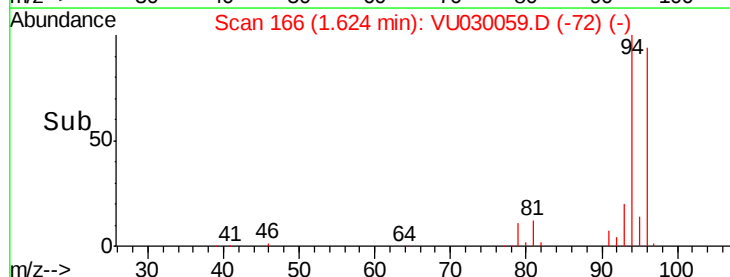
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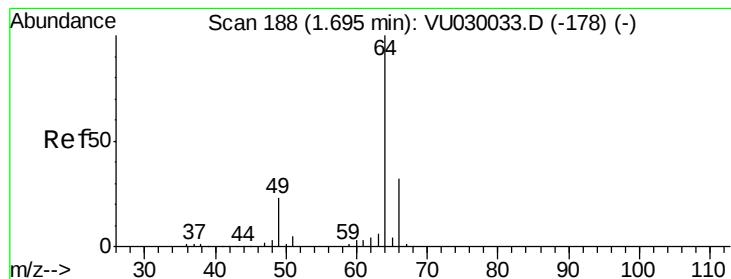
40000

20000

0

Time-->





#8

Chloroethane

Concen: 44.077 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

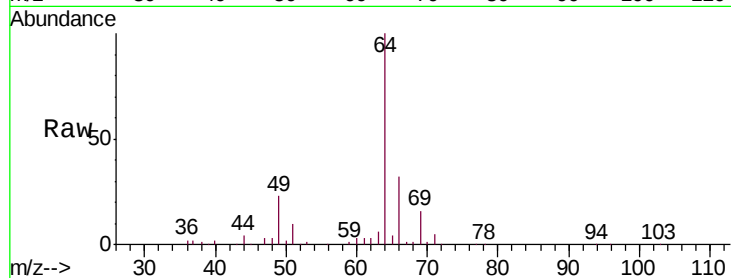
VSTD05035

Tgt Ion: 64 Resp: 105653

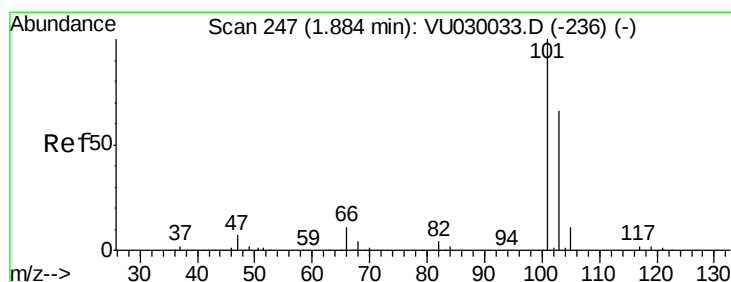
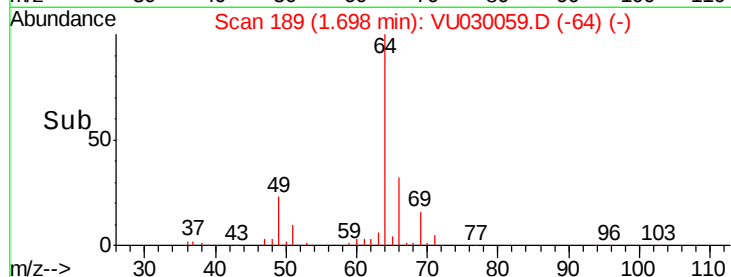
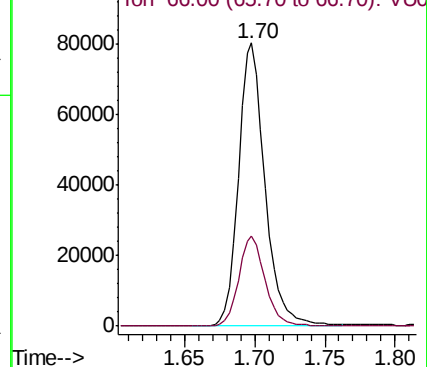
Ion Ratio Lower Upper

64 100

66 31.7 21.3 39.6



Abundance Ion 64.00 (63.70 to 64.70): VU030033.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 47.239 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU030059.D

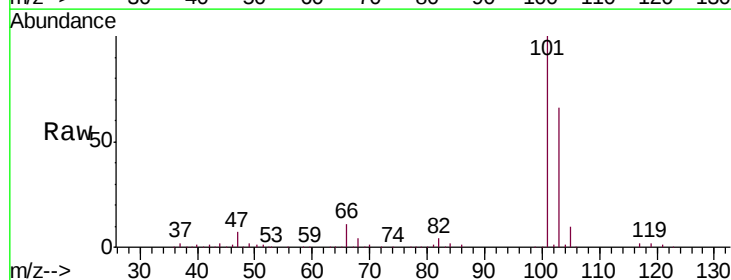
Acq: 14 Mar 2019 09:21

Tgt Ion: 101 Resp: 231695

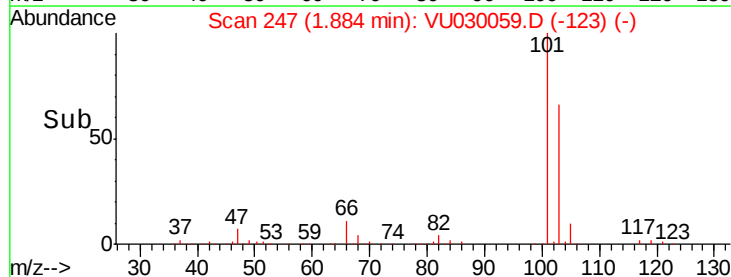
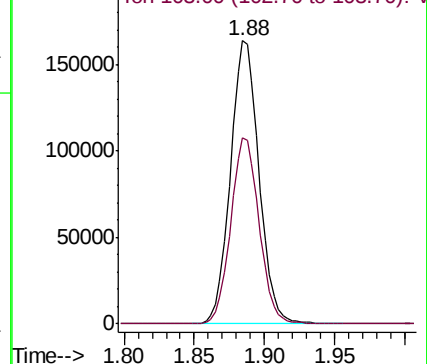
Ion Ratio Lower Upper

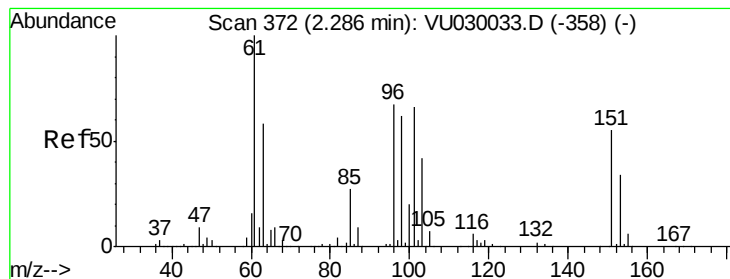
101 100

103 65.4 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU030033.D (-236) (-)





#10

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

Concen: 48.656 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

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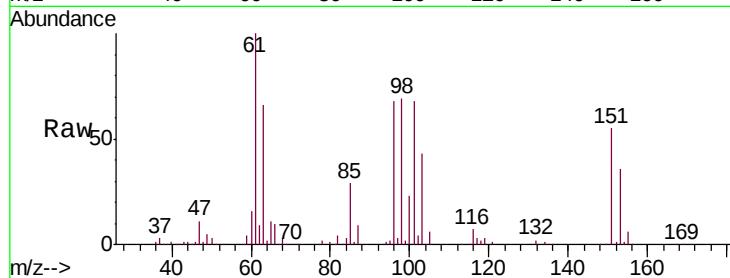
Tgt Ion: 101 Resp: 152985

Ion Ratio Lower Upper

101 100

85 41.2 33.0 49.4

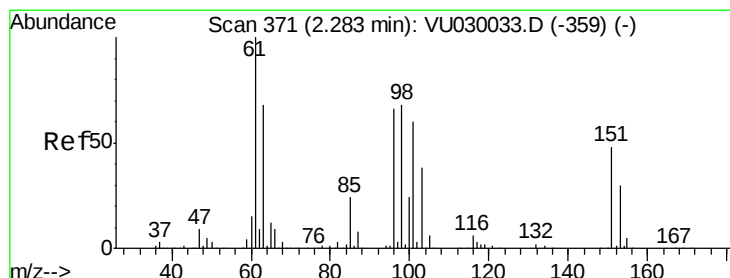
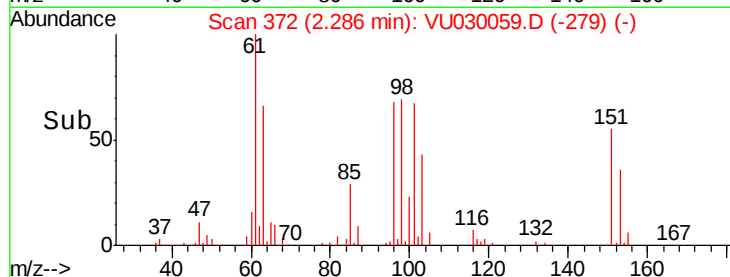
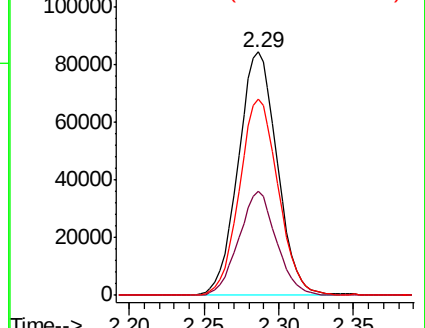
151 80.2 66.1 99.1



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: 46.490 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

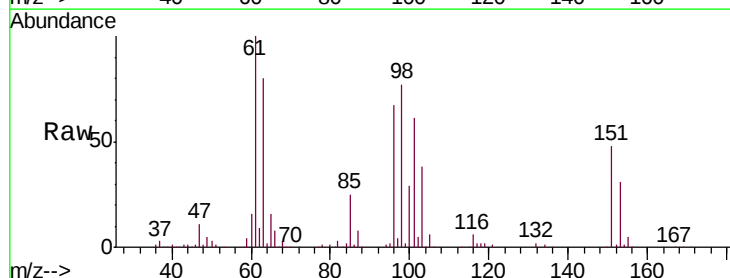
Tgt Ion: 96 Resp: 139456

Ion Ratio Lower Upper

96 100

61 150.2 110.4 205.0

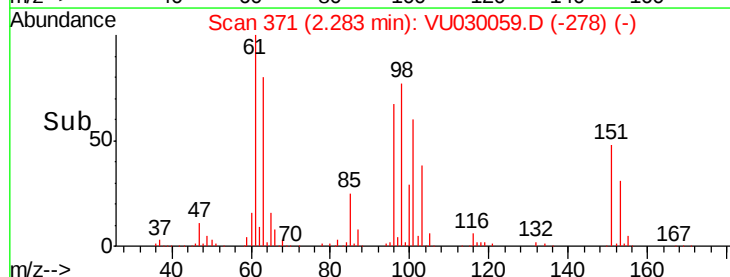
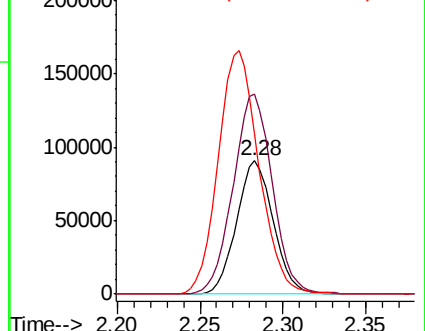
63 120.1 86.5 160.7

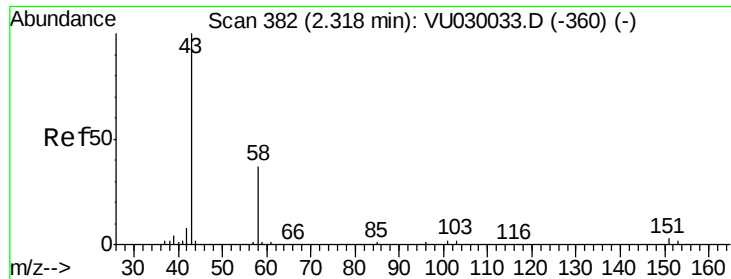


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 86.262 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

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ClientSampleId :

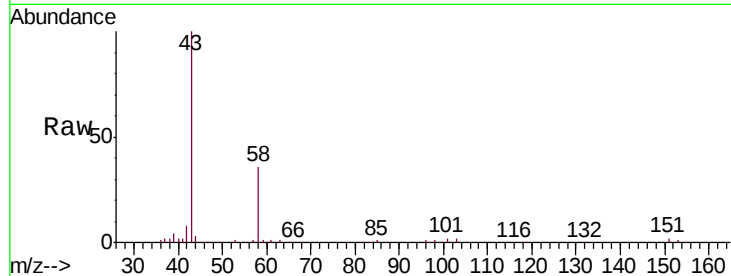
VSTD05035

Tgt Ion: 43 Resp: 239217

Ion Ratio Lower Upper

43 100

58 35.4 0.0 73.0



Abundance Ion 43.00 (42.70 to 43.70): VU030033.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU030033.D (-360) (-)

2.32

150000

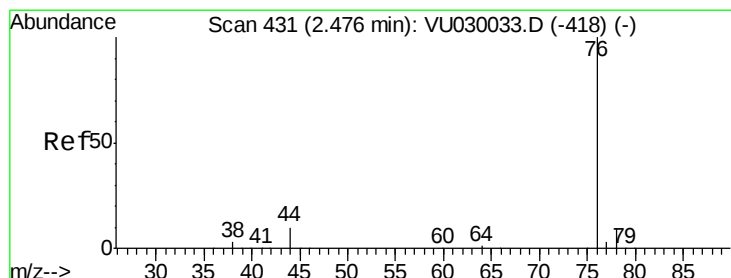
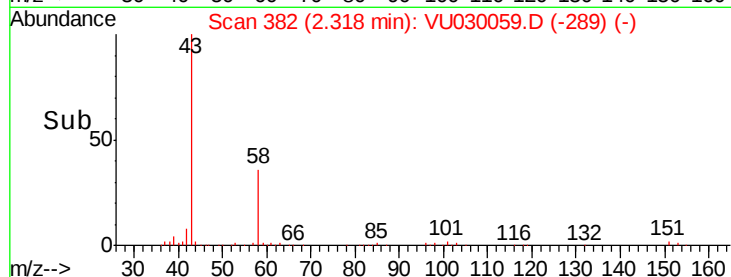
100000

50000

0

Time-->

2.20 2.30 2.40



#14

Carbon disulfide

Concen: 45.751 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030059.D

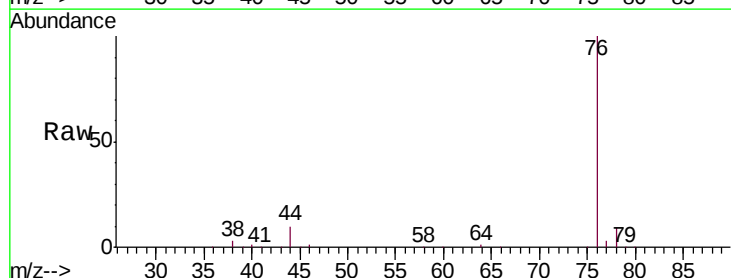
Acq: 14 Mar 2019 09:21

Tgt Ion: 76 Resp: 425365

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030033.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU030033.D (-418) (-)

2.48

300000

250000

200000

150000

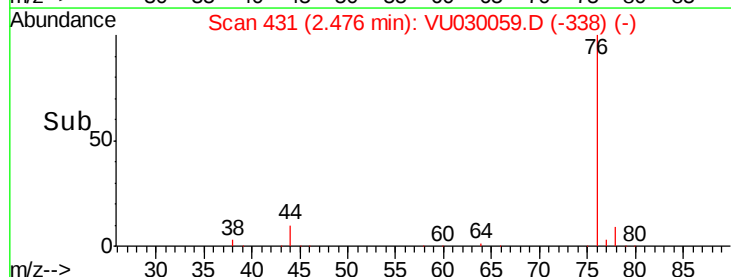
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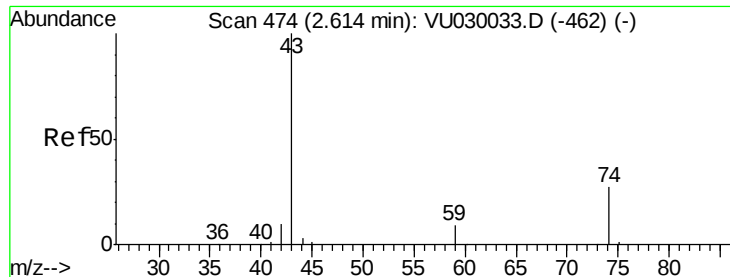
50000

0

Time-->

2.40 2.45 2.50 2.55

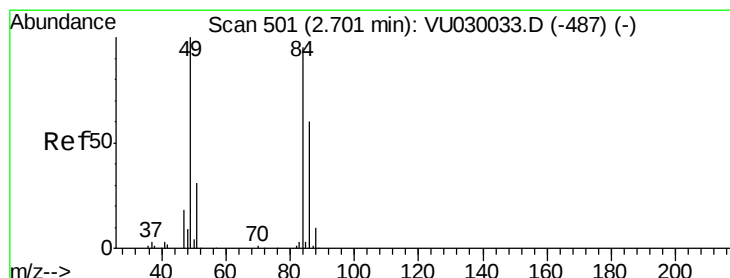
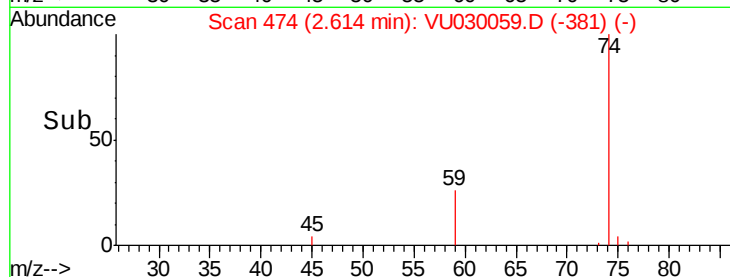
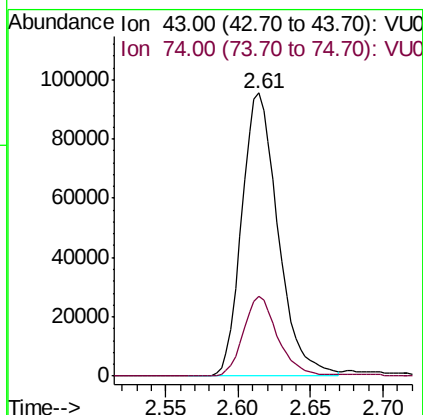
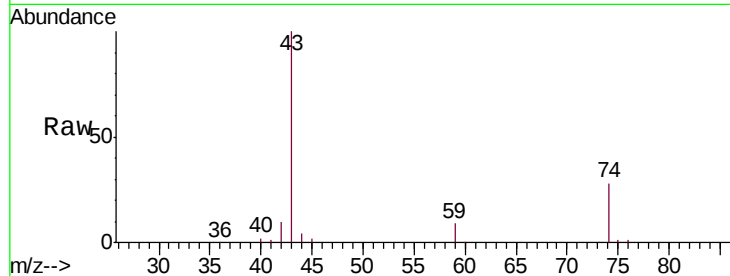




#15
Methyl Acetate
Concen: 46.273 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU030059.D
Acq: 14 Mar 2019 09:21

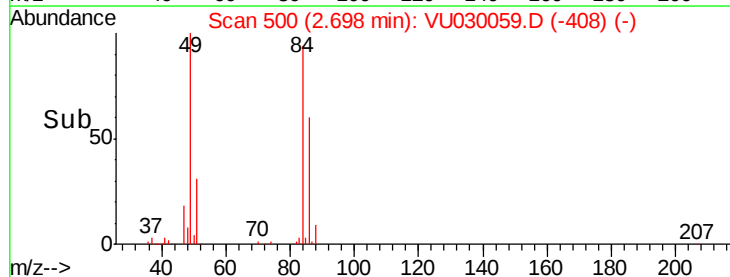
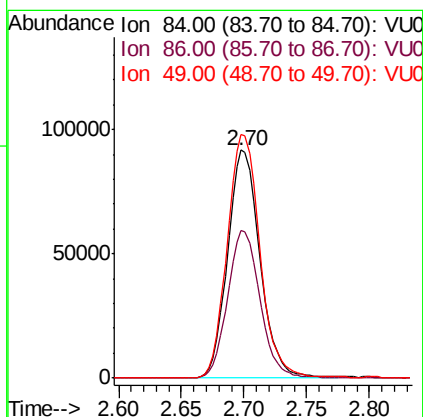
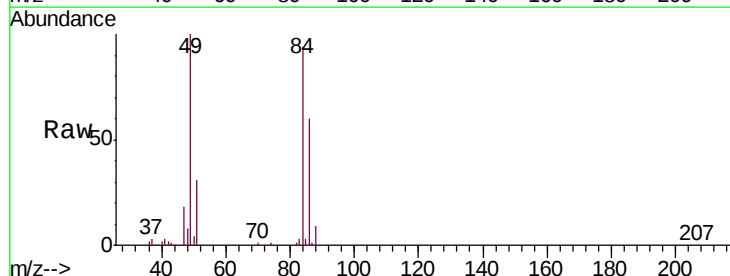
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

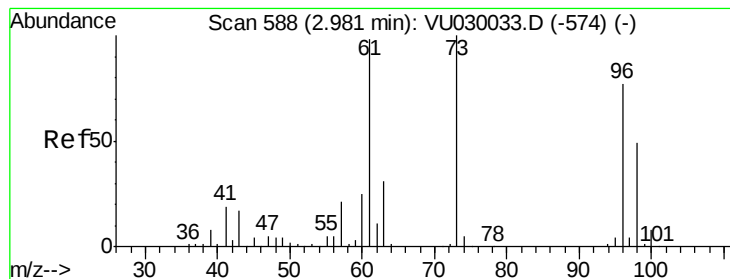
Tgt Ion: 43 Resp: 165788
Ion Ratio Lower Upper
43 100
74 27.2 21.9 32.9



#16
Methylene chloride
Concen: 46.503 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU030059.D
Acq: 14 Mar 2019 09:21

Tgt Ion: 84 Resp: 164718
Ion Ratio Lower Upper
84 100
86 64.5 45.2 84.0
49 106.9 73.6 136.6





#17

trans-1,2-Dichloroethene

Concen: 46.764 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampled :

VSTD05035

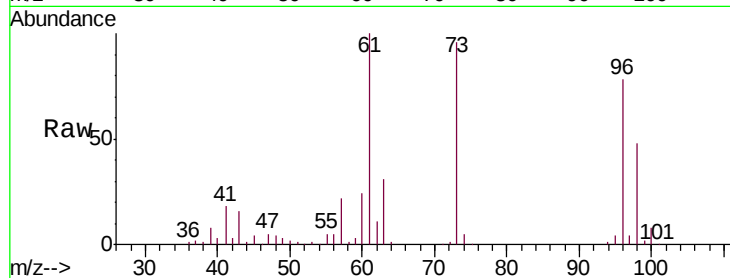
Tgt Ion: 96 Resp: 152764

Ion Ratio Lower Upper

96 100

61 127.7 89.4 166.0

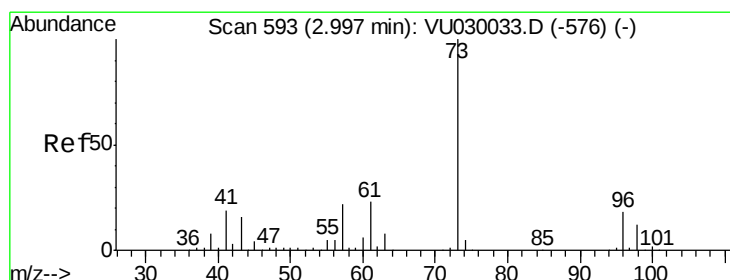
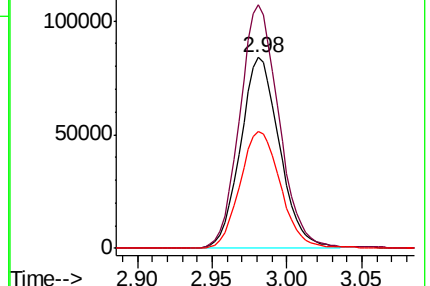
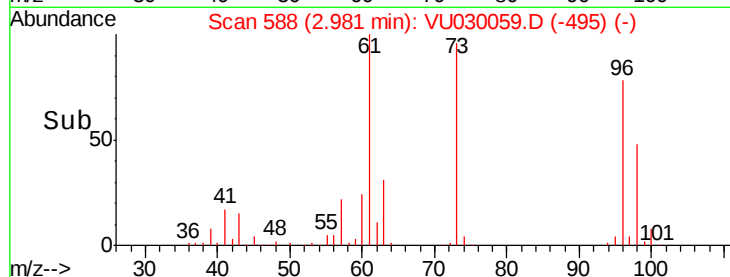
98 61.5 43.3 80.5



Abundance Ion 96.00 (95.70 to 96.70): VU030033.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU030033.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU030033.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 46.545 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

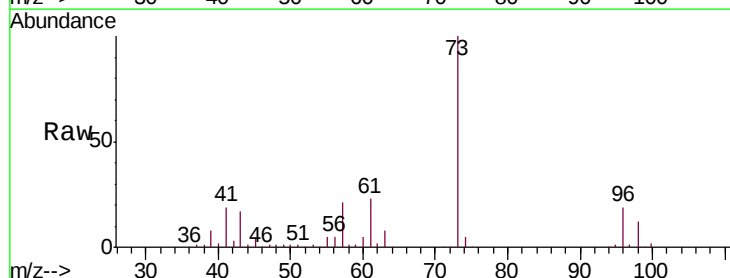
Tgt Ion: 73 Resp: 450953

Ion Ratio Lower Upper

73 100

43 16.4 13.1 19.7

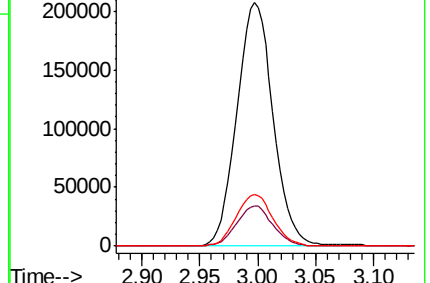
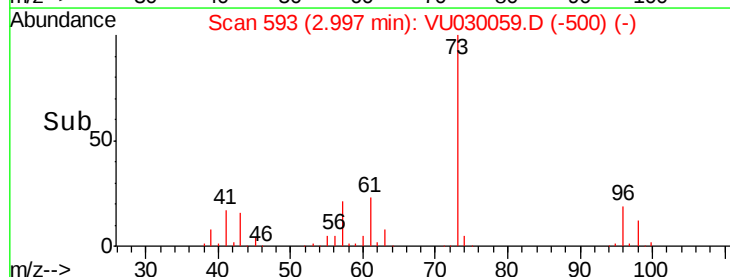
57 21.5 17.1 25.7

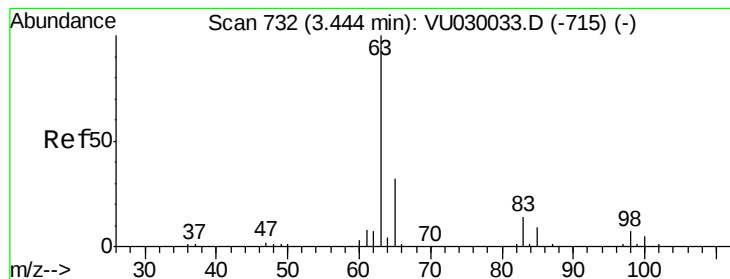


Abundance Ion 73.00 (72.70 to 73.70): VU030033.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030033.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030033.D (-576) (-)





#19

1,1-Dichloroethane

Concen: 47.996 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

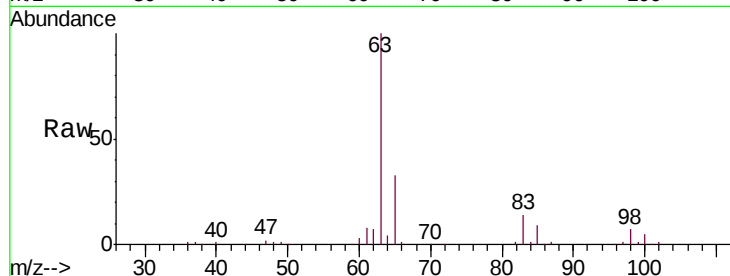
Tgt Ion: 63 Resp: 269197

Ion Ratio Lower Upper

63 100

65 32.5 22.0 41.0

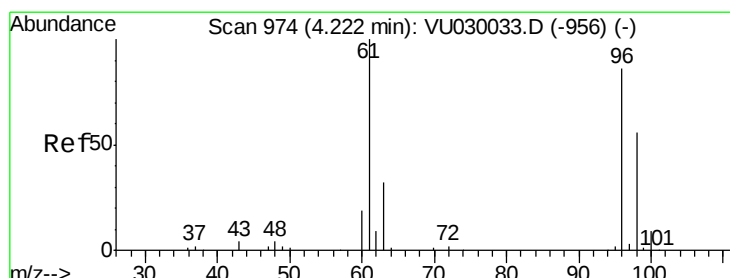
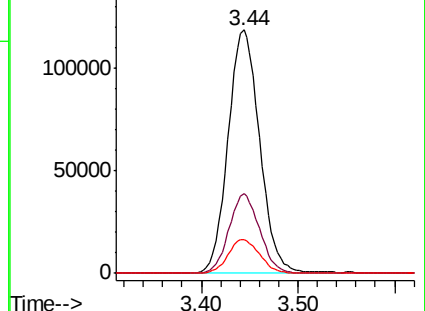
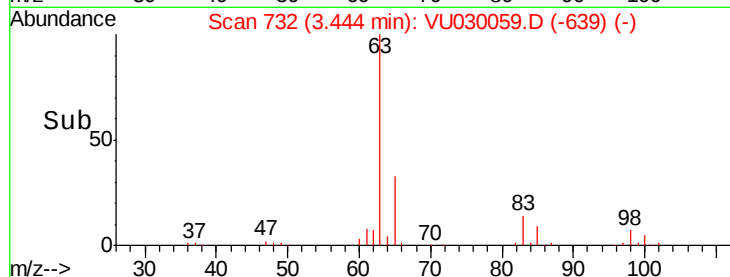
83 14.0 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VU030059.D (-639) (-)

Ion 65.00 (64.70 to 65.70): VU030059.D (-639) (-)

Ion 83.00 (82.70 to 83.70): VU030059.D (-639) (-)



#20

cis-1,2-Dichloroethene

Concen: 45.877 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

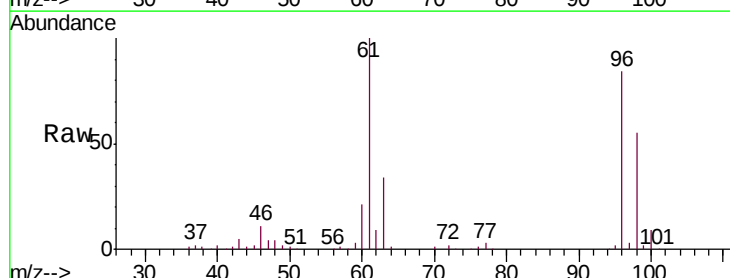
Tgt Ion: 96 Resp: 170612

Ion Ratio Lower Upper

96 100

61 118.7 80.8 150.2

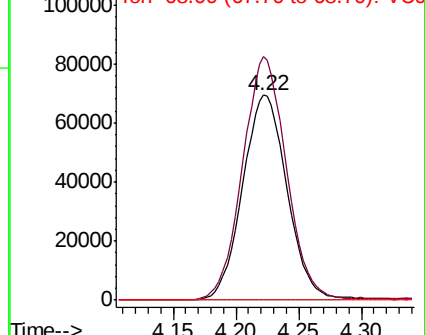
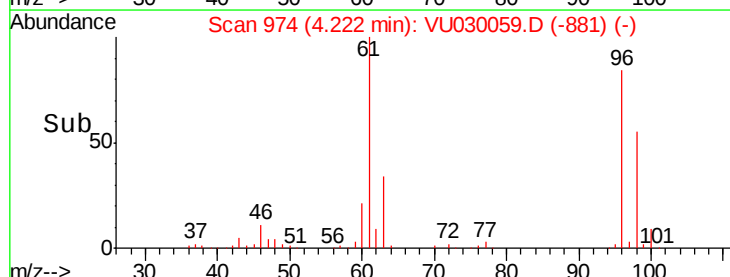
68 0.0 0.0 0.0

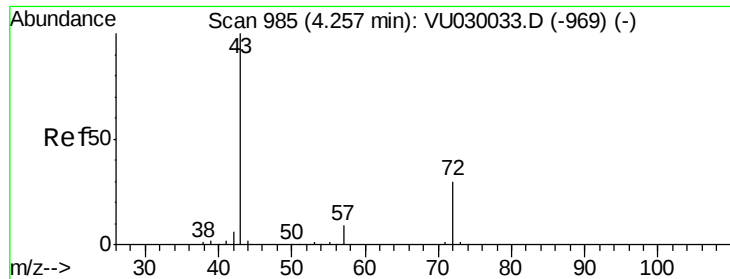


Abundance Ion 96.00 (95.70 to 96.70): VU030059.D (-881) (-)

Ion 61.00 (60.70 to 61.70): VU030059.D (-881) (-)

Ion 68.00 (67.70 to 68.70): VU030059.D (-881) (-)





#22

2-Butanone

Concen: 89.310 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

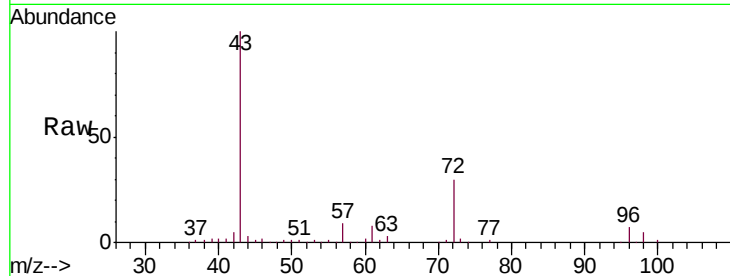
VSTD05035

Tgt Ion: 43 Resp: 281963

Ion Ratio Lower Upper

43 100

72 31.0 15.3 45.9

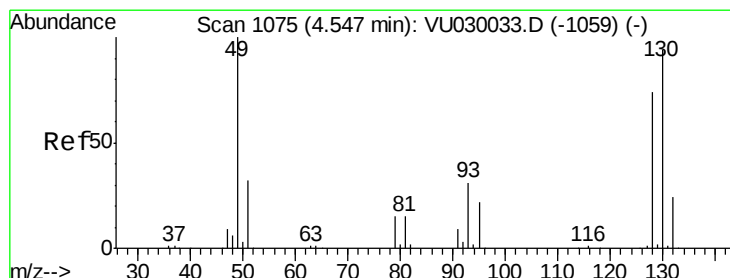
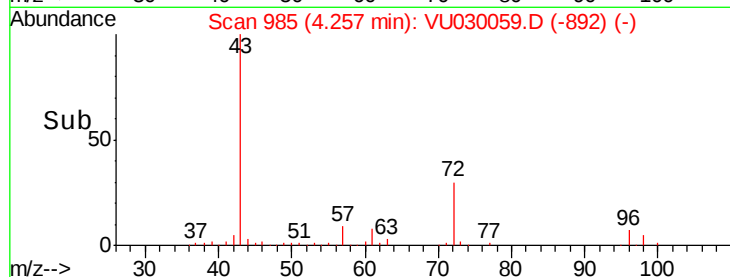


Abundance Ion 43.00 (42.70 to 43.70): VU030033.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU030033.D (-969) (-)

4.26

Time-->



#23

Bromochloromethane

Concen: 48.211 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Tgt Ion: 128 Resp: 92875

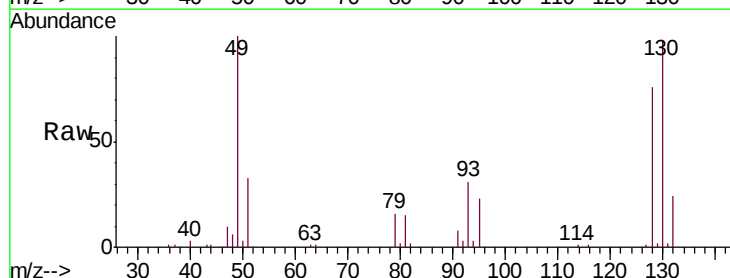
Ion Ratio Lower Upper

128 100

49 131.8 94.5 175.5

130 129.4 91.4 169.8

51 43.2 34.2 51.2



Abundance Ion 128.00 (127.70 to 128.70): VU030033.D (-1059) (-)

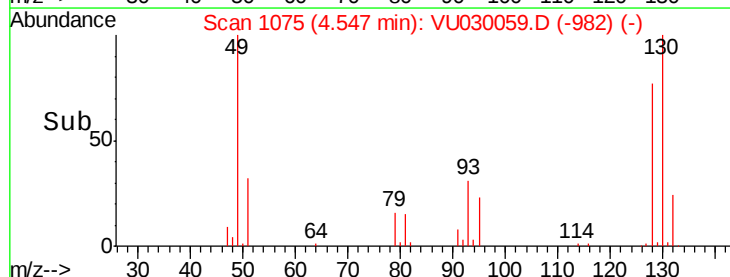
Ion 49.00 (48.70 to 49.70): VU030033.D (-1059) (-)

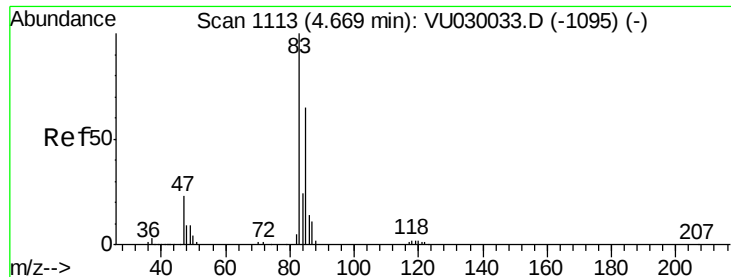
Ion 130.00 (129.70 to 130.70): VU030033.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030033.D (-1059) (-)

4.55

Time-->





#25

Chloroform

Concen: 47.718 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

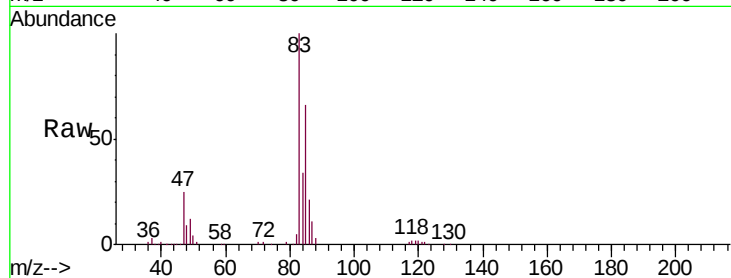
VSTD05035

Tgt Ion: 83 Resp: 280904

Ion Ratio Lower Upper

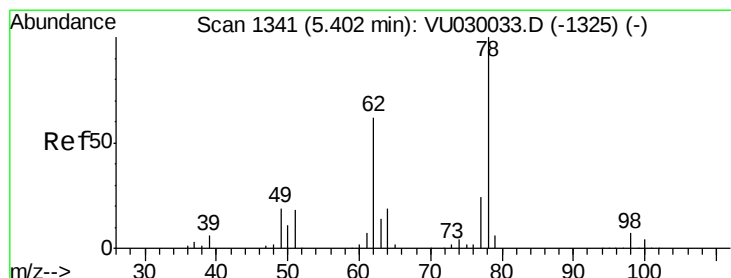
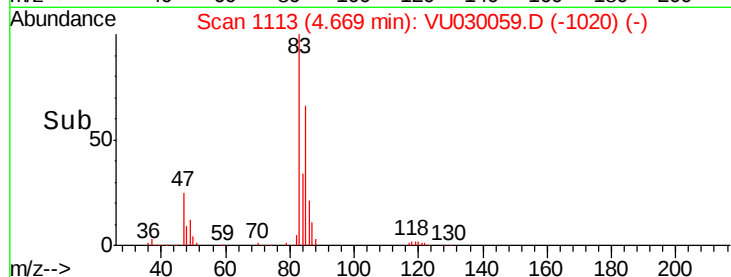
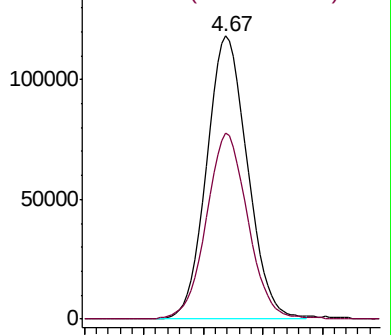
83 100

85 65.6 44.9 83.5



Abundance Ion 83.00 (82.70 to 83.70): VU030033.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU030033.D (-1095) (-)



#27

1,2-Dichloroethane

Concen: 47.147 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030059.D

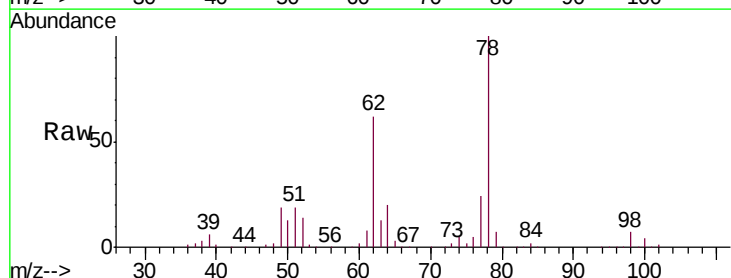
Acq: 14 Mar 2019 09:21

Tgt Ion: 62 Resp: 199539

Ion Ratio Lower Upper

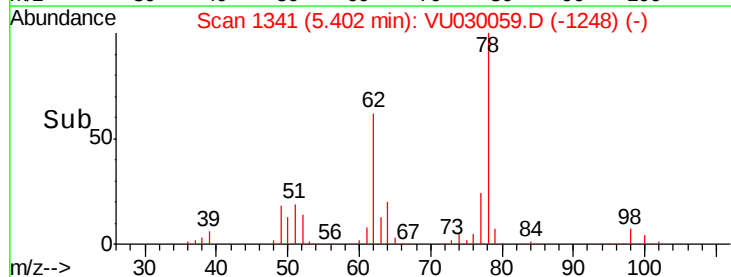
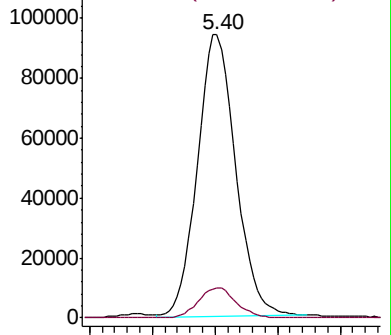
62 100

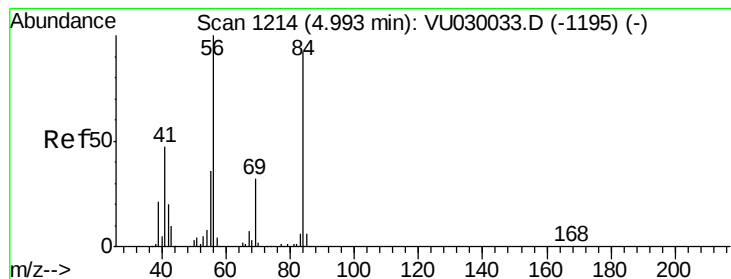
98 10.6 8.8 13.2



Abundance Ion 62.00 (61.70 to 62.70): VU030033.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU030033.D (-1325) (-)





#29

Cyclohexane

Concen: 45.737 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

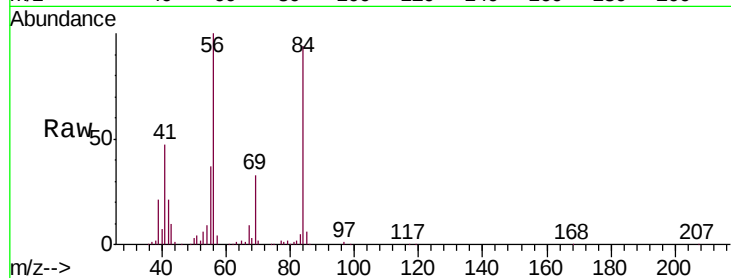
Tgt Ion: 56 Resp: 236400

Ion Ratio Lower Upper

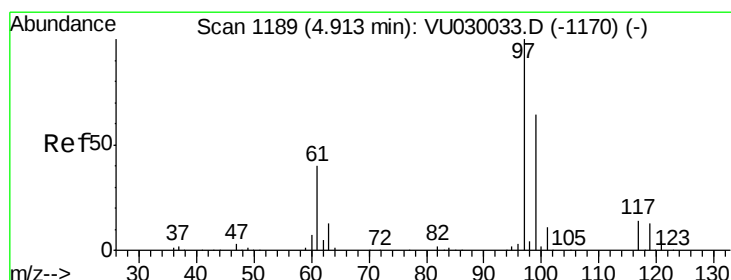
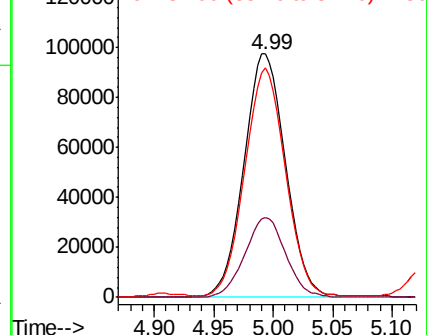
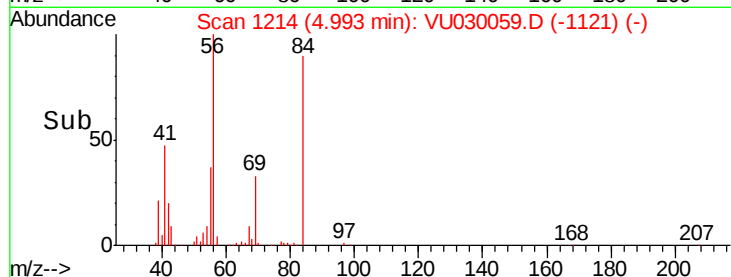
56 100

69 32.4 25.3 37.9

84 91.5 73.5 110.3



Abundance Ion 56.00 (55.70 to 56.70): VU030059.D (-1121) (-)



#30

1,1,1-Trichloroethane

Concen: 46.448 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

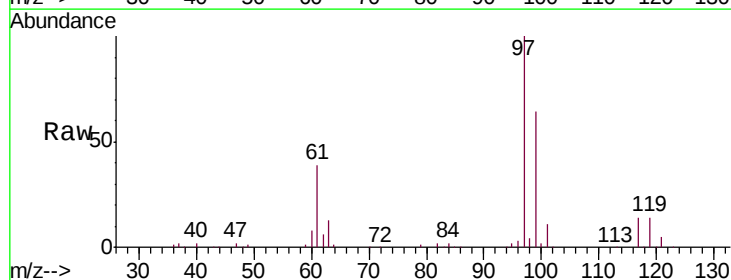
Tgt Ion: 97 Resp: 237624

Ion Ratio Lower Upper

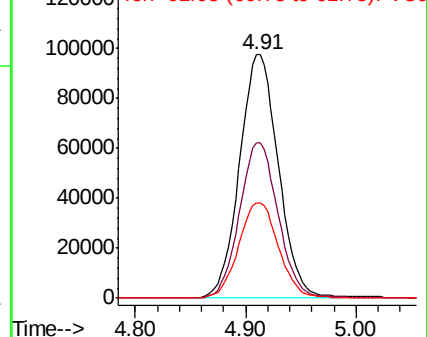
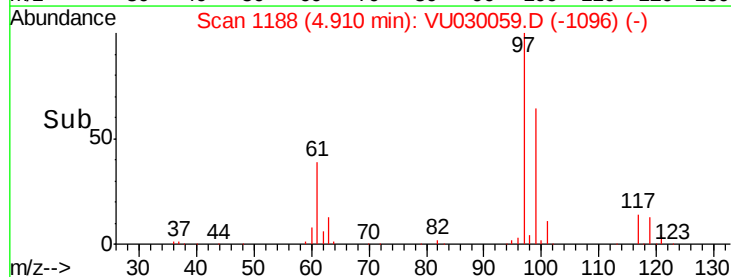
97 100

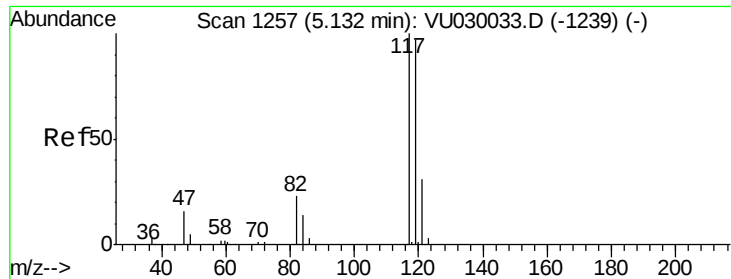
99 63.3 52.2 78.2

61 40.2 32.2 48.4



Abundance Ion 97.00 (96.70 to 97.70): VU030059.D (-1096) (-)

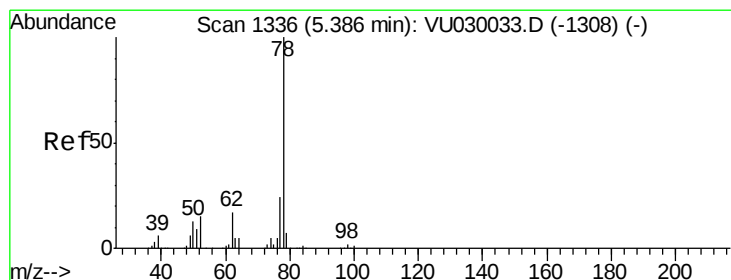
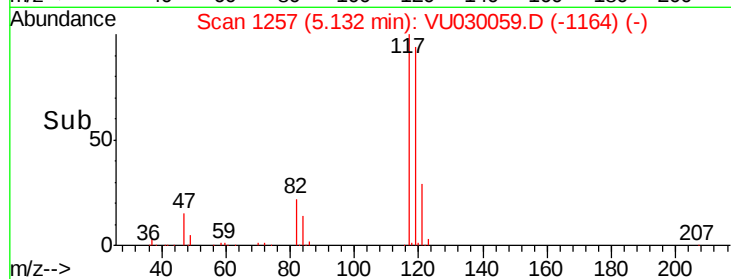
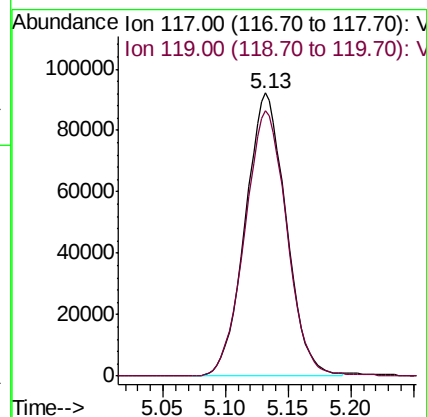
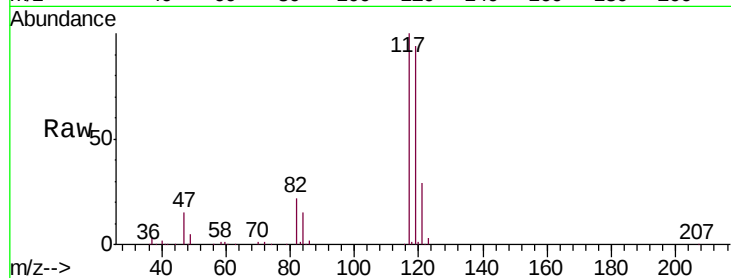




#31
Carbon tetrachloride
Concen: 46.164 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VU030059.D
Acq: 14 Mar 2019 09:21

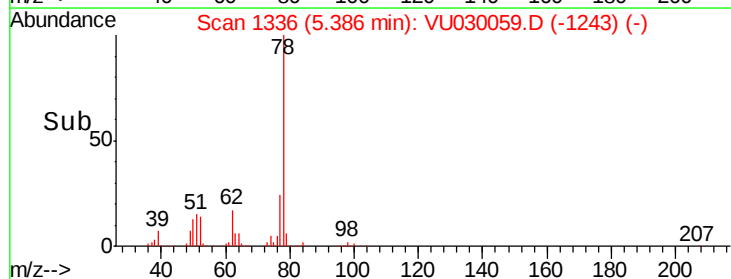
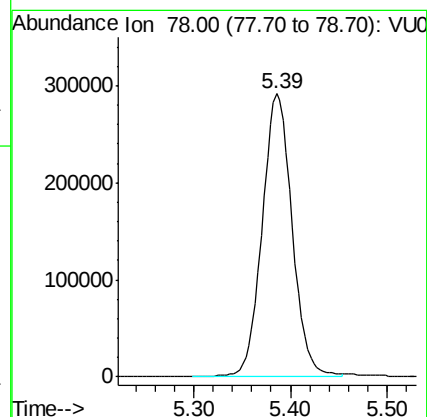
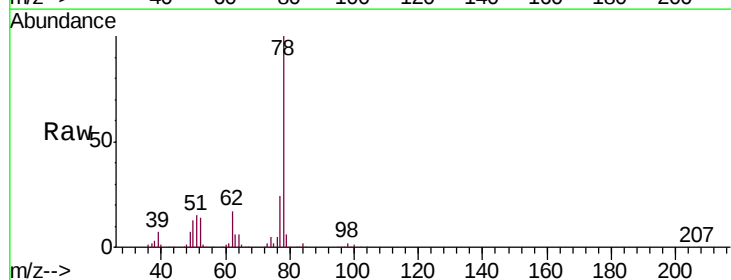
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

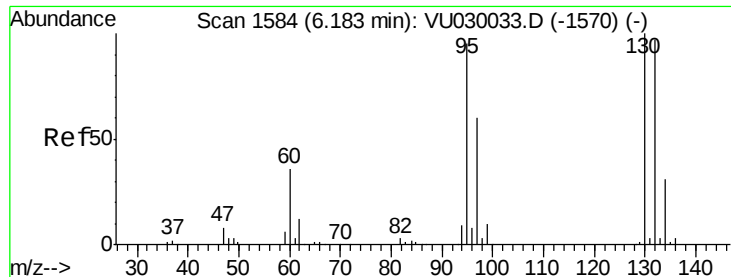
Tgt Ion:117 Resp: 208544
Ion Ratio Lower Upper
117 100
119 96.5 77.3 115.9



#33
Benzene
Concen: 46.881 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU030059.D
Acq: 14 Mar 2019 09:21

Tgt Ion: 78 Resp: 628664

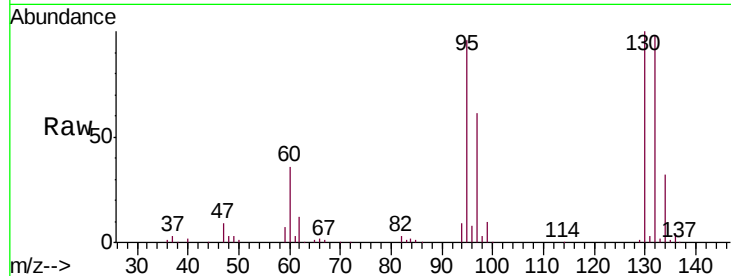




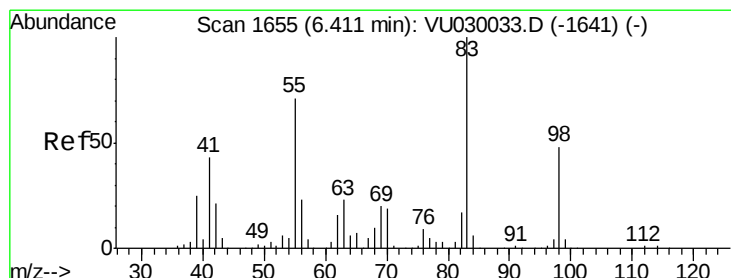
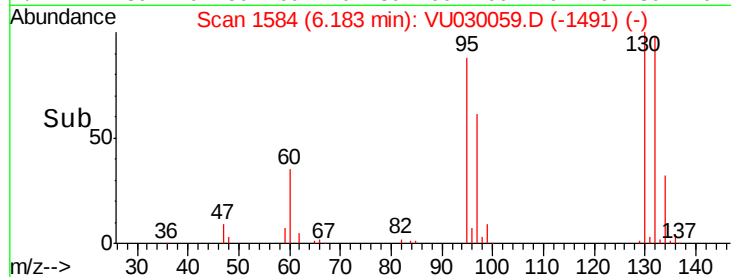
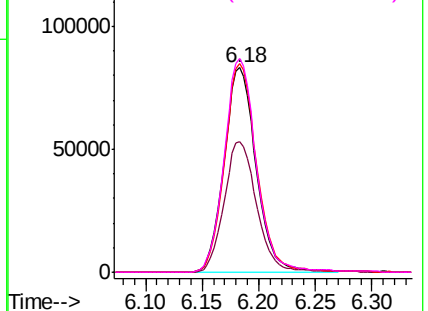
#34
 Trichloroethene
 Concen: 46.742 ug/L
 RT: 6.18 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

Tgt Ion: 95 Resp: 164277
 Ion Ratio Lower Upper
 95 100
 97 63.5 45.5 84.5
 132 102.0 71.5 132.7
 130 104.3 73.5 136.5

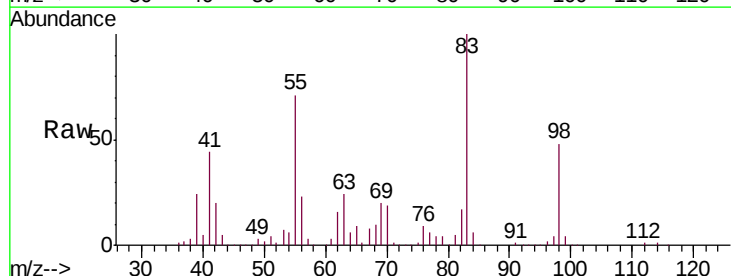


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

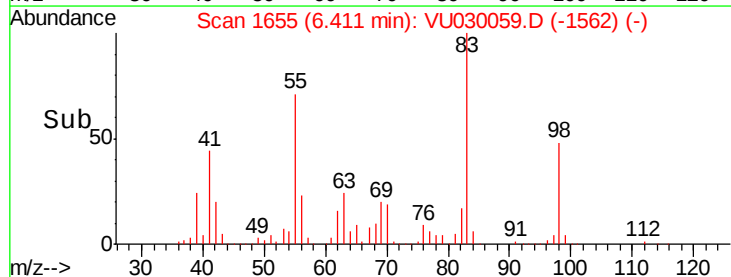
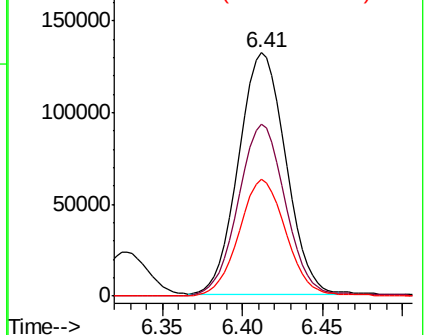


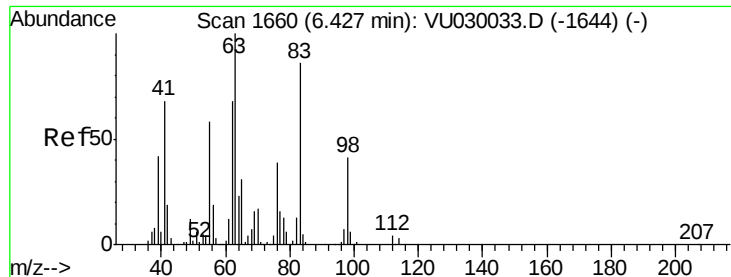
#35
 Methylcyclohexane
 Concen: 46.489 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

Tgt Ion: 83 Resp: 264952
 Ion Ratio Lower Upper
 83 100
 55 72.3 56.6 84.8
 98 48.5 37.8 56.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

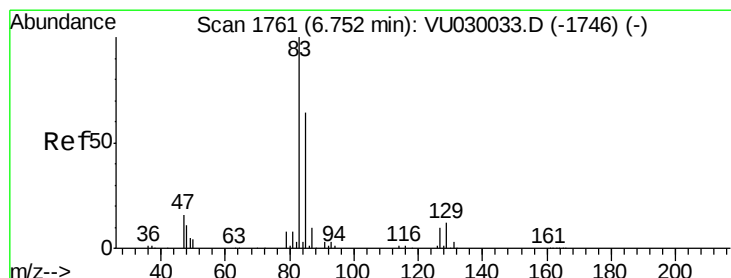
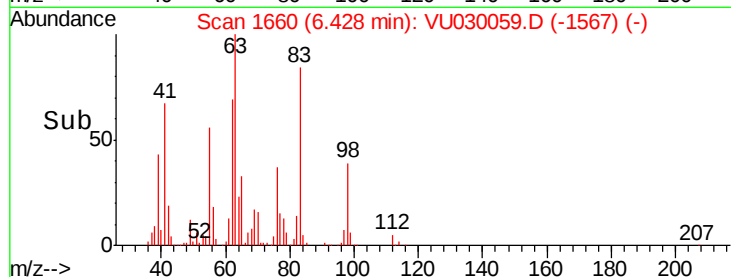
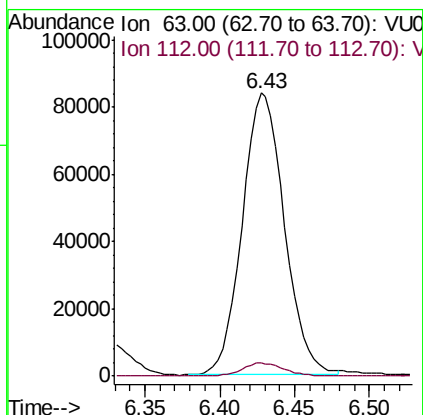
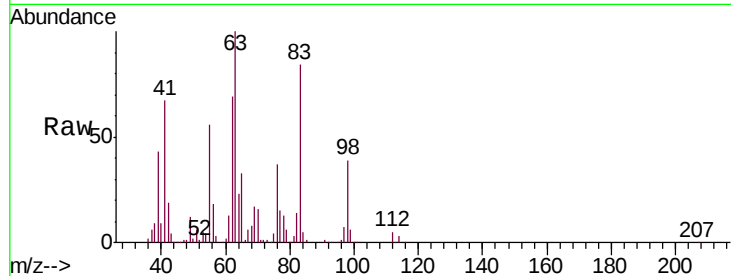




#37
 1,2-Dichloropropane
 Concen: 46.583 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

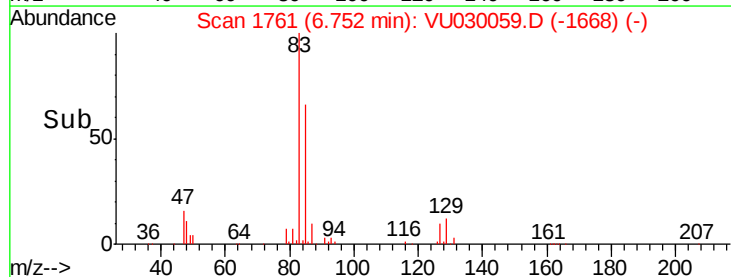
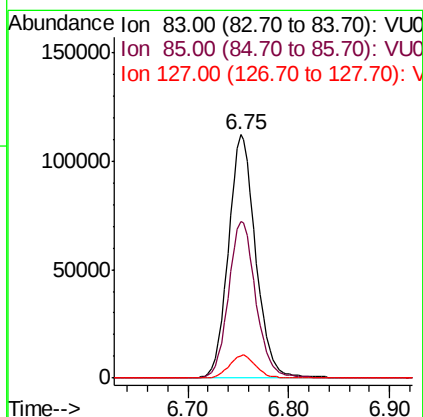
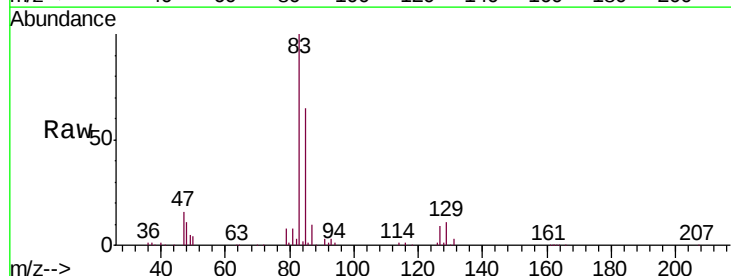
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

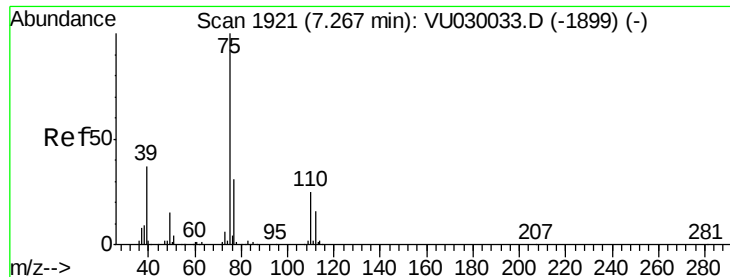
Tgt Ion: 63 Resp: 164314
 Ion Ratio Lower Upper
 63 100
 112 4.7 3.4 5.2



#38
 Bromodichloromethane
 Concen: 47.879 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

Tgt Ion: 83 Resp: 210009
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.7 84.9
 127 9.3 7.7 11.5

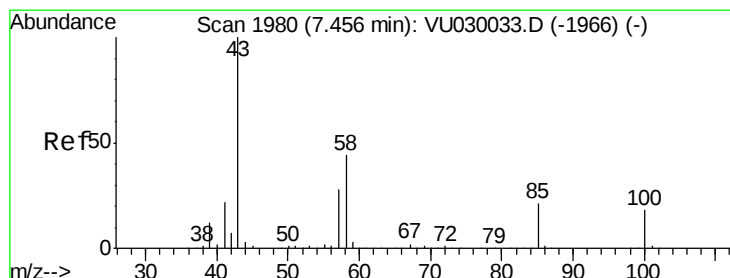
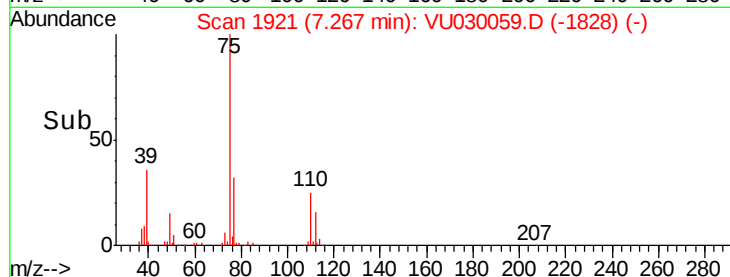
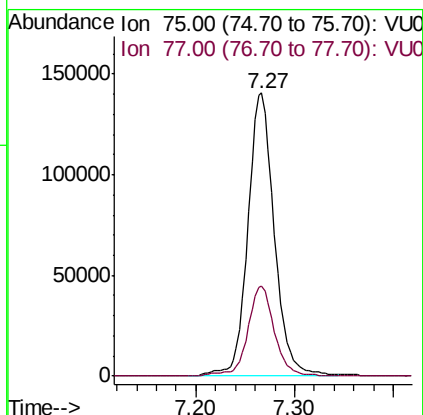
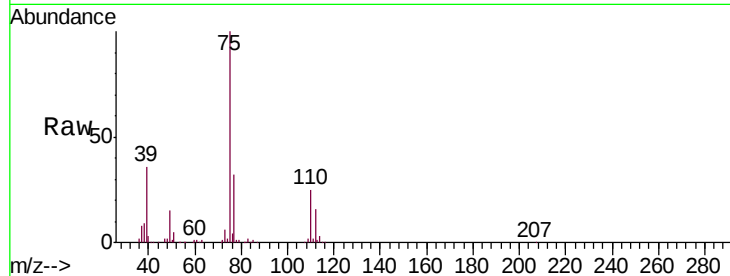




#39
 cis-1,3-Dichloropropene
 Concen: 47.412 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

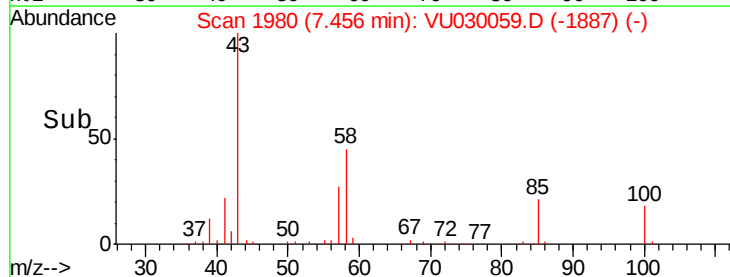
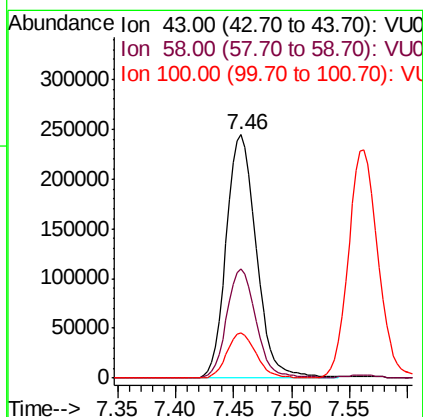
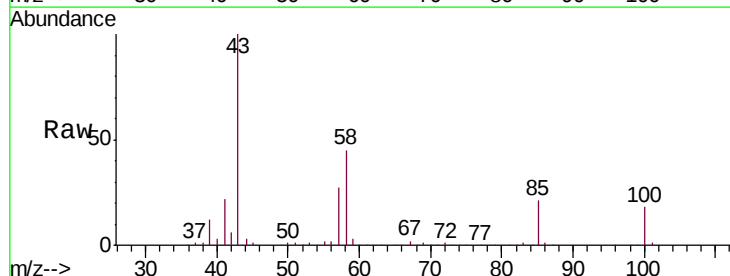
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

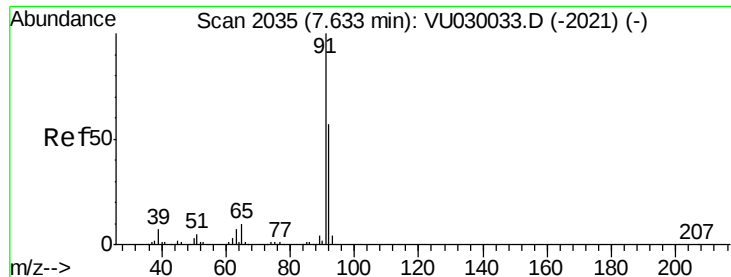
Tgt Ion: 75 Resp: 260253
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 92.540 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

Tgt Ion: 43 Resp: 440741
 Ion Ratio Lower Upper
 43 100
 58 43.6 35.1 52.7
 100 18.0 14.4 21.6





#42

Toluene

Concen: 47.623 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

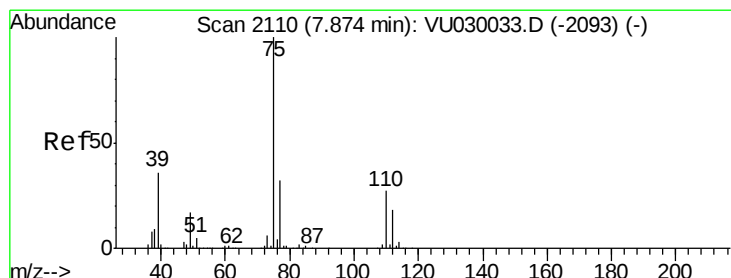
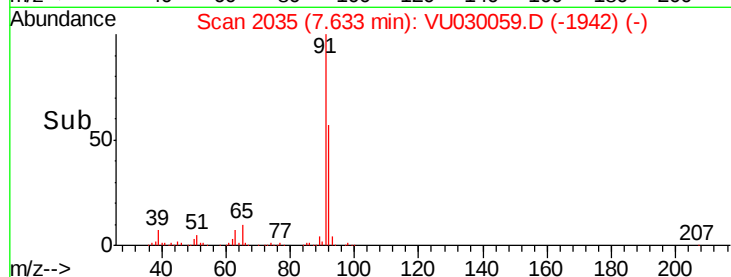
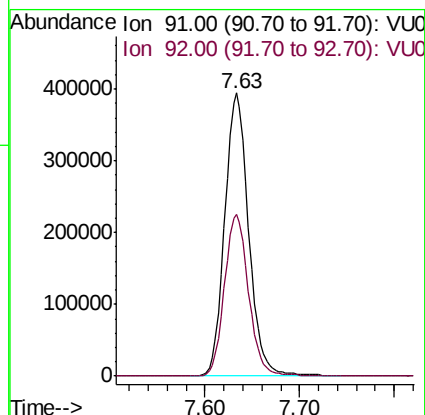
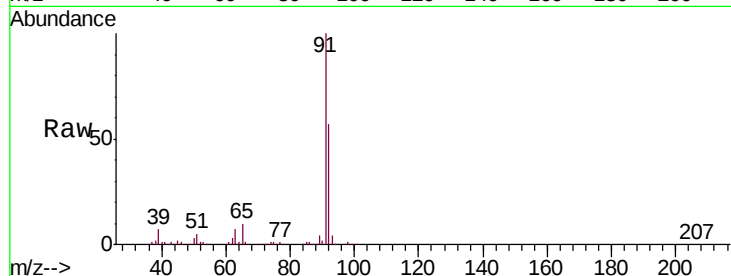
VSTD05035

Tgt Ion: 91 Resp: 694340

Ion Ratio Lower Upper

91 100

92 57.3 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 47.280 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU030059.D

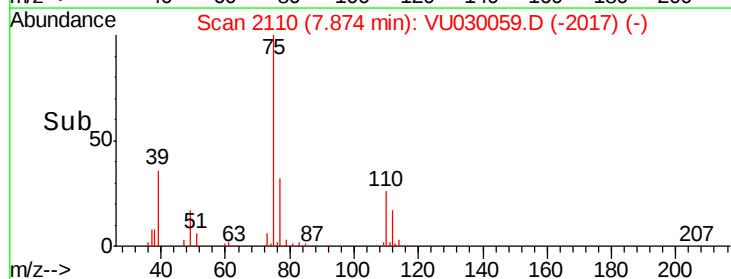
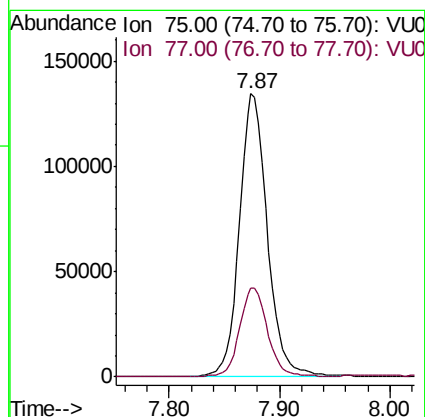
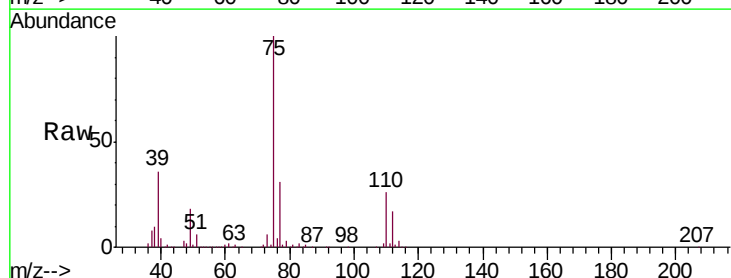
Acq: 14 Mar 2019 09:21

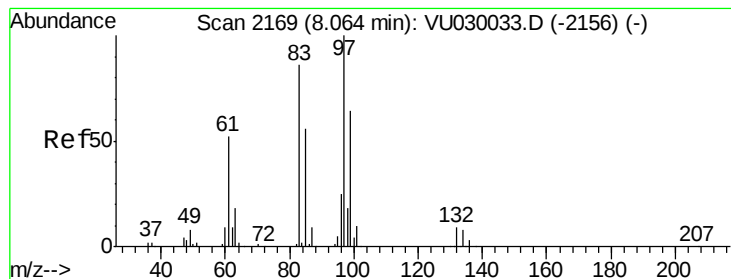
Tgt Ion: 75 Resp: 236965

Ion Ratio Lower Upper

75 100

77 31.5 21.9 40.7





#45

1,1,2-Trichloroethane

Concen: 47.127 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

Tgt Ion: 97 Resp: 166245

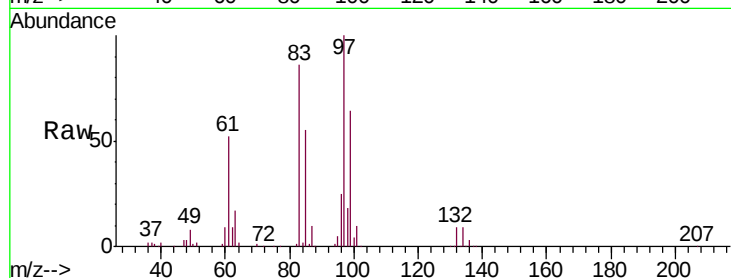
Ion Ratio Lower Upper

97 100

99 63.7 44.7 82.9

83 85.9 58.6 108.8

85 55.1 38.1 70.7



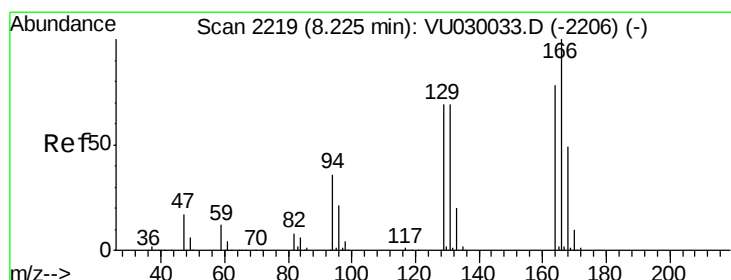
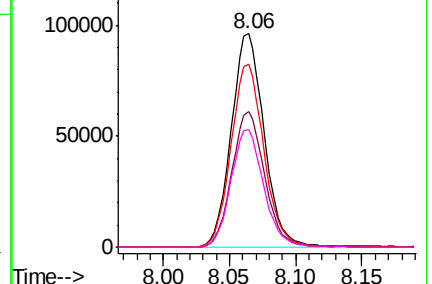
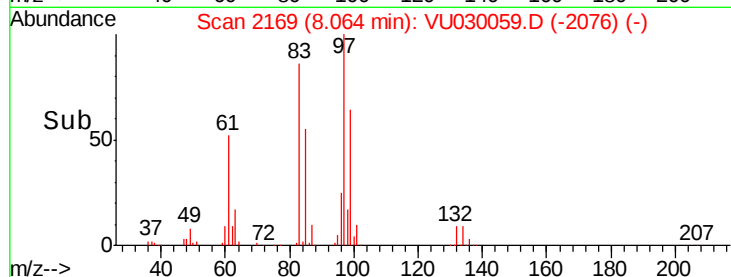
Abundance

Ion 97.00 (96.70 to 97.70): VU030033.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU030033.D (-2156) (-)

Ion 83.00 (82.70 to 83.70): VU030033.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU030033.D (-2156) (-)



#46

Tetrachloroethene

Concen: 47.424 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Tgt Ion: 164 Resp: 145863

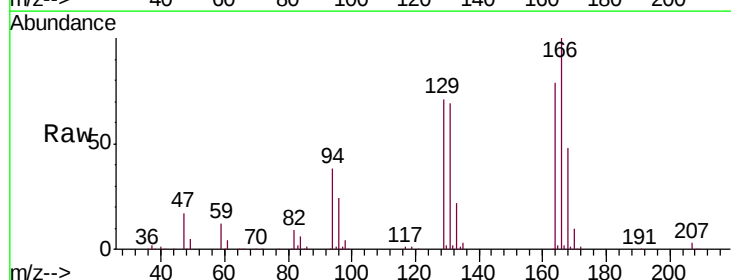
Ion Ratio Lower Upper

164 100

129 88.9 63.3 117.7

131 86.7 62.0 115.2

166 125.8 90.5 168.1



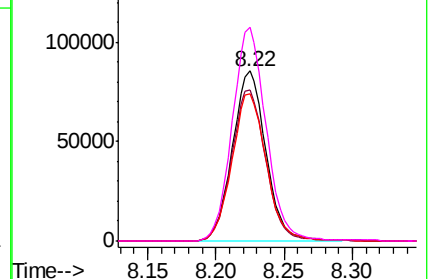
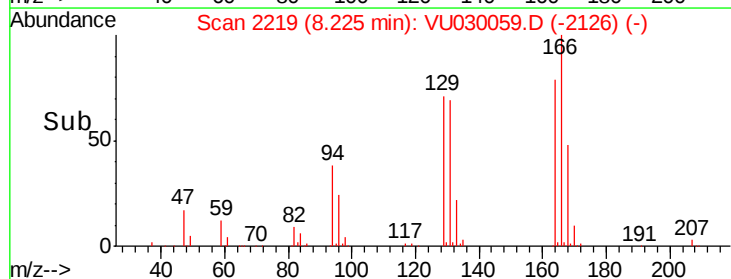
Abundance

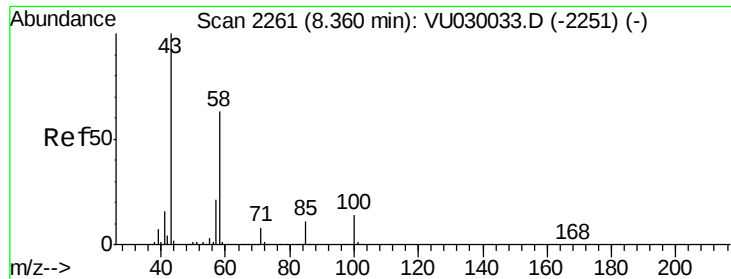
Ion 164.00 (163.70 to 164.70): VU030033.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU030033.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU030033.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU030033.D (-2206) (-)

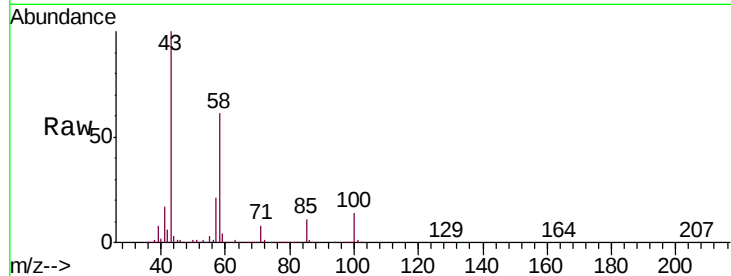




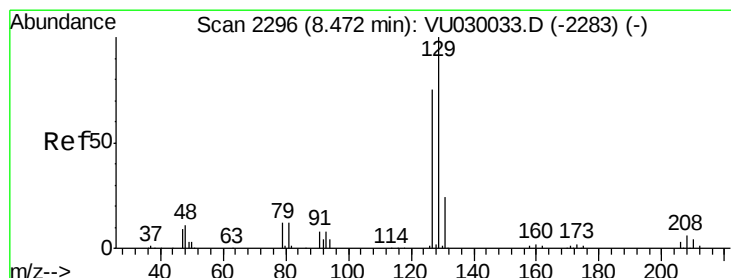
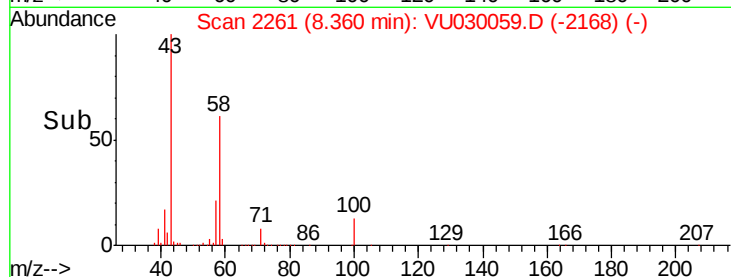
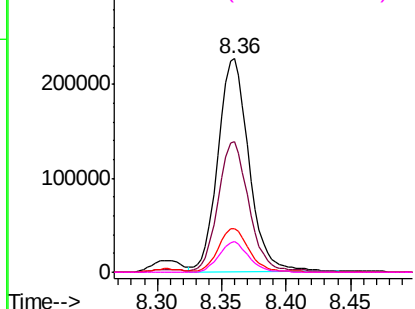
#48
2-Hexanone
Concen: 93.208 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030059.D
Acq: 14 Mar 2019 09:21

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Tgt Ion: 43 Resp: 378714
Ion Ratio Lower Upper
43 100
58 61.6 48.6 72.8
57 20.6 16.1 24.1
100 13.9 11.6 17.4

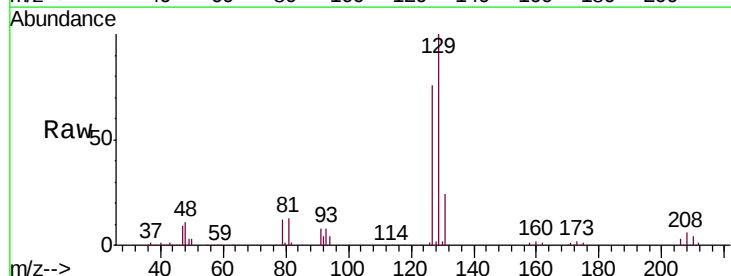


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

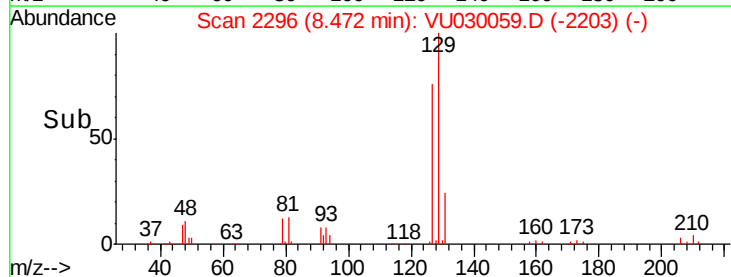
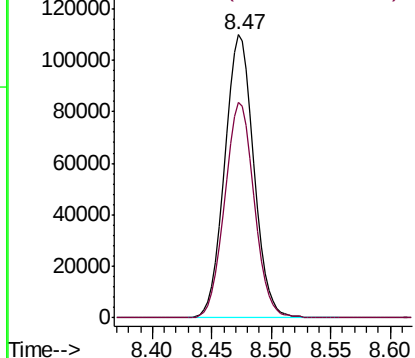


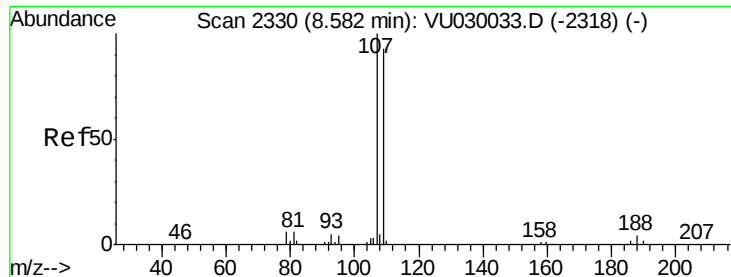
#49
Dibromochloromethane
Concen: 47.360 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030059.D
Acq: 14 Mar 2019 09:21

Tgt Ion: 129 Resp: 186658
Ion Ratio Lower Upper
129 100
127 76.0 55.2 102.4



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

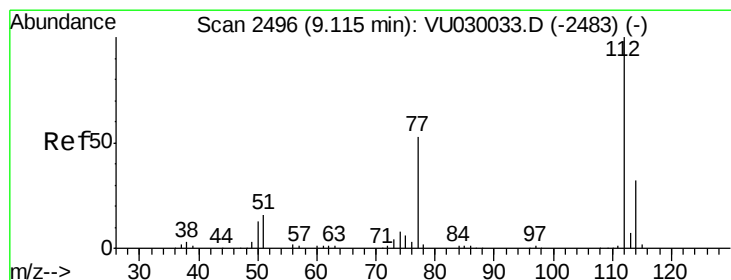
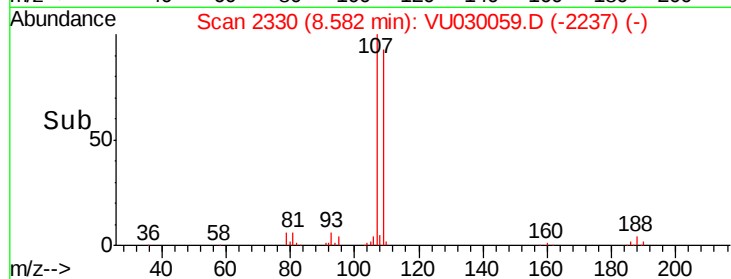
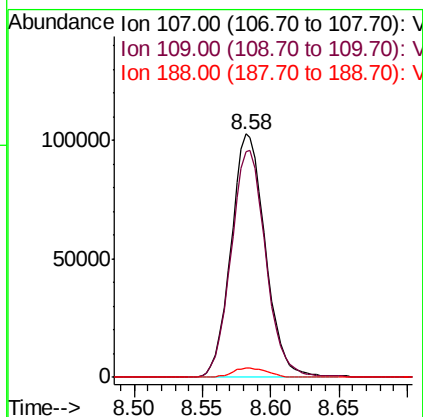
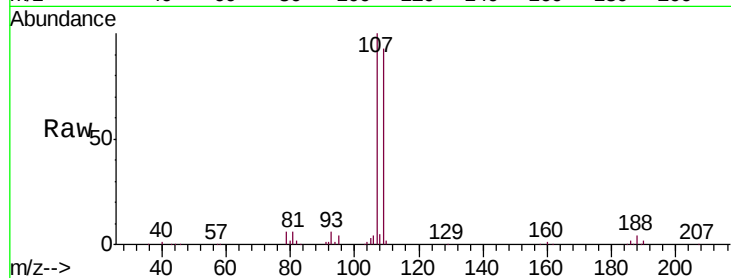




#50
1,2-Dibromoethane
Concen: 46.072 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030059.D
Acq: 14 Mar 2019 09:21

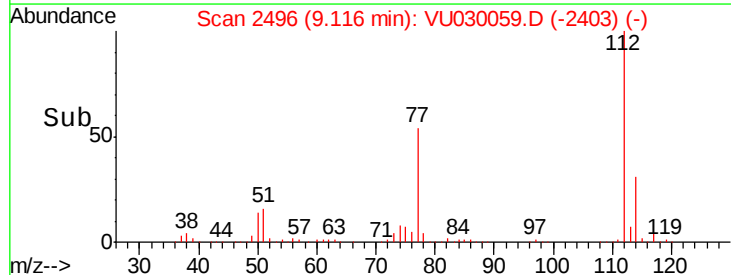
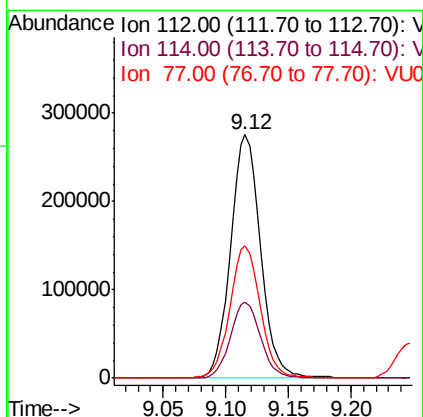
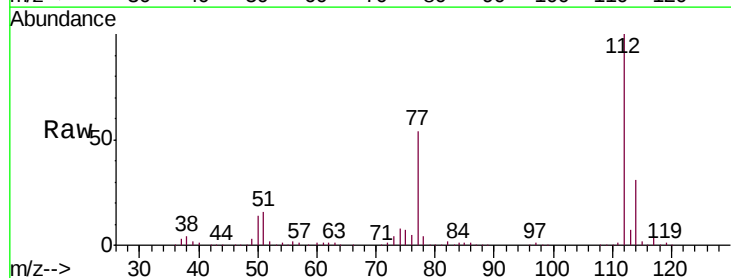
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

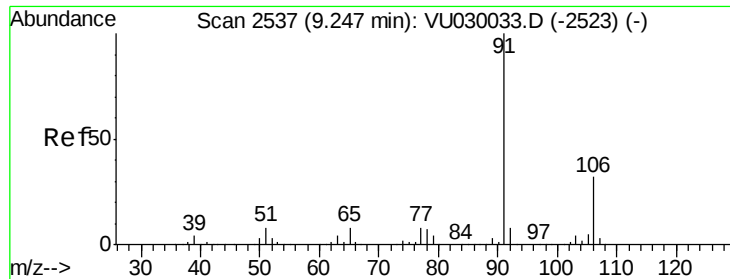
Tgt Ion:107 Resp: 179141
Ion Ratio Lower Upper
107 100
109 92.9 67.8 126.0
188 3.7 3.2 4.8



#51
Chlorobenzene
Concen: 46.549 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030059.D
Acq: 14 Mar 2019 09:21

Tgt Ion:112 Resp: 457552
Ion Ratio Lower Upper
112 100
114 31.2 22.5 41.9
77 54.1 44.6 66.8





#52

Ethylbenzene

Concen: 46.846 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

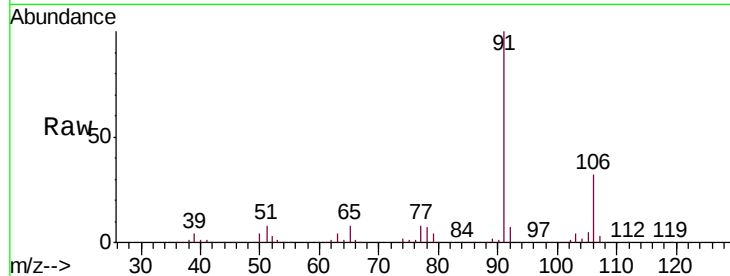
VSTD05035

Tgt Ion: 91 Resp: 751902

Ion Ratio Lower Upper

91 100

106 32.0 22.5 41.9



Abundance Ion 91.00 (90.70 to 91.70): VU030033.D (-2523) (-)

Ion 106.00 (105.70 to 106.70): VU030033.D (-2523) (-)

9.25

500000

400000

300000

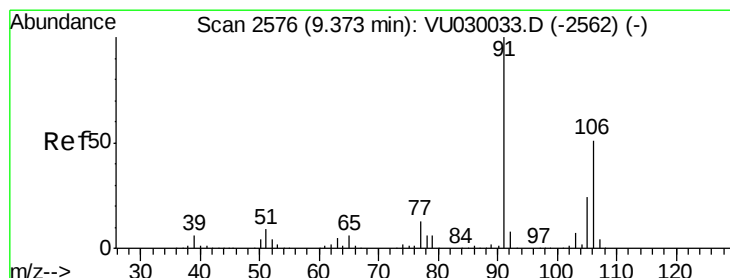
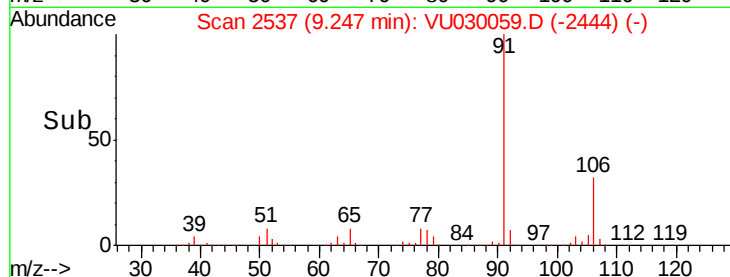
200000

100000

0

Time-->

9.15 9.20 9.25 9.30 9.35



#53

m,p-Xylene

Concen: 47.450 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030059.D

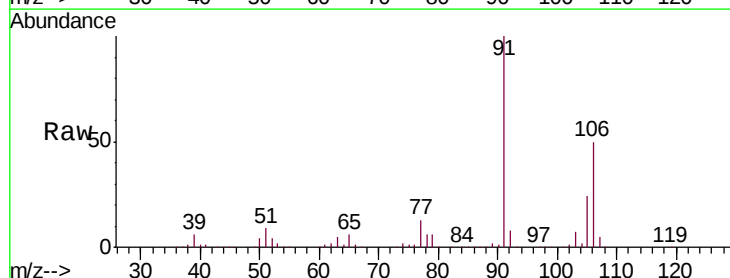
Acq: 14 Mar 2019 09:21

Tgt Ion: 106 Resp: 294659

Ion Ratio Lower Upper

106 100

91 198.3 135.1 250.9



Abundance Ion 106.00 (105.70 to 106.70): VU030033.D (-2562) (-)

Ion 91.00 (90.70 to 91.70): VU030033.D (-2562) (-)

9.37

400000

300000

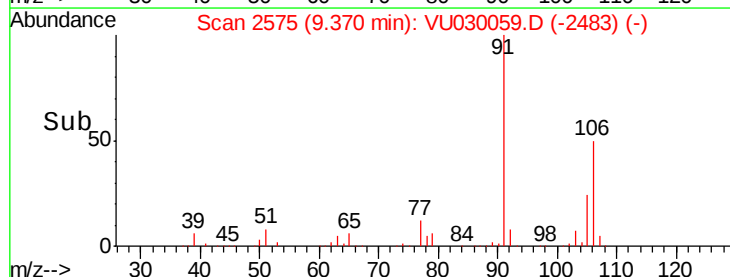
200000

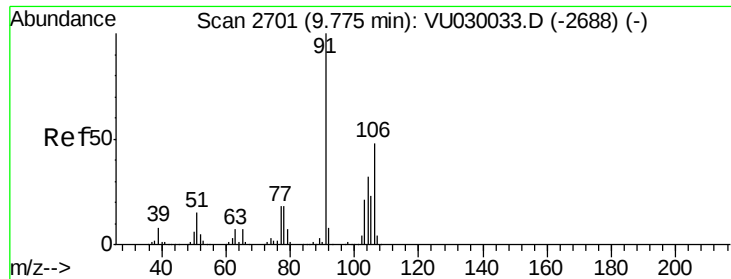
100000

0

Time-->

9.30 9.35 9.40 9.45





#54

o-xylene

Concen: 47.139 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

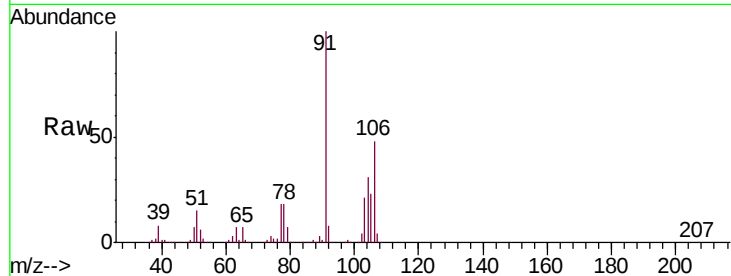
VSTD05035

Tgt Ion:106 Resp: 287522

Ion Ratio Lower Upper

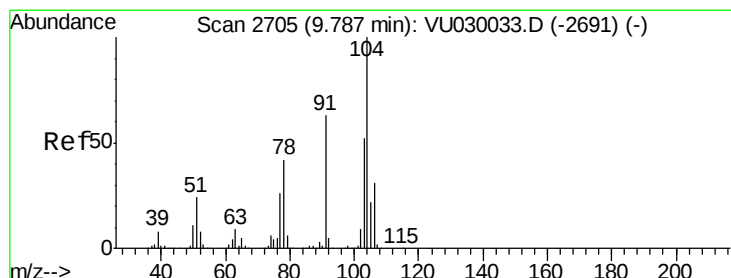
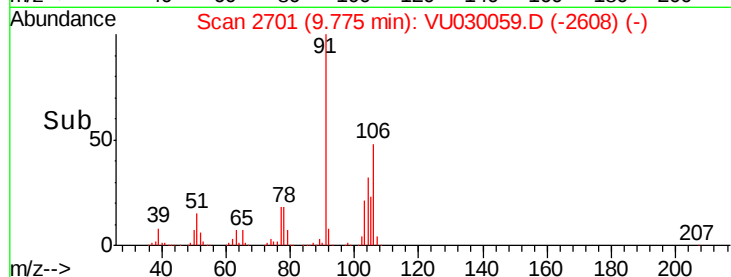
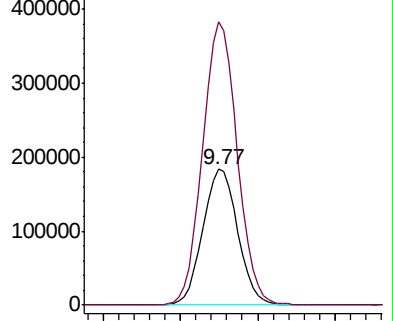
106 100

91 208.8 144.5 268.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 47.746 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030059.D

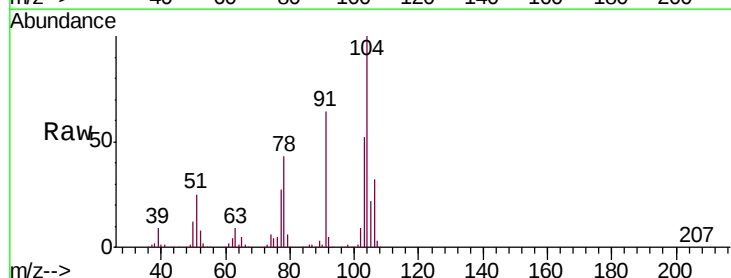
Acq: 14 Mar 2019 09:21

Tgt Ion:104 Resp: 495879

Ion Ratio Lower Upper

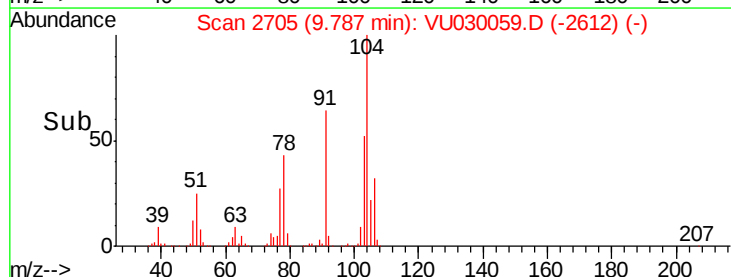
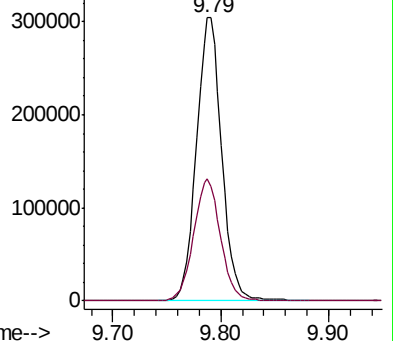
104 100

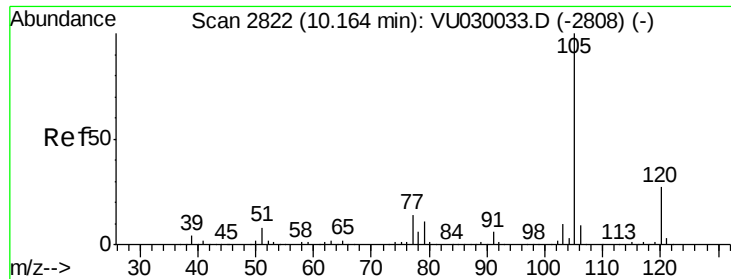
78 43.0 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.384 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

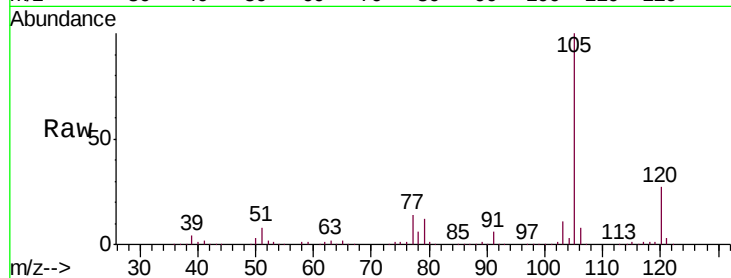
Tgt Ion: 105 Resp: 756646

Ion Ratio Lower Upper

105 100

120 27.0 21.7 32.5

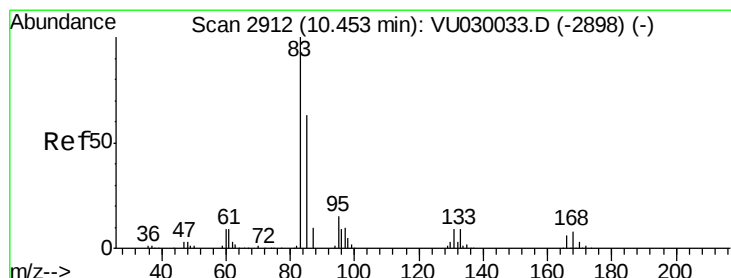
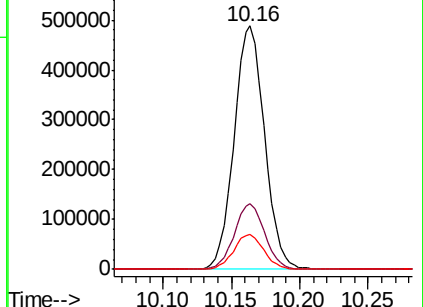
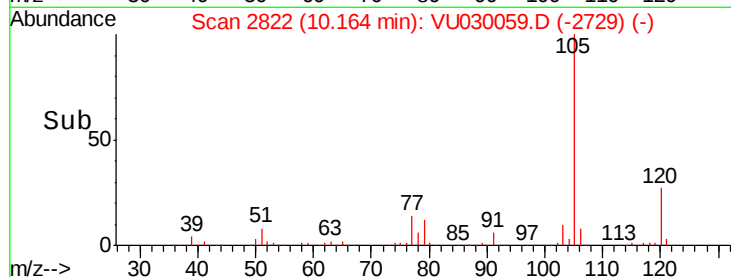
77 14.3 11.1 16.7



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: 46.788 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

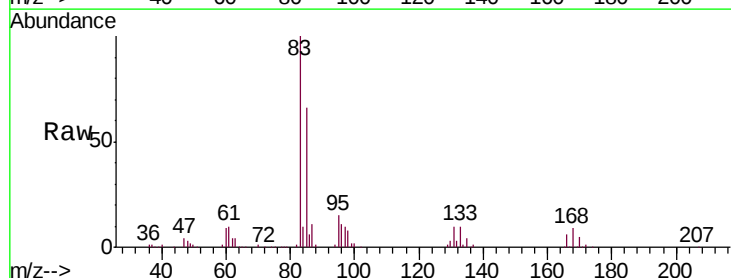
Tgt Ion: 83 Resp: 283275

Ion Ratio Lower Upper

83 100

85 66.3 45.9 85.3

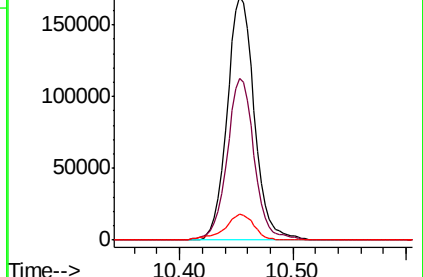
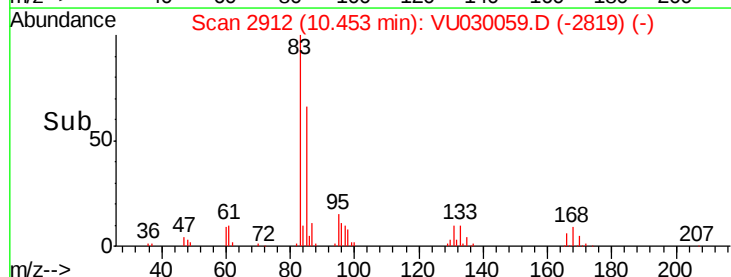
131 10.4 8.5 12.7

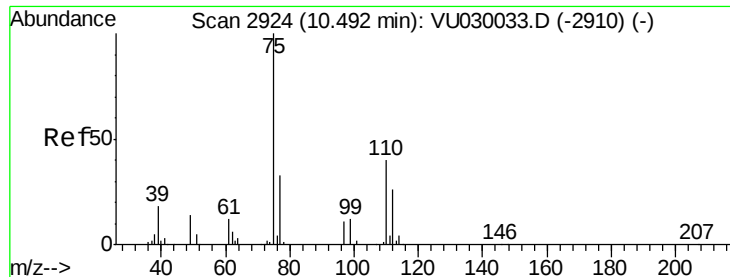


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.646 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

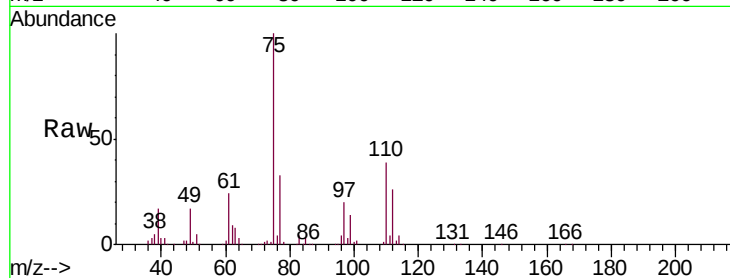
VSTD05035

Tgt Ion: 75 Resp: 214282

Ion Ratio Lower Upper

75 100

77 33.0 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU030033.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU030033.D (-2910) (-)

10.49

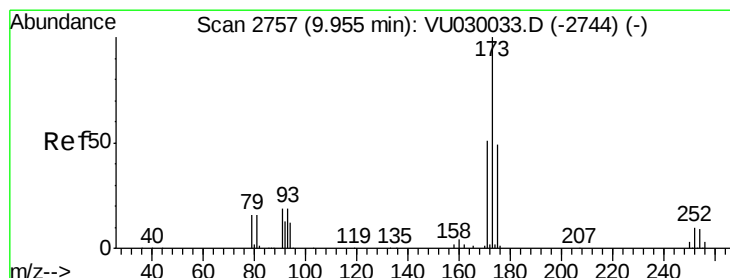
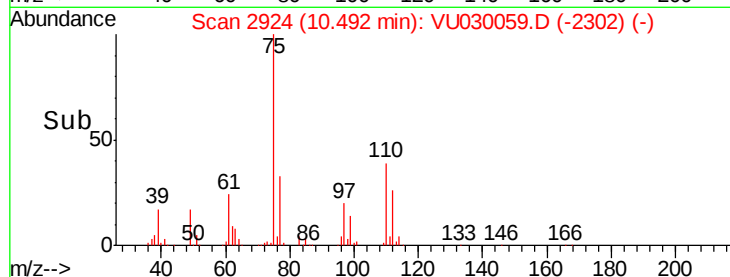
150000

100000

50000

0

Time--> 10.40 10.45 10.50 10.55



#61

Bromoform

Concen: 48.215 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

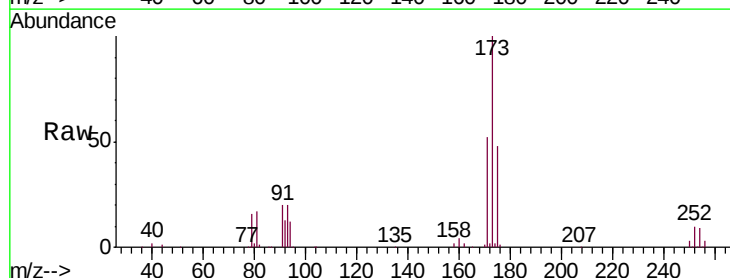
Tgt Ion: 173 Resp: 145943

Ion Ratio Lower Upper

173 100

175 47.9 39.0 58.6

254 8.8 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): VU030033.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU030033.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU030033.D (-2744) (-)

9.95

120000

100000

80000

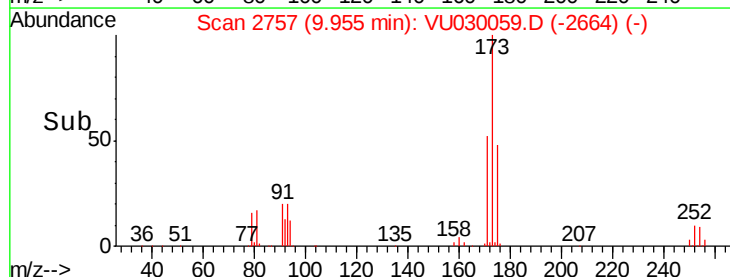
60000

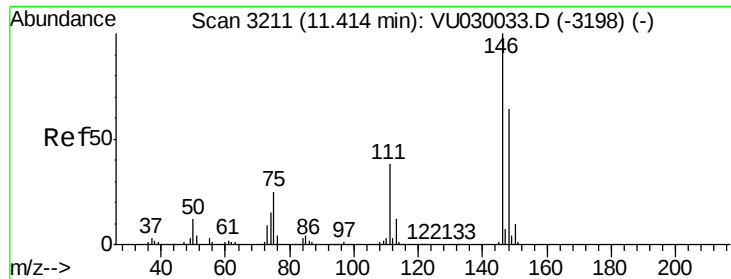
40000

20000

0

Time--> 9.90 9.95 10.00 10.05

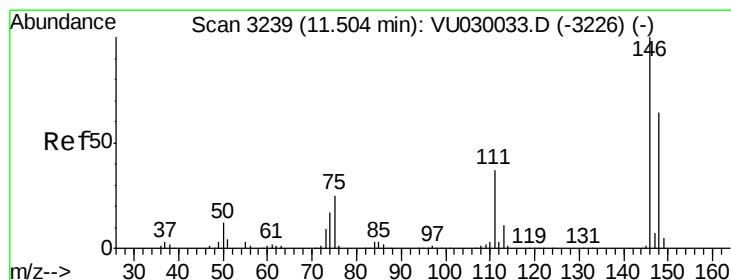
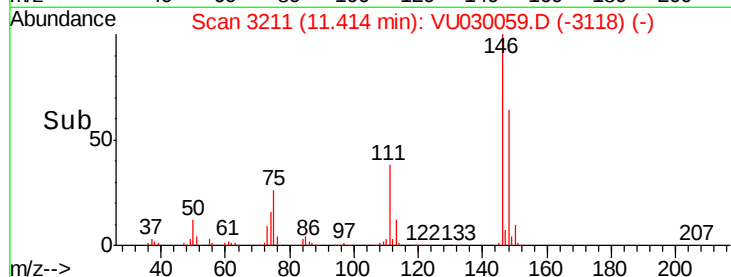
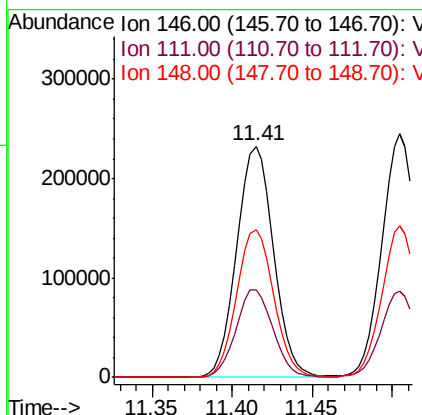
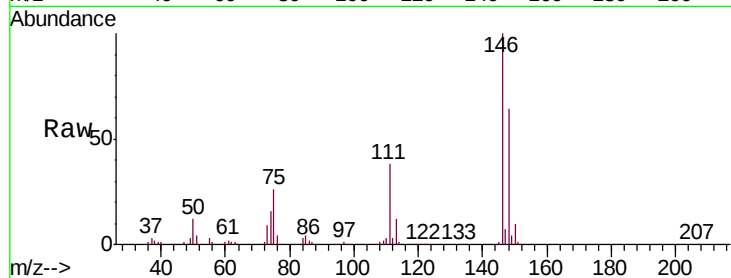




#62
 1,3-Dichlorobenzene
 Concen: 46.512 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

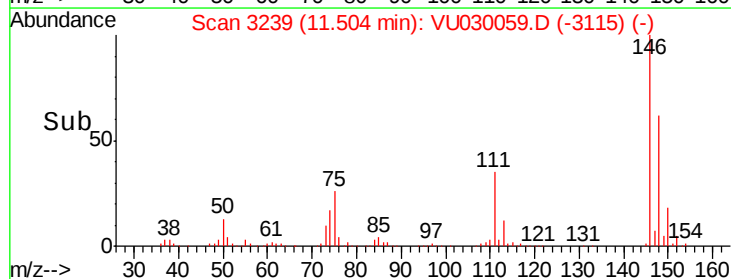
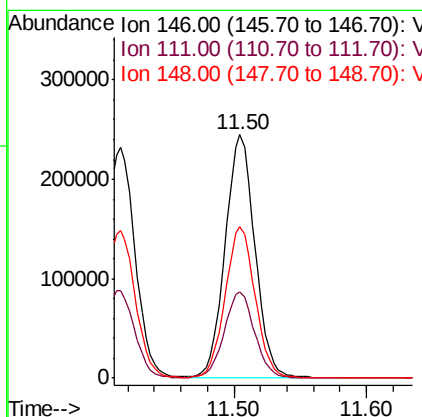
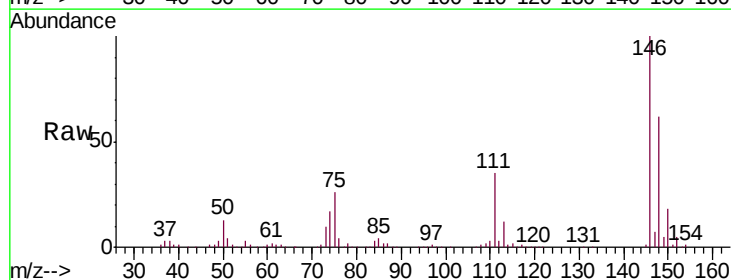
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

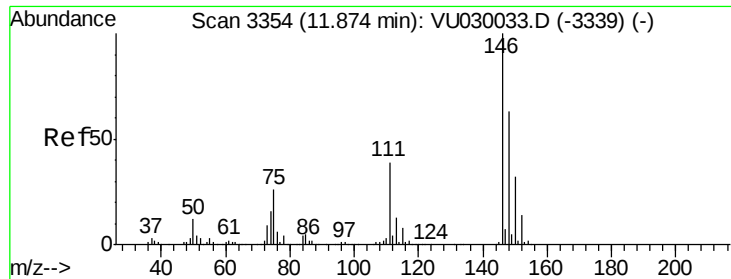
Tgt Ion:146 Resp: 365275
 Ion Ratio Lower Upper
 146 100
 111 37.8 26.7 49.5
 148 64.0 44.9 83.5



#63
 1,4-Dichlorobenzene
 Concen: 47.568 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

Tgt Ion:146 Resp: 379851
 Ion Ratio Lower Upper
 146 100
 111 35.4 25.5 47.3
 148 62.3 45.0 83.6

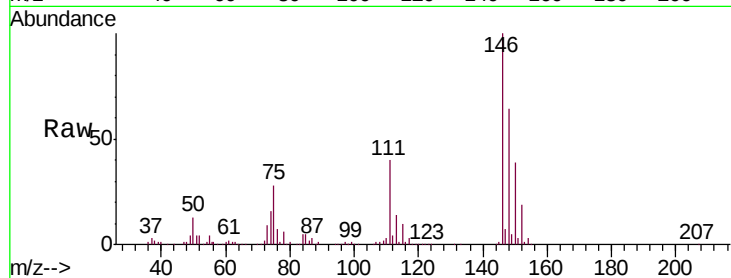




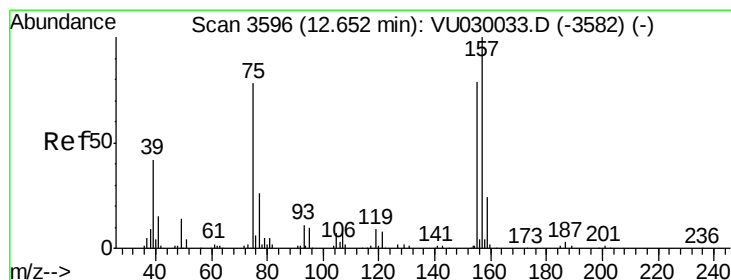
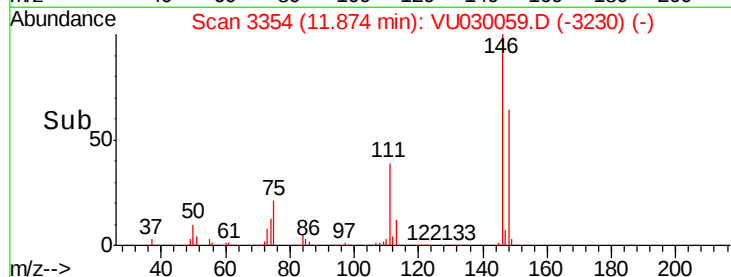
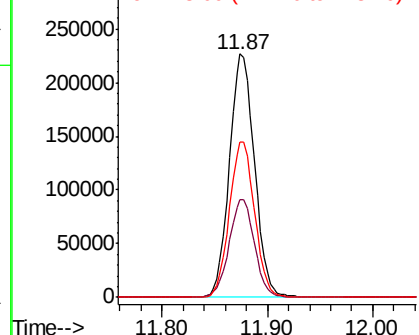
#65
 1,2-Dichlorobenzene
 Concen: 47.028 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

Tgt Ion: 146 Resp: 371758
 Ion Ratio Lower Upper
 146 100
 111 40.2 30.9 46.3
 148 63.7 51.2 76.8

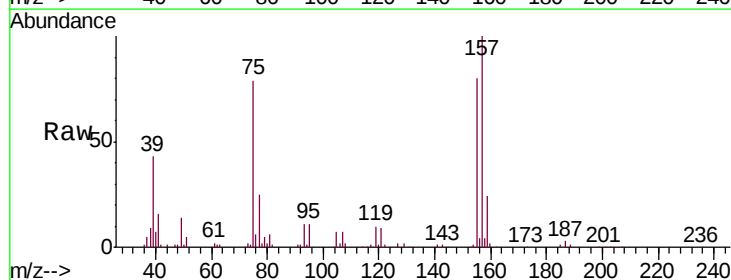


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

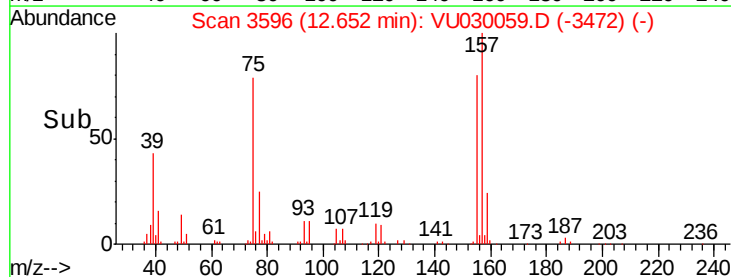
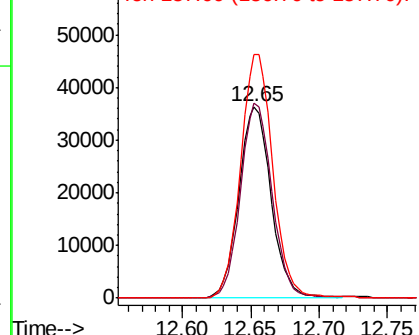


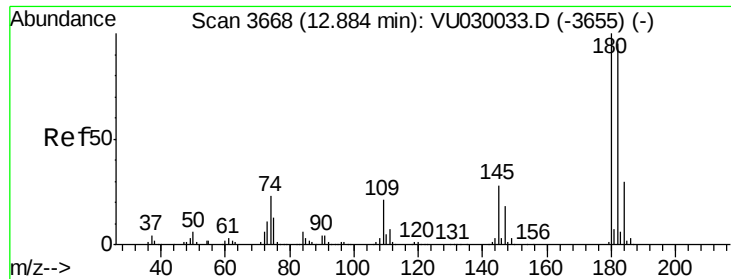
#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.474 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030059.D
 Acq: 14 Mar 2019 09:21

Tgt Ion: 75 Resp: 59700
 Ion Ratio Lower Upper
 75 100
 155 101.7 80.9 121.3
 157 127.2 104.6 156.8



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V





#67

1,3,5-Trichlorobenzene

Concen: 48.149 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

Tgt Ion:180 Resp: 293493

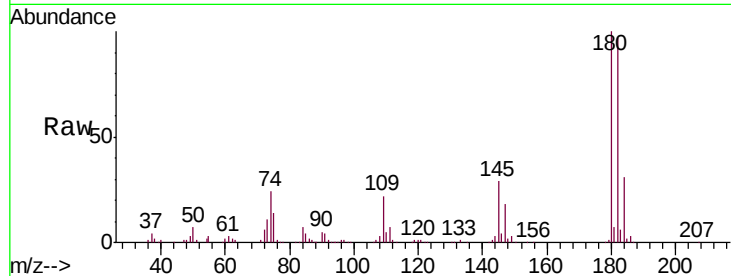
Ion Ratio Lower Upper

180 100

182 97.0 76.3 114.5

184 30.7 24.7 37.1

145 28.4 22.3 33.5

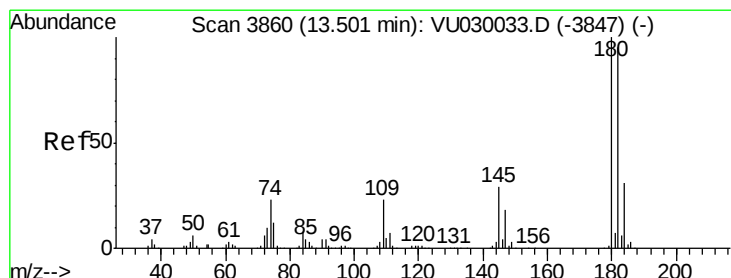
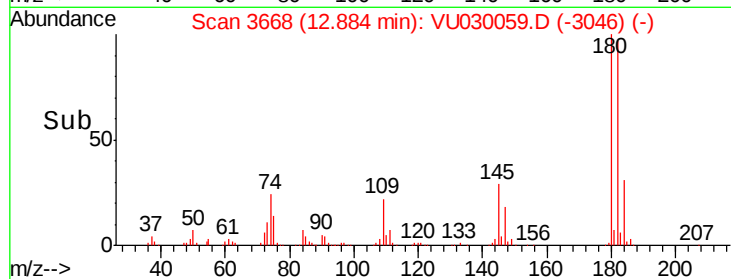
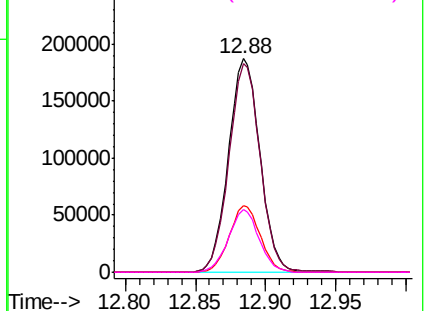


Abundance Ion 180.00 (179.70 to 180.70): V

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: 47.372 ug/L

RT: 13.50 min Scan# 3860

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

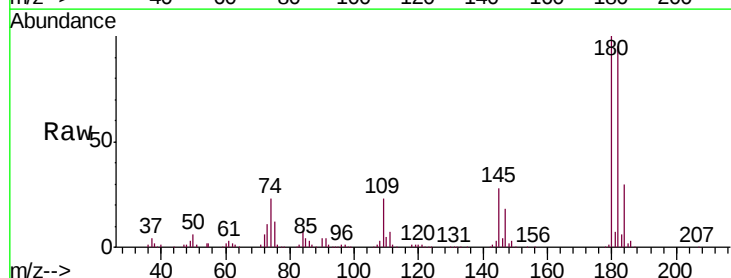
Tgt Ion:180 Resp: 264132

Ion Ratio Lower Upper

180 100

182 95.4 76.1 114.1

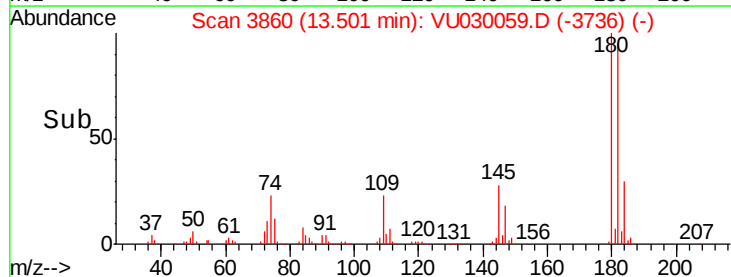
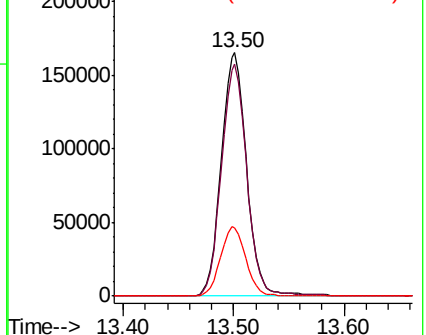
145 28.4 23.0 34.4

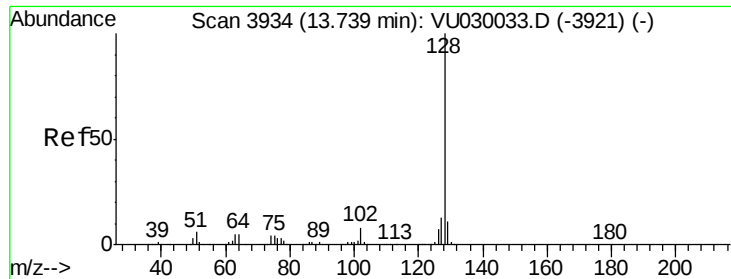


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 44.897 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

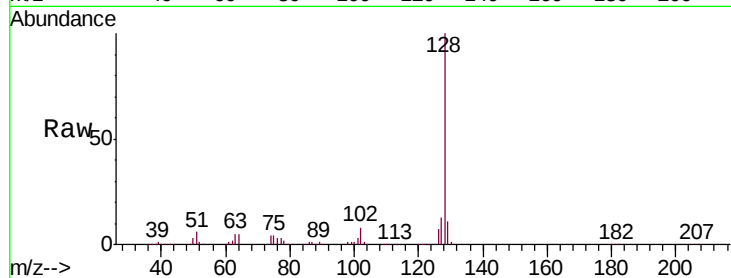
Tgt Ion:128 Resp: 813345

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

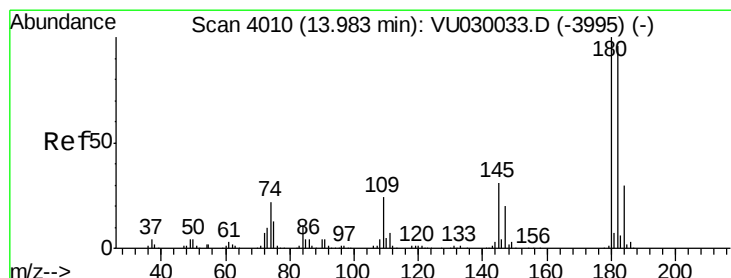
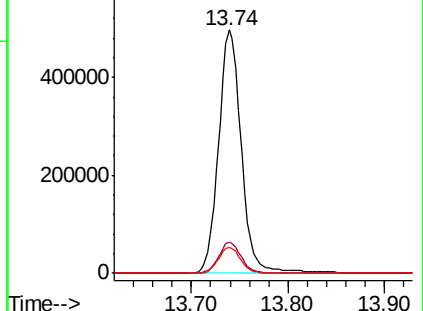
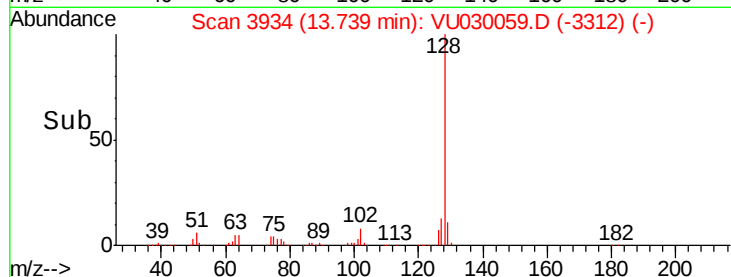
129 10.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 46.952 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030059.D

Acq: 14 Mar 2019 09:21

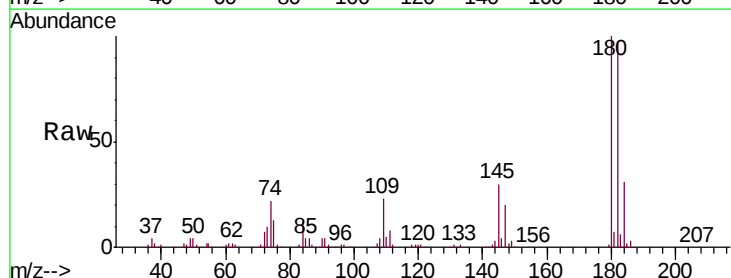
Tgt Ion:180 Resp: 271960

Ion Ratio Lower Upper

180 100

182 97.2 75.9 113.9

145 30.2 24.0 36.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

