

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
 Data File : VU031013.D
 Acq On : 10 Apr 2019 16:05
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Quant Time: Apr 11 05:19:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 09 02:16:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	471304	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	474969	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	224901	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	192267	45.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.40%
7) Chloroethane-d5	1.68	69	157288	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.52%
11) 1,1-Dichloroethene-d2	2.27	63	358792	47.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.30%
21) 2-Butanone-d5	4.17	46	302020	90.58	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	90.58%
24) Chloroform-d	4.64	84	340755	53.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.04%
26) 1,2-Dichloroethane-d4	5.30	65	227617	51.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.80%
32) Benzene-d6	5.33	84	652294	47.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.08%
36) 1,2-Dichloropropane-d6	6.32	67	224005	47.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.28%
41) Toluene-d8	7.56	98	588807	47.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.82%
43) trans-1,3-Dichloropropene-	7.85	79	103833	47.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.84%
47) 2-Hexanone-d5	8.31	63	187207	86.20	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.20%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	322727	50.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.70%
64) 1,2-Dichlorobenzene-d4	11.85	152	220637	49.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.76%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	216007	52.177 ug/L	100
3) Chloromethane	1.32	50	249794	46.648 ug/L	100
5) Vinyl chloride	1.40	62	267410	51.588 ug/L	97
6) Bromomethane	1.62	94	140386	52.274 ug/L	100
8) Chloroethane	1.69	64	153612	51.958 ug/L	99
9) Trichlorofluoromethane	1.88	101	341026	56.462 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	184983	54.813 ug/L	98
12) 1,1-Dichloroethene	2.28	96	168138	51.609 ug/L	98
13) Acetone	2.32	43	358852	105.171 ug/L	99
14) Carbon disulfide	2.47	76	508937	50.287 ug/L	99
15) Methyl Acetate	2.61	43	254640	48.133 ug/L	99
16) Methylene chloride	2.70	84	206933	52.286 ug/L	94
17) trans-1,2-Dichloroethene	2.98	96	174578	50.468 ug/L	98
18) Methyl tert-butyl Ether	2.99	73	561667	48.473 ug/L	99
19) 1,1-Dichloroethane	3.44	63	375575	52.611 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	198198	51.891 ug/L	91
22) 2-Butanone	4.25	43	400347	100.073 ug/L	95

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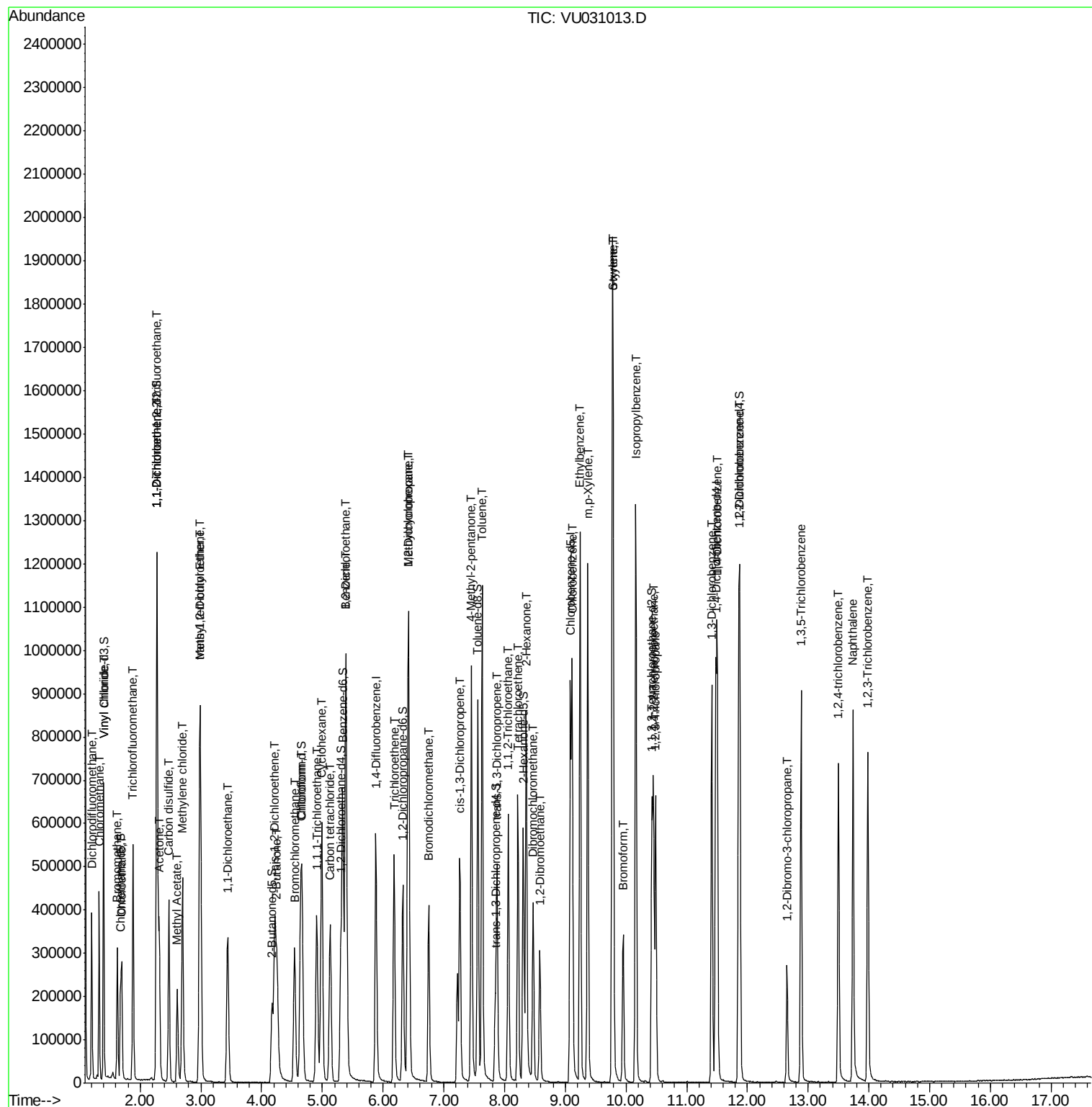
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	102508	56.768	ug/L	91
25) Chloroform	4.67	83	377196	52.572	ug/L	100
27) 1,2-Dichloroethane	5.40	62	289607	52.886	ug/L	99
29) Cyclohexane	4.99	56	306690	45.304	ug/L	94
30) 1,1,1-Trichloroethane	4.91	97	306575	52.963	ug/L	99
31) Carbon tetrachloride	5.13	117	269429	54.014	ug/L	99
33) Benzene	5.38	78	793026	51.021	ug/L	100
34) Trichloroethene	6.18	95	195843	51.373	ug/L	97
35) Methylcyclohexane	6.41	83	298725	50.775	ug/L	98
37) 1,2-Dichloropropane	6.43	63	217126	49.334	ug/L	99
38) Bromodichloromethane	6.75	83	274541	51.708	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	313309	50.014	ug/L	98
40) 4-Methyl-2-pentanone	7.45	43	662591	93.620	ug/L	99
42) Toluene	7.63	91	831624	52.416	ug/L	98
44) trans-1,3-Dichloropropene	7.87	75	284156	51.472	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	193491	51.838	ug/L	99
46) Tetrachloroethene	8.22	164	148617	53.622	ug/L	98
48) 2-Hexanone	8.36	43	557404	100.947	ug/L	99
49) Dibromochloromethane	8.47	129	212670	53.695	ug/L	100
50) 1,2-Dibromoethane	8.58	107	204816	50.709	ug/L	98
51) Chlorobenzene	9.12	112	502121	51.601	ug/L	99
52) Ethylbenzene	9.25	91	888254	51.361	ug/L	99
53) m,p-Xylene	9.37	106	324493	53.799	ug/L	100
54) o-xylene	9.77	106	307892	51.319	ug/L	96
55) Styrene	9.79	104	571438	55.529	ug/L	100
56) Isopropylbenzene	10.16	105	833555	52.770	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	342710	50.760	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	274949	52.161	ug/L	97
61) Bromoform	9.95	173	156924	52.818	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	362155	50.950	ug/L	96
63) 1,4-Dichlorobenzene	11.50	146	377103	52.157	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	379445	53.219	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	73244	48.323	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	273754	52.699	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	228119	51.650	ug/L	99
69) Naphthalene	13.74	128	697896	48.743	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	243908	52.856	ug/L	99

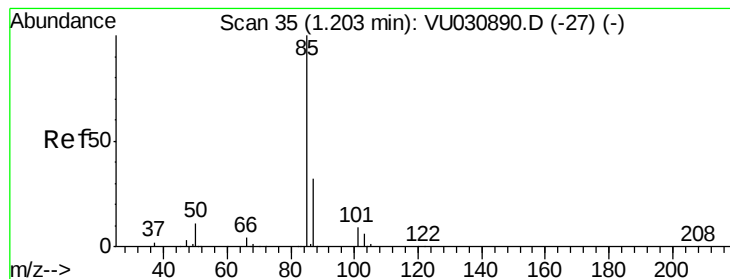
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 52.177 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

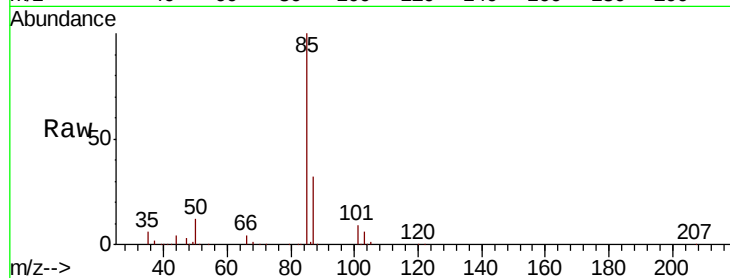
VSTD05058

Tot Ion: 85 Resp: 216007

Ion Ratio Lower Upper

85 100

87 31.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU031013.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031013.D (-1) (-)

1.20

200000

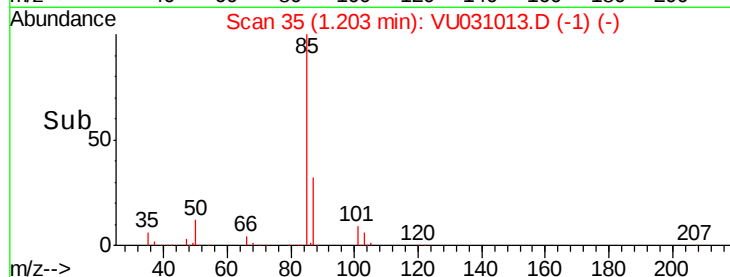
150000

100000

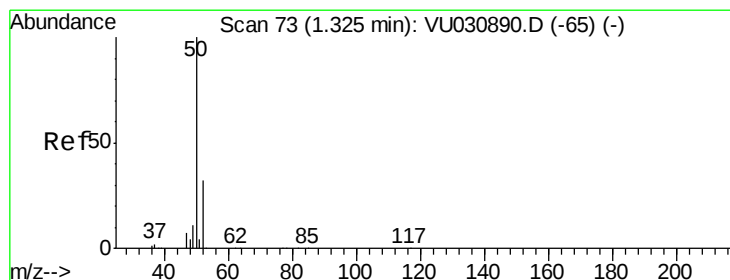
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 46.648 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031013.D

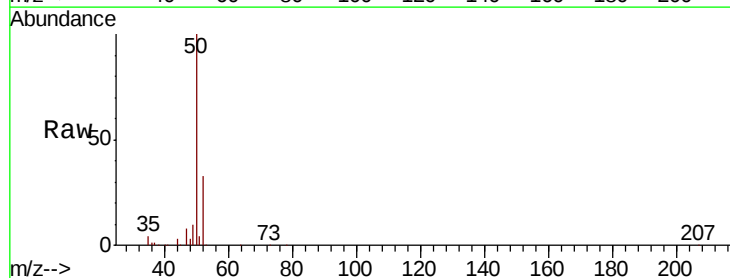
Acq: 10 Apr 2019 16:05

Tgt Ion: 50 Resp: 249794

Ion Ratio Lower Upper

50 100

52 32.5 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU031013.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU031013.D (-1) (-)

1.32

300000

250000

200000

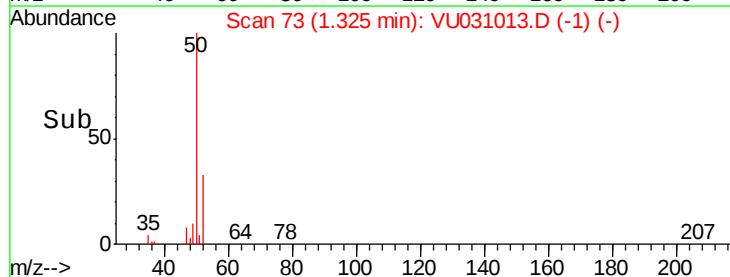
150000

100000

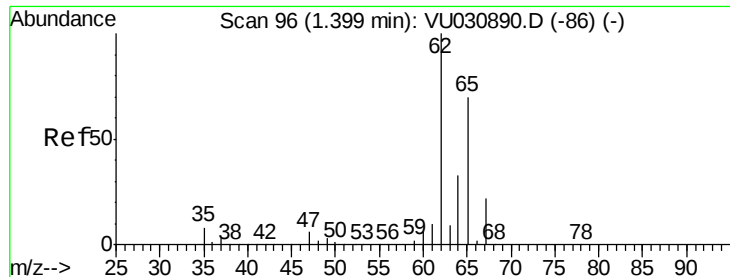
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 51.588 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

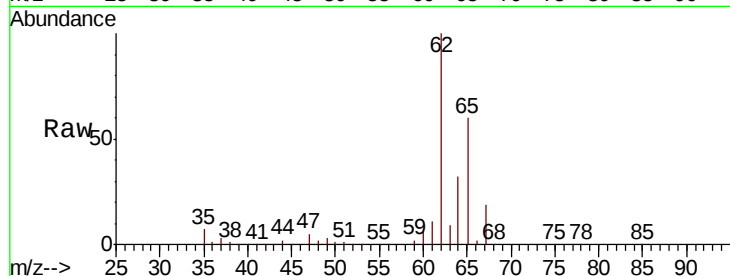
VSTD05058

Tot Ion: 62 Resp: 267410

Ion Ratio Lower Upper

62 100

64 32.4 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU031013.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU031013.D (-86) (-)

1.40

250000

200000

150000

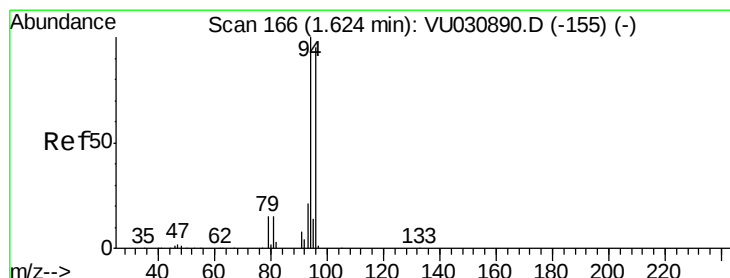
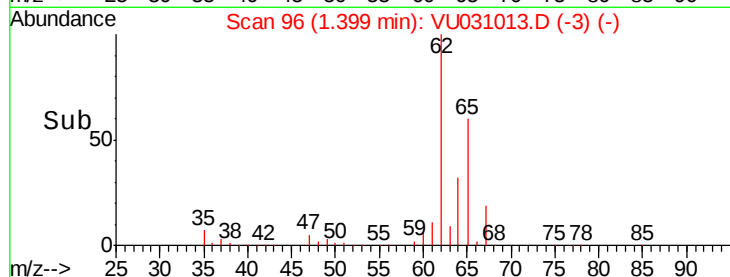
100000

50000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 52.274 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU031013.D

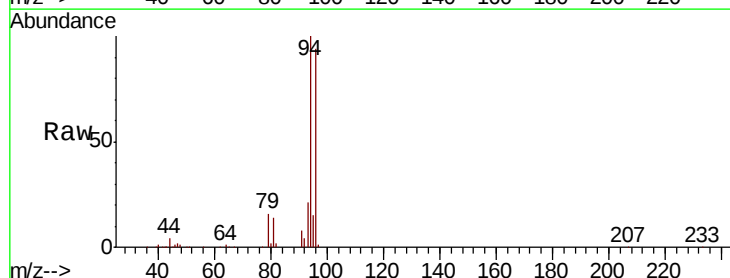
Acq: 10 Apr 2019 16:05

Tgt Ion: 94 Resp: 140386

Ion Ratio Lower Upper

94 100

96 94.0 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU031013.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU031013.D (-155) (-)

1.62

120000

100000

80000

60000

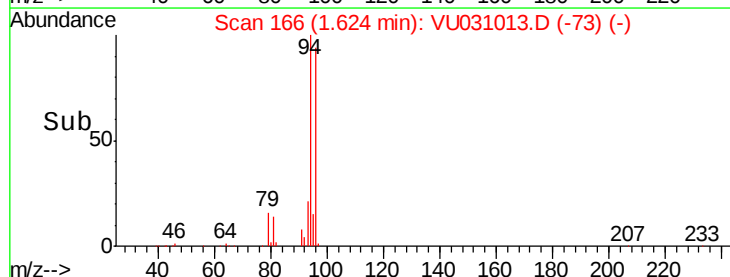
40000

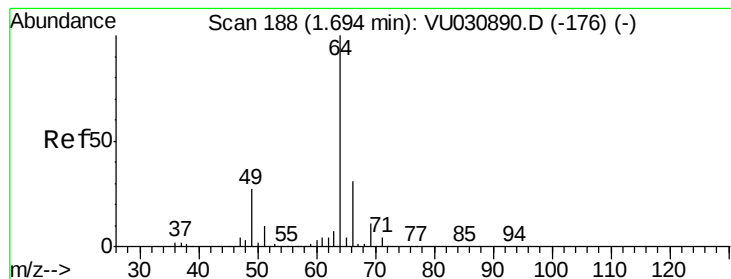
20000

0

Time-->

1.55 1.60 1.65 1.70





#8

Chloroethane

Concen: 51.958 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

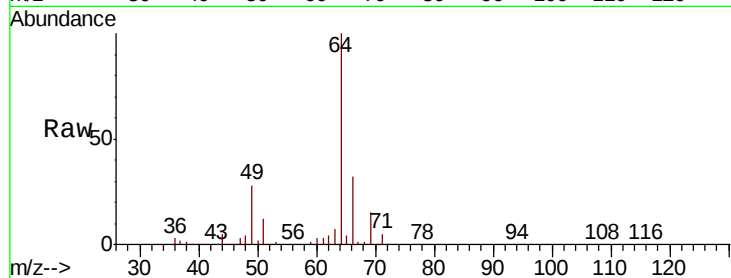
VSTD05058

Tot Ion: 64 Resp: 153612

Ion Ratio Lower Upper

64 100

66 32.3 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU031013.D (-64) (-)

Ion 66.00 (65.70 to 66.70): VU031013.D (-66) (-)

1.69

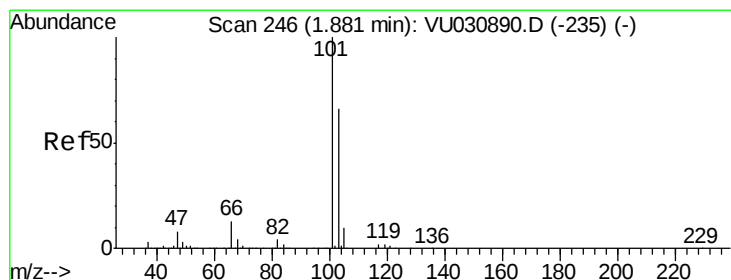
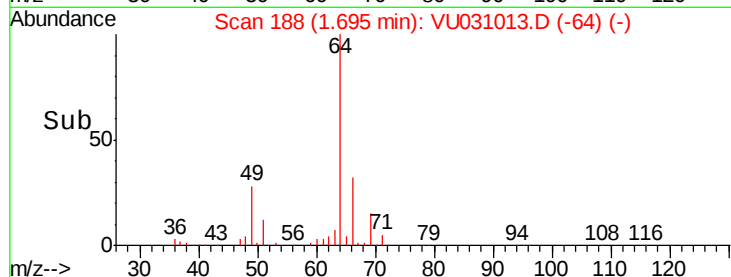
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 56.462 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU031013.D

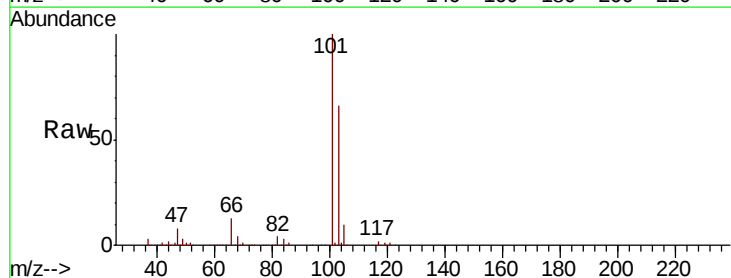
Acq: 10 Apr 2019 16:05

Tgt Ion:101 Resp: 341026

Ion Ratio Lower Upper

101 100

103 64.3 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU031013.D (-101) (-)

Ion 103.00 (102.70 to 103.70): VU031013.D (-103) (-)

1.88

250000

200000

150000

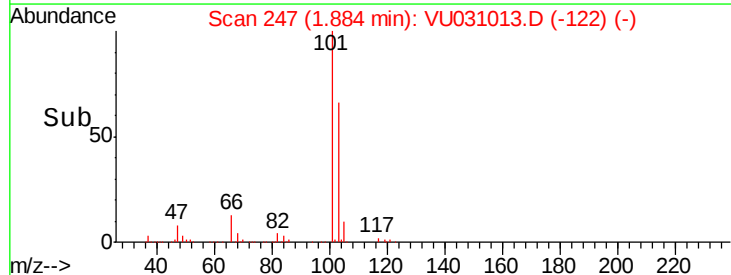
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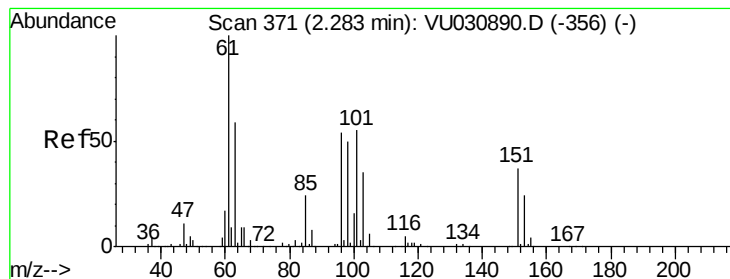
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 54.813 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

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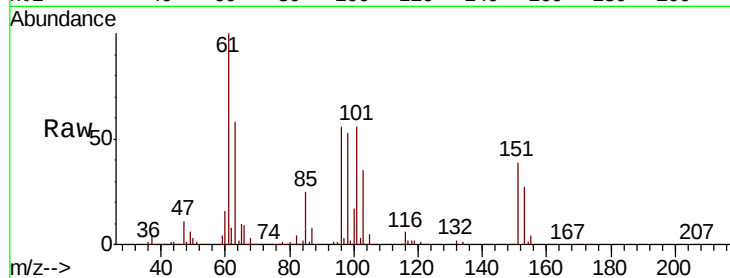
Tot Ion:101 Resp: 184983

Ion Ratio Lower Upper

101 100

85 43.6 36.8 55.2

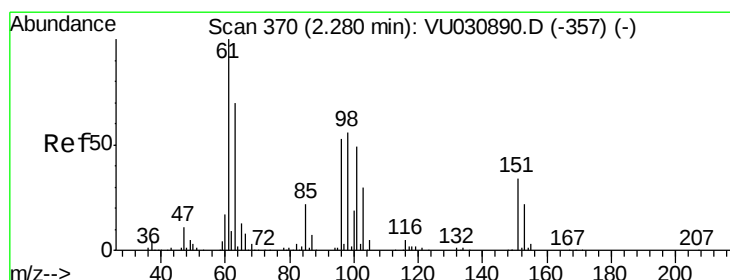
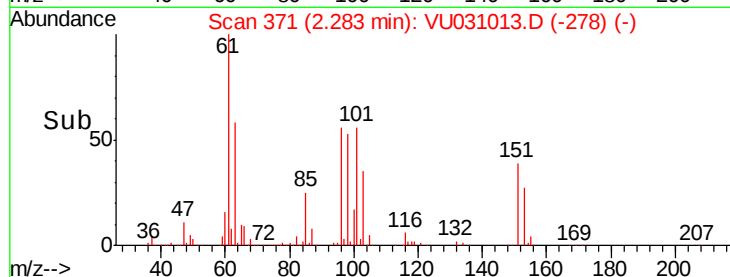
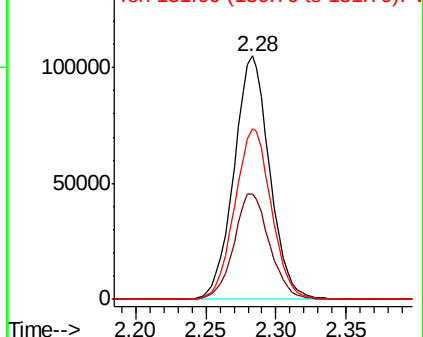
151 72.1 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 51.609 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

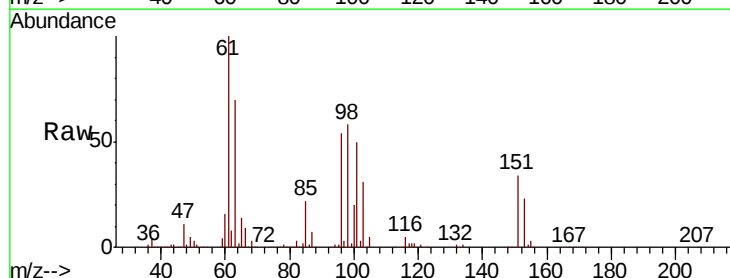
Tgt Ion: 96 Resp: 168138

Ion Ratio Lower Upper

96 100

61 184.5 132.0 245.2

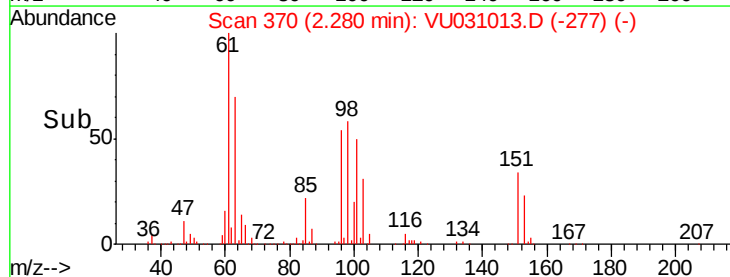
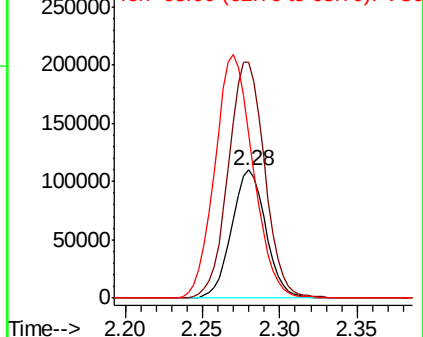
63 129.0 90.9 168.9

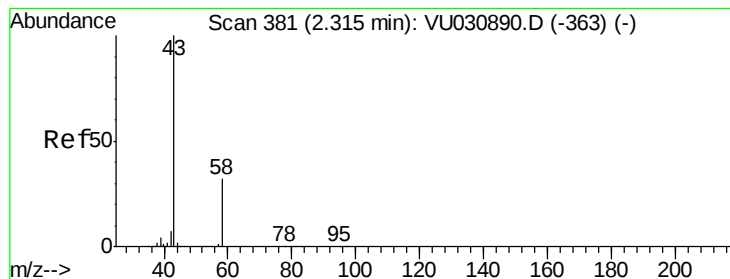


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 105.171 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

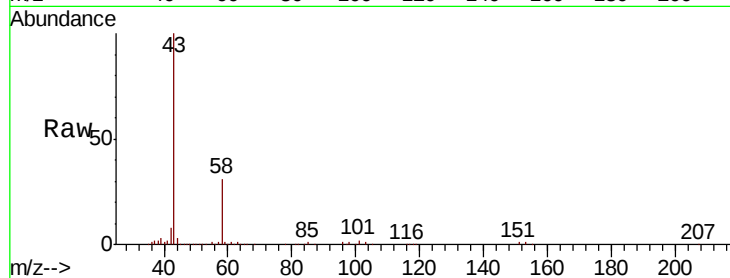
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

Tot Ion: 43 Resp: 358852

Ion Ratio Lower Upper

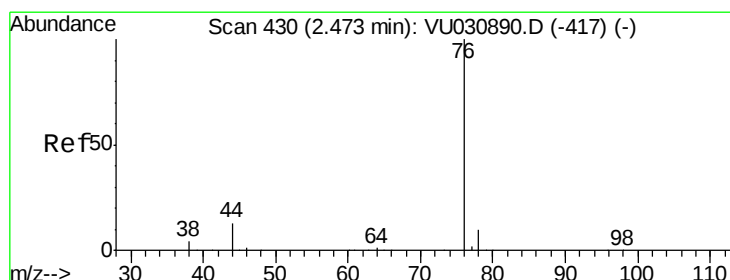
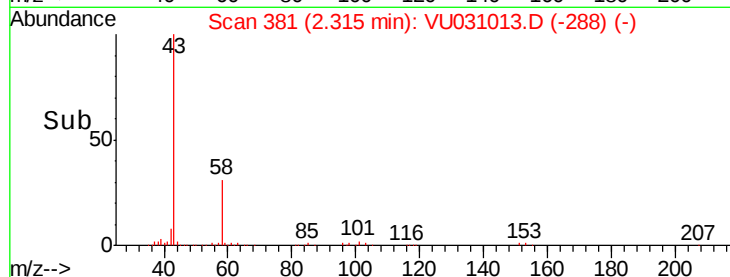
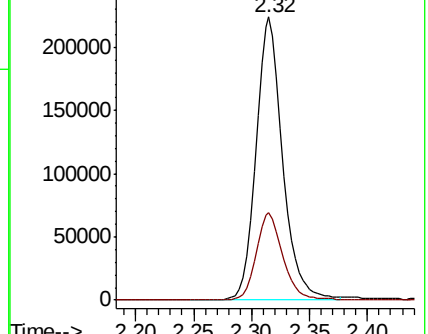
43 100

58 31.4 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU031013.D (-288) (-)

Ion 58.00 (57.70 to 58.70): VU031013.D (-288) (-)



#14

Carbon disulfide

Concen: 50.287 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031013.D

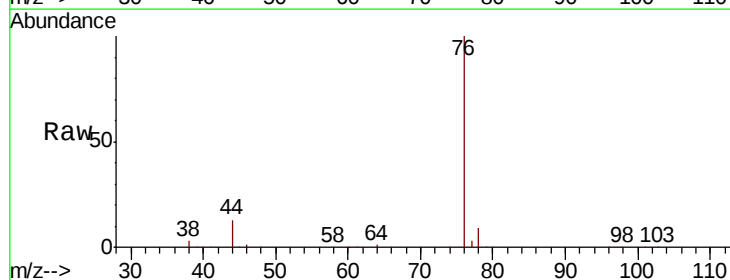
Acq: 10 Apr 2019 16:05

Tgt Ion: 76 Resp: 508937

Ion Ratio Lower Upper

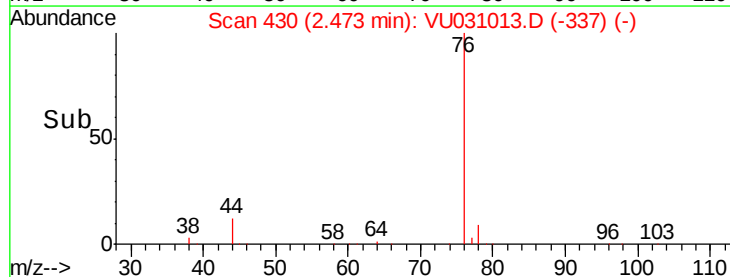
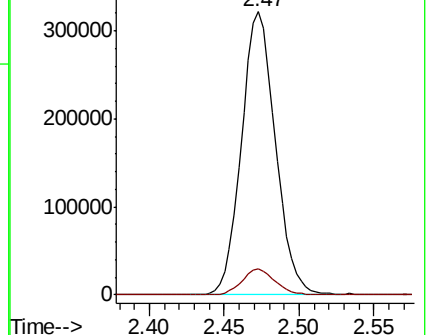
76 100

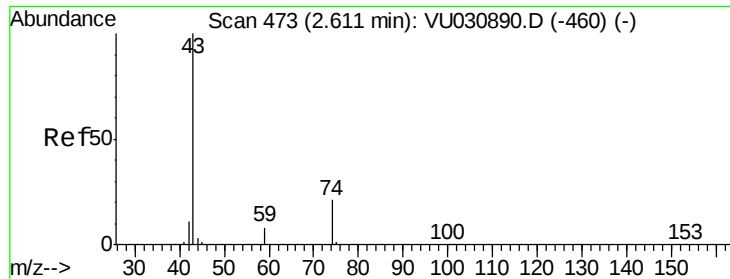
78 9.1 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VU031013.D (-337) (-)

Ion 78.00 (77.70 to 78.70): VU031013.D (-337) (-)





#15

Methyl Acetate

Concen: 48.133 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

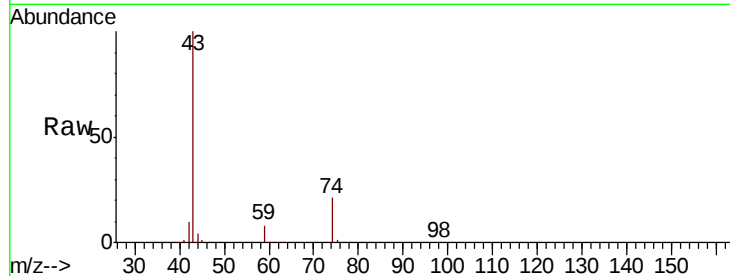
VSTD05058

Tot Ion: 43 Resp: 254640

Ion Ratio Lower Upper

43 100

74 21.1 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VU031013.D (-380) (-)

Ion 74.00 (73.70 to 74.70): VU031013.D (-380) (-)

2.61

150000

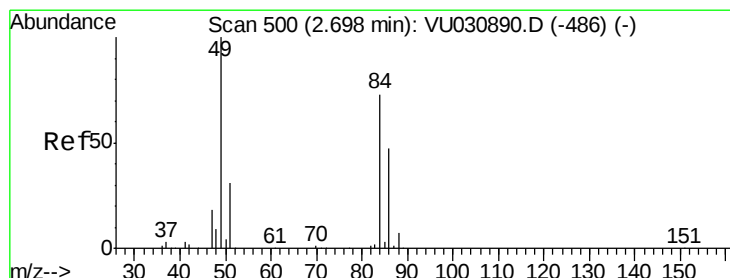
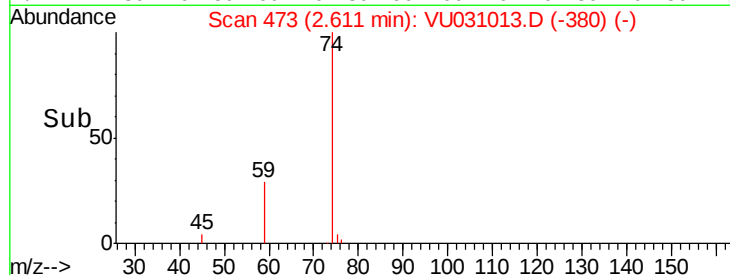
100000

50000

0

2.55 2.60 2.65 2.70

Time-->



#16

Methylene chloride

Concen: 52.286 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

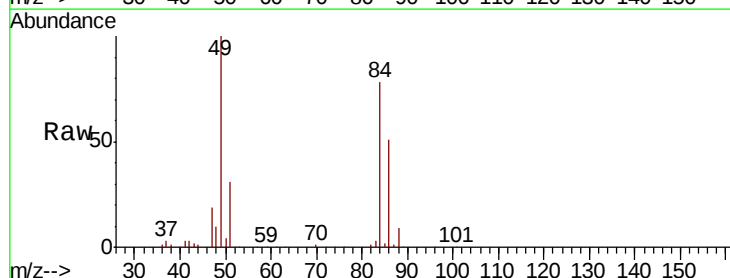
Tgt Ion: 84 Resp: 206933

Ion Ratio Lower Upper

84 100

86 65.1 45.1 83.7

49 128.2 96.5 179.1



Abundance Ion 84.00 (83.70 to 84.70): VU031013.D (-407) (-)

Ion 86.00 (85.70 to 86.70): VU031013.D (-407) (-)

Ion 49.00 (48.70 to 49.70): VU031013.D (-407) (-)

200000

150000

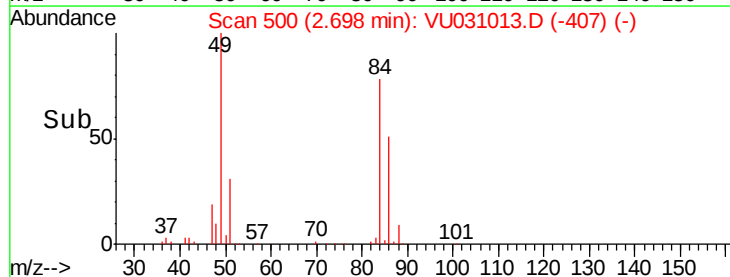
100000

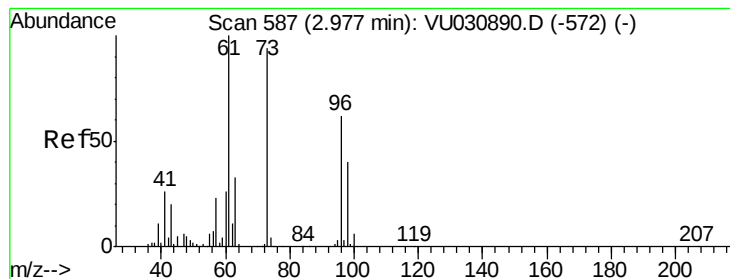
50000

0

2.60 2.65 2.70 2.75 2.80

Time-->





#17

trans-1,2-Dichloroethene

Concen: 50.468 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

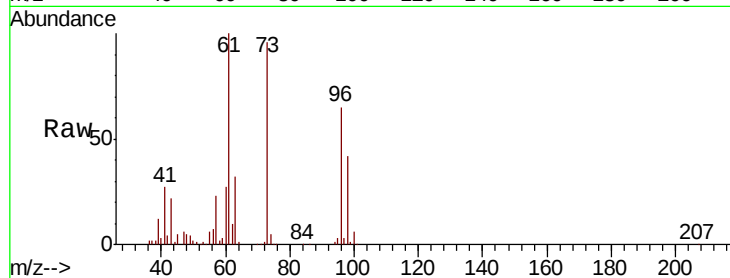
Tot Ion: 96 Resp: 174578

Ion Ratio Lower Upper

96 100

61 154.1 109.5 203.3

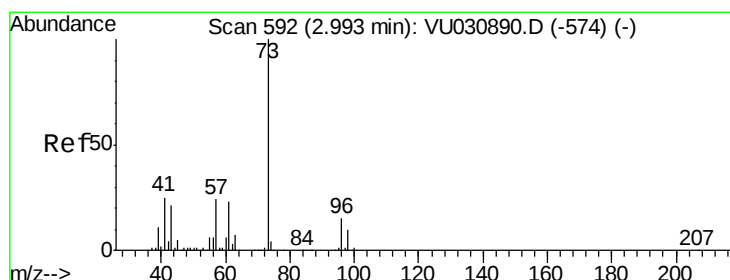
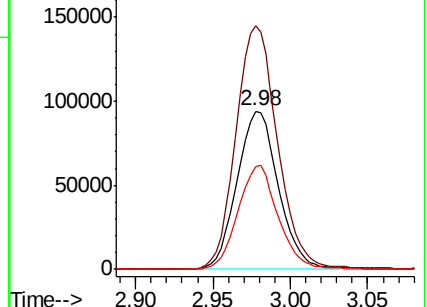
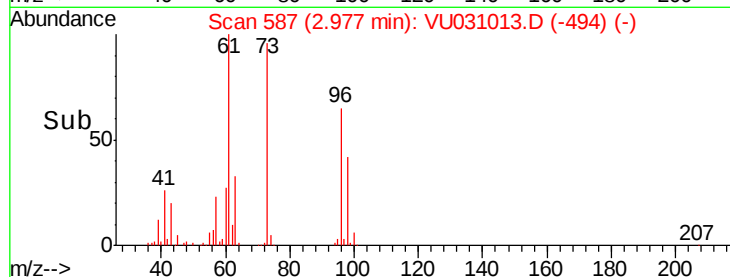
98 65.2 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031013.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU031013.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU031013.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 48.473 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

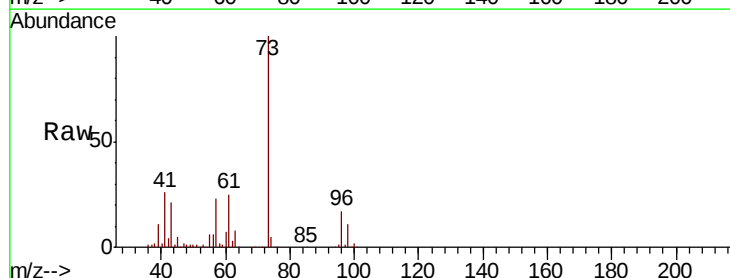
Tgt Ion: 73 Resp: 561667

Ion Ratio Lower Upper

73 100

43 21.1 16.4 24.6

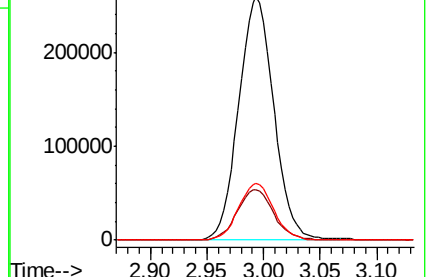
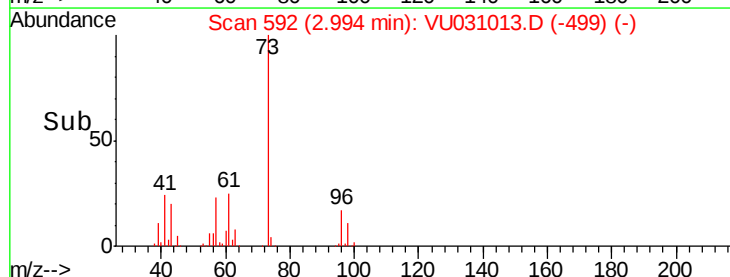
57 23.4 19.0 28.4

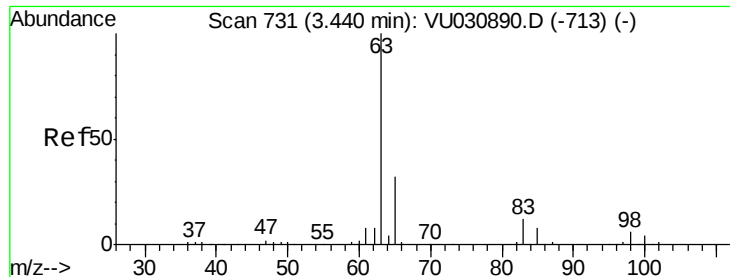


Abundance Ion 73.00 (72.70 to 73.70): VU031013.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031013.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031013.D (-499) (-)

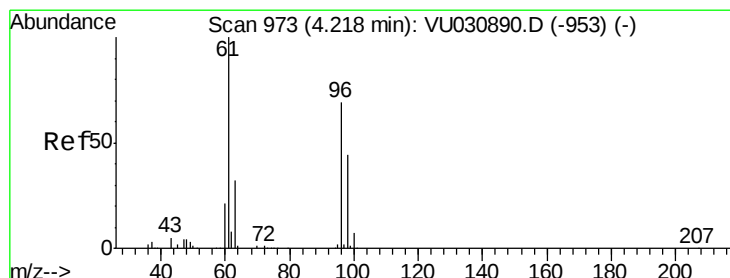
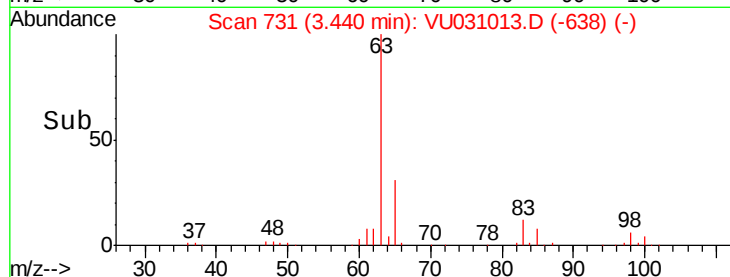
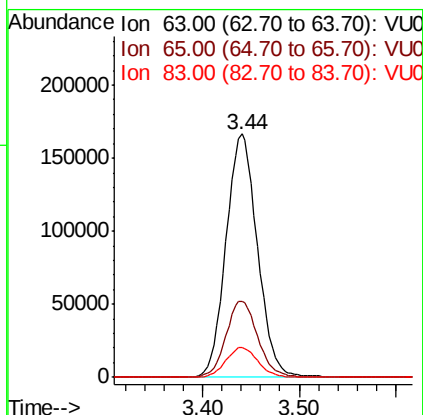
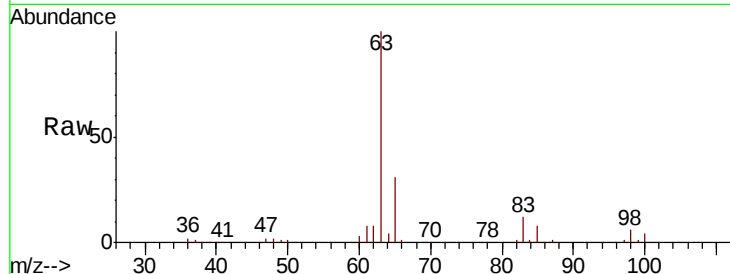




#19
 1,1-Dichloroethane
 Concen: 52.611 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

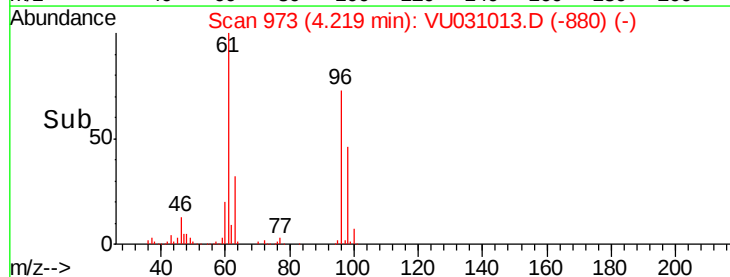
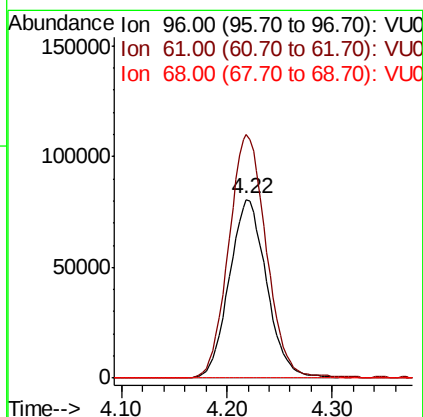
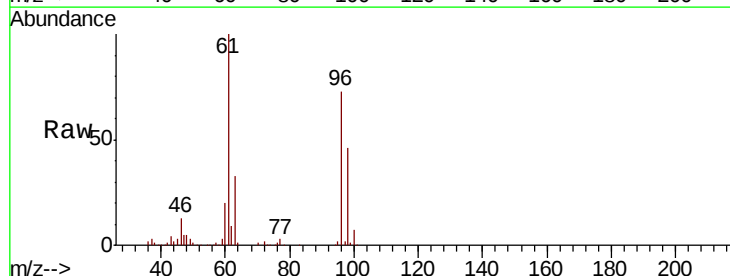
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

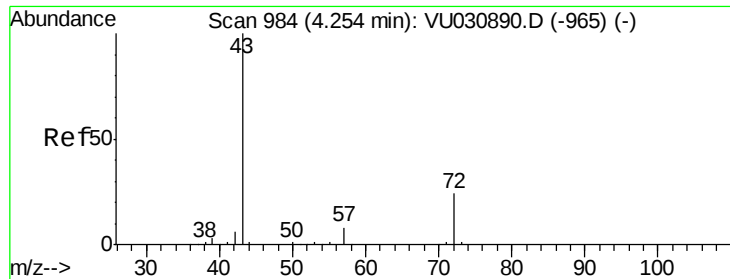
Tot Ion: 63 Resp: 375575
 Ion Ratio Lower Upper
 63 100
 65 31.2 21.4 39.8
 83 12.4 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 51.891 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

Tgt Ion: 96 Resp: 198198
 Ion Ratio Lower Upper
 96 100
 61 136.2 102.9 191.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 100.073 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

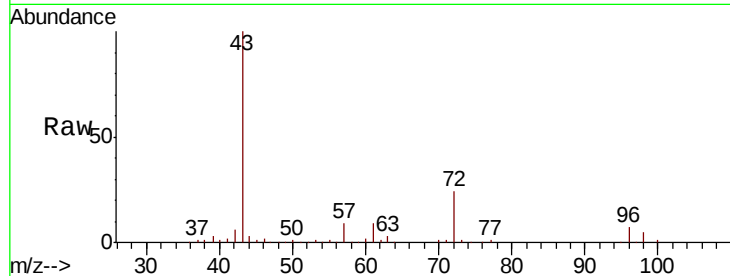
VSTD05058

Tot Ion: 43 Resp: 400347

Ion Ratio Lower Upper

43 100

72 24.0 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU031013.D (-891) (-)

Ion 72.00 (71.70 to 72.70): VU031013.D (-891) (-)

4.25

150000

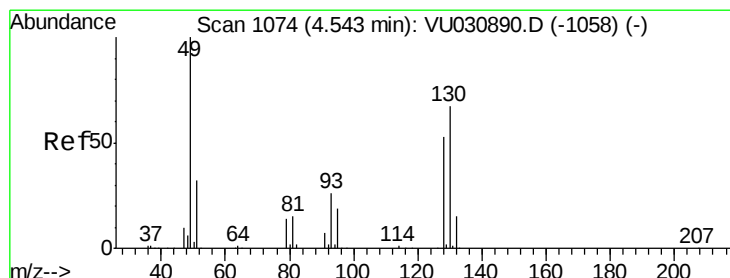
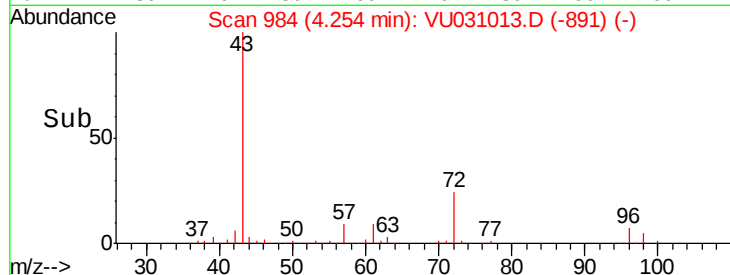
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 56.768 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Tgt Ion:128 Resp: 102508

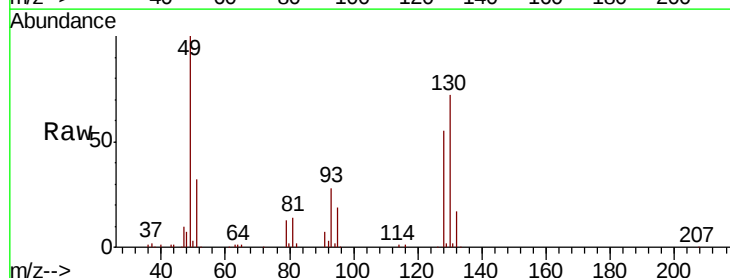
Ion Ratio Lower Upper

128 100

49 182.2 139.9 259.7

130 130.4 86.6 160.8

51 58.9 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU031013.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU031013.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU031013.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU031013.D (-981) (-)

120000

100000

80000

60000

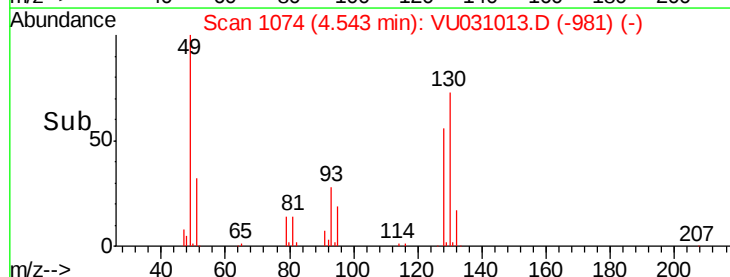
40000

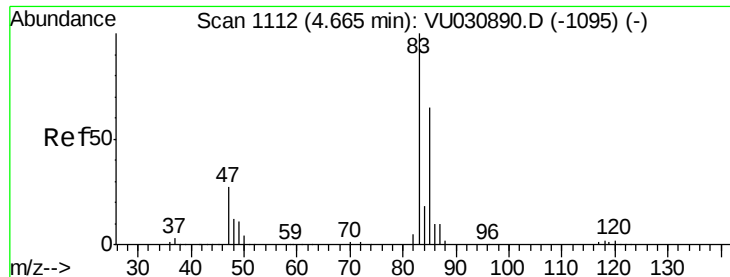
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 52.572 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

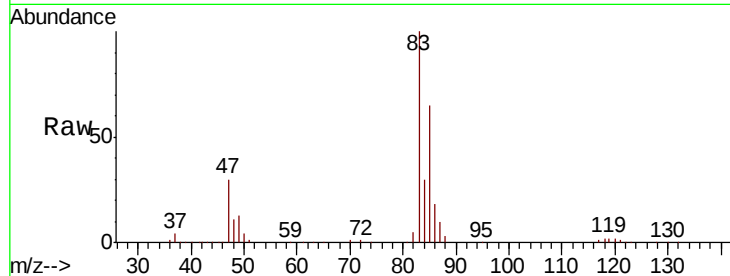
VSTD05058

Tot Ion: 83 Resp: 377196

Ion Ratio Lower Upper

83 100

85 65.2 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU031013.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU031013.D (-1095) (-)

4.67

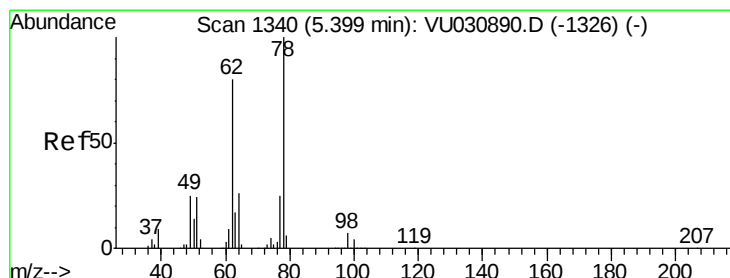
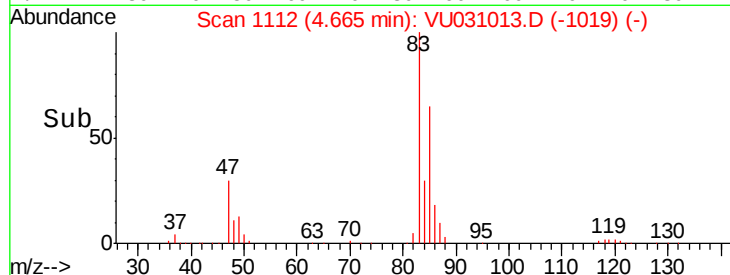
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 52.886 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU031013.D

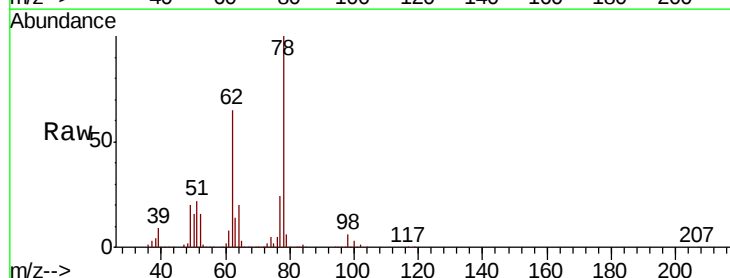
Acq: 10 Apr 2019 16:05

Tgt Ion: 62 Resp: 289607

Ion Ratio Lower Upper

62 100

98 8.6 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU031013.D (-1247) (-)

Ion 98.00 (97.70 to 98.70): VU031013.D (-1247) (-)

5.40

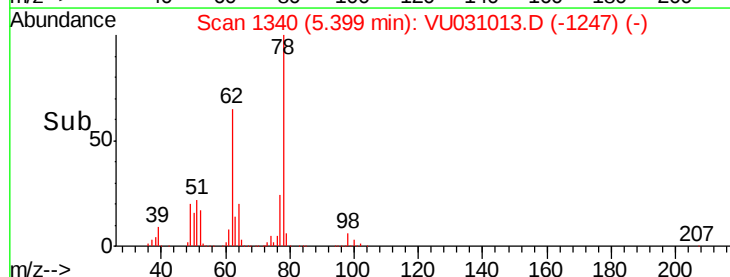
150000

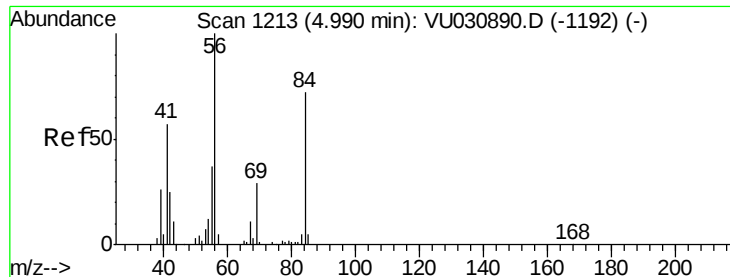
100000

50000

0

Time-->

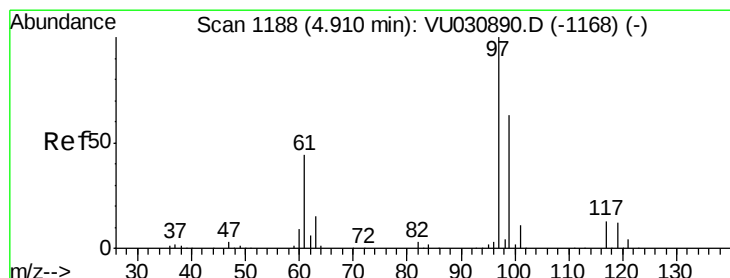
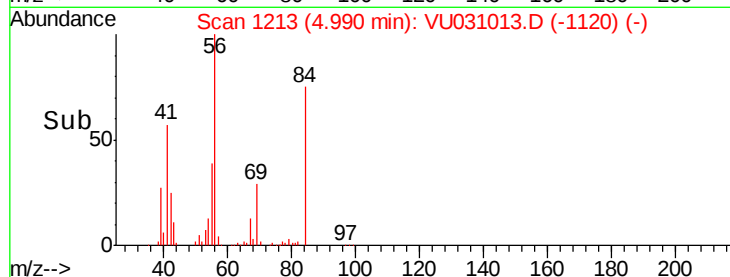
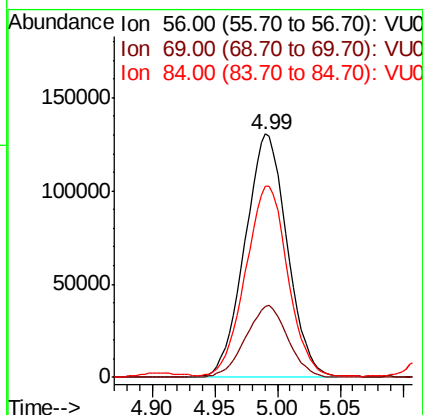
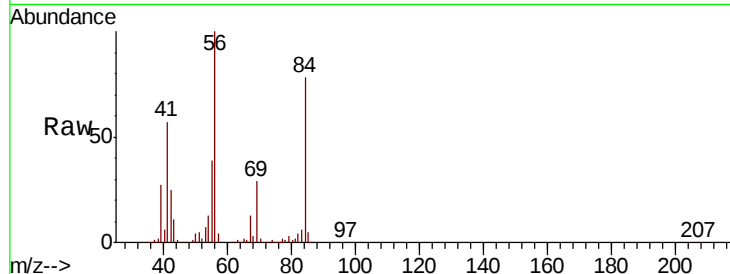




#29
Cyclohexane
Concen: 45.304 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031013.D
Acq: 10 Apr 2019 16:05

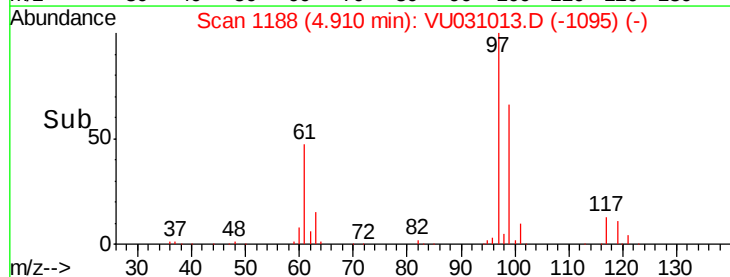
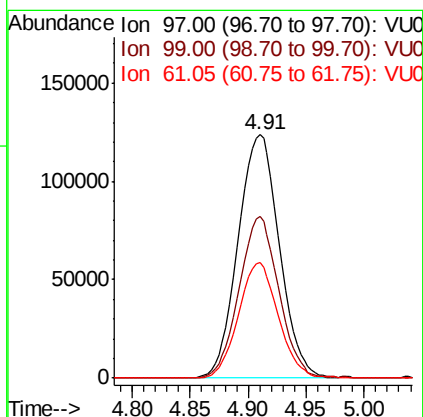
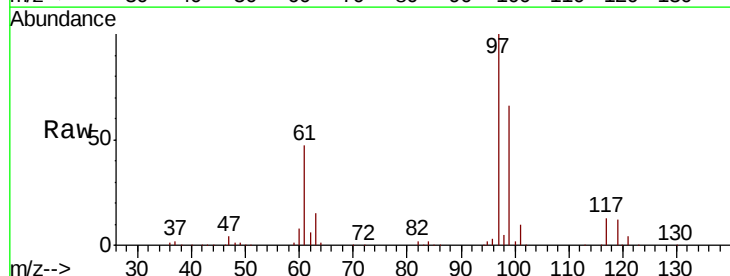
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

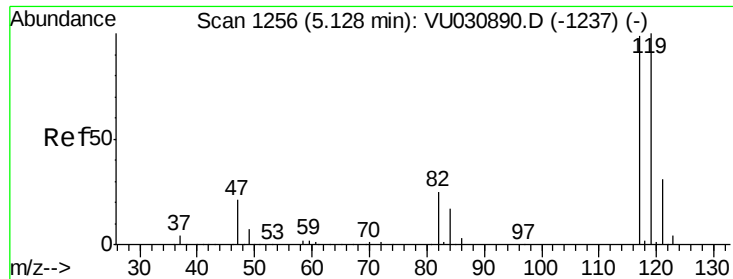
Tot Ion	56	Resp	306690
Ion Ratio	Lower	Upper	
56	100		
69	29.2	22.0	33.0
84	78.3	58.2	87.2



#30
1,1,1-Trichloroethane
Concen: 52.963 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031013.D
Acq: 10 Apr 2019 16:05

Tgt Ion	97	Resp	306575
Ion Ratio	Lower	Upper	
97	100		
99	63.8	51.4	77.2
61	45.7	37.1	55.7

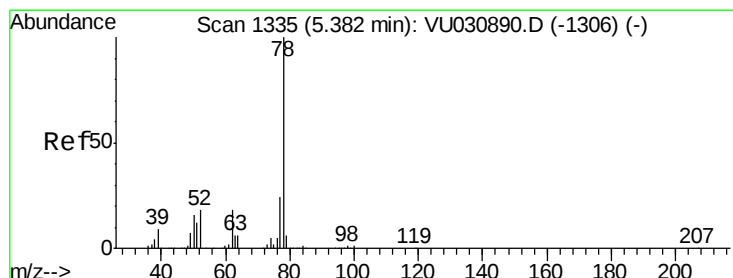
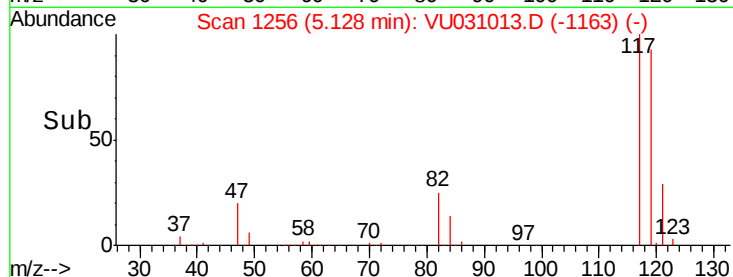
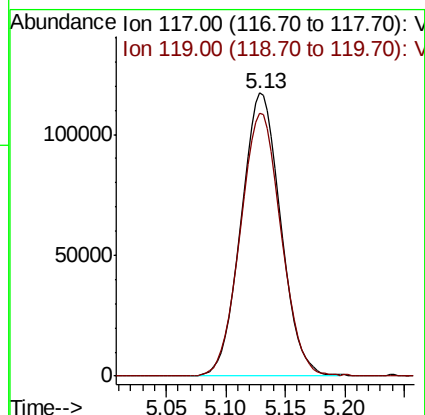
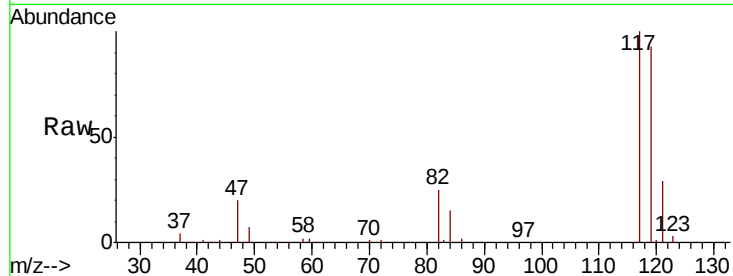




#31
Carbon tetrachloride
Concen: 54.014 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU031013.D
Acq: 10 Apr 2019 16:05

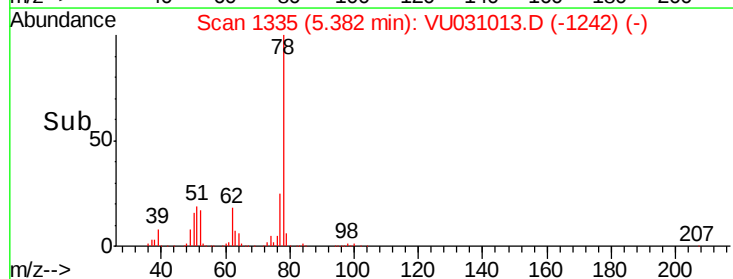
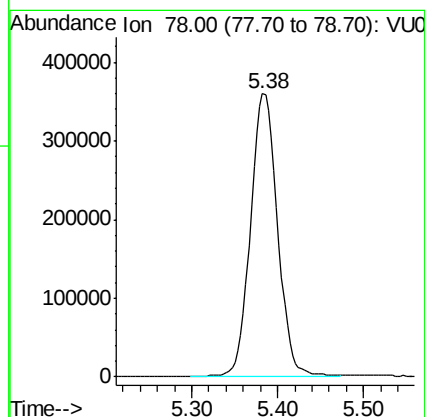
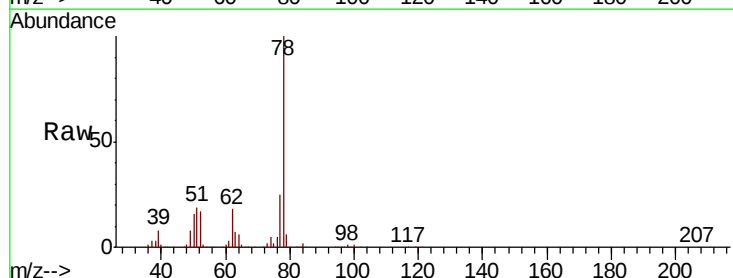
Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

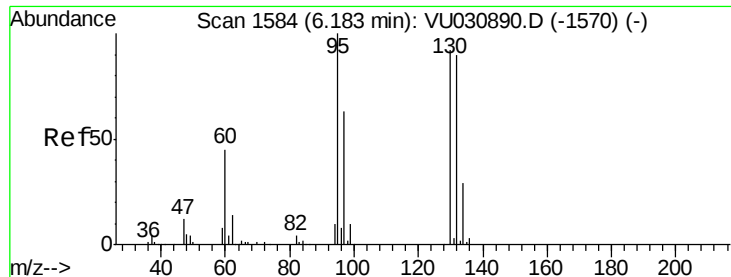
Tot Ion:117 Resp: 269429
Ion Ratio Lower Upper
117 100
119 95.7 76.2 114.2



#33
Benzene
Concen: 51.021 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU031013.D
Acq: 10 Apr 2019 16:05

Tgt Ion: 78 Resp: 793026





#34

Trichloroethene

Concen: 51.373 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

Tot Ion: 95 Resp: 195843

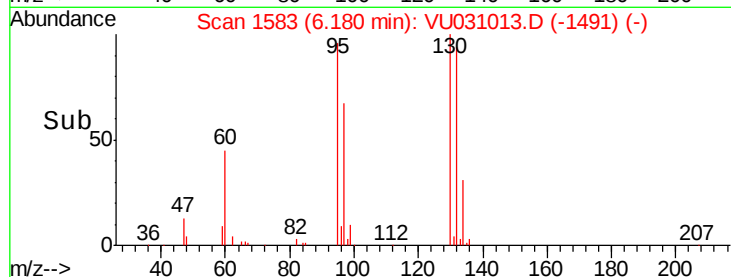
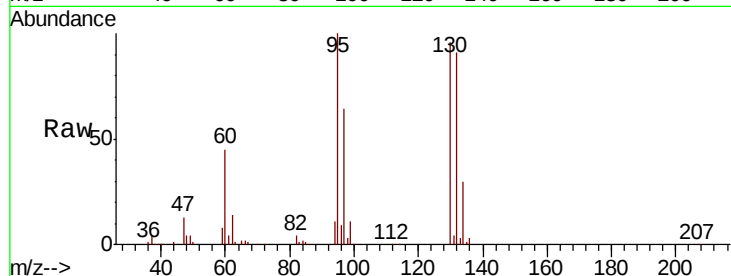
Ion Ratio Lower Upper

95 100

97 64.4 44.5 82.7

132 90.7 61.5 114.1

130 96.3 64.9 120.5

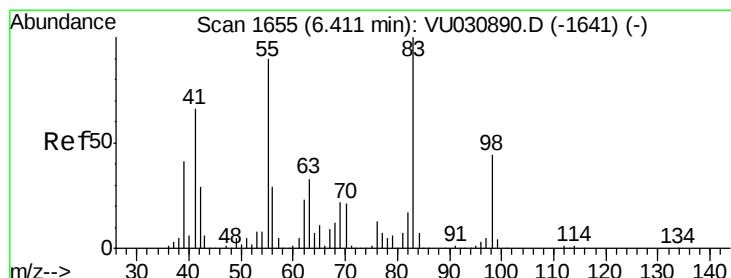
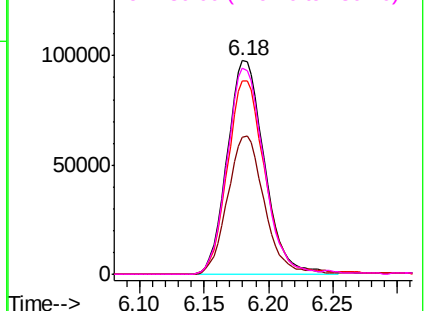


Abundance Ion 95.00 (94.70 to 95.70): VU031013.D (-1491) (-)

Ion 97.00 (96.70 to 97.70): VU031013.D (-1491) (-)

Ion 132.00 (131.70 to 132.70): VU031013.D (-1491) (-)

Ion 130.00 (129.70 to 130.70): VU031013.D (-1491) (-)



#35

Methylcyclohexane

Concen: 50.775 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

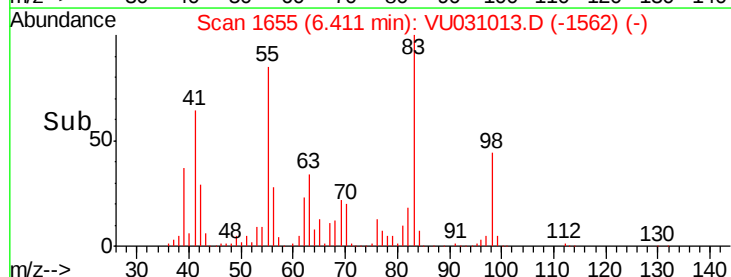
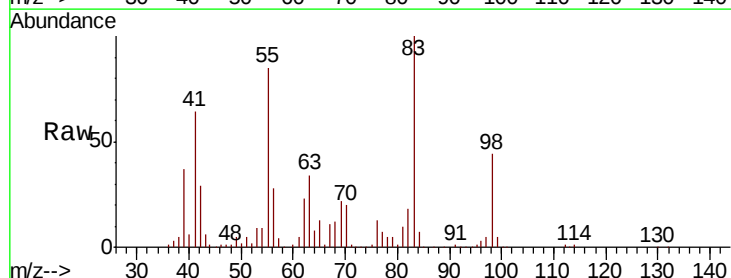
Tgt Ion: 83 Resp: 298725

Ion Ratio Lower Upper

83 100

55 86.5 71.6 107.4

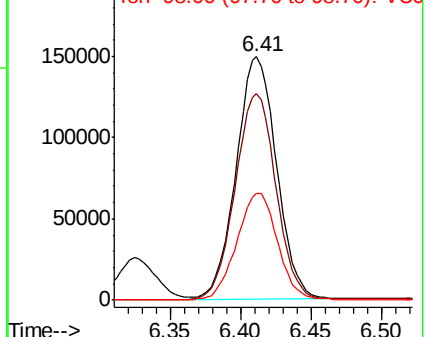
98 44.7 35.4 53.0

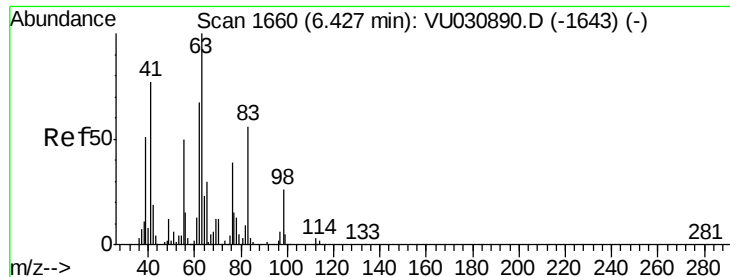


Abundance Ion 83.00 (82.70 to 83.70): VU031013.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU031013.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU031013.D (-1562) (-)

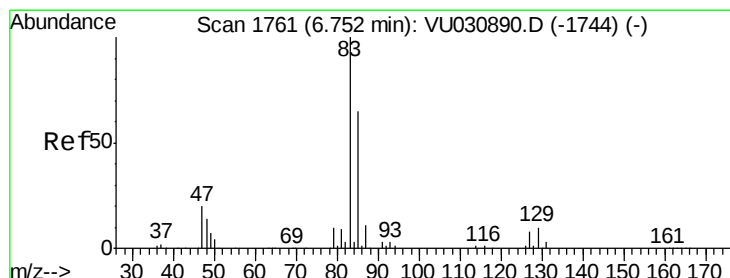
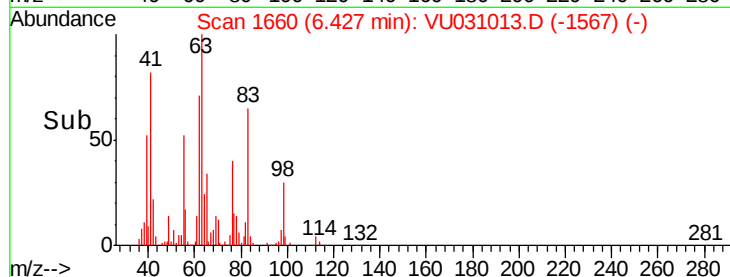
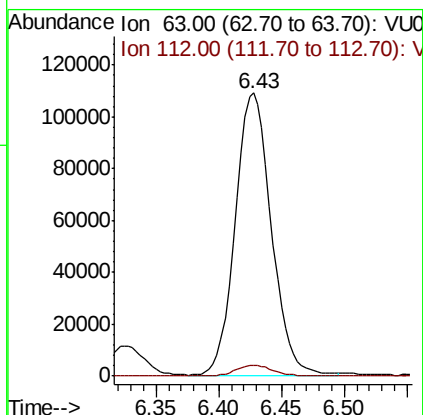
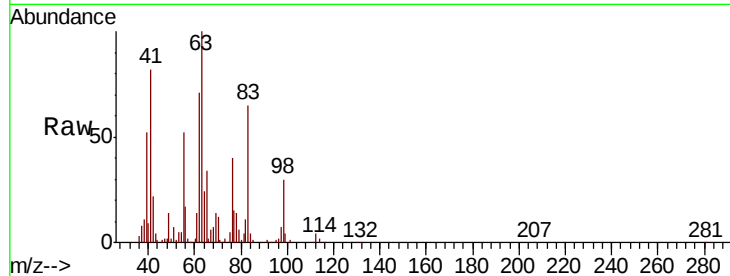




#37
 1,2-Dichloropropane
 Concen: 49.334 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

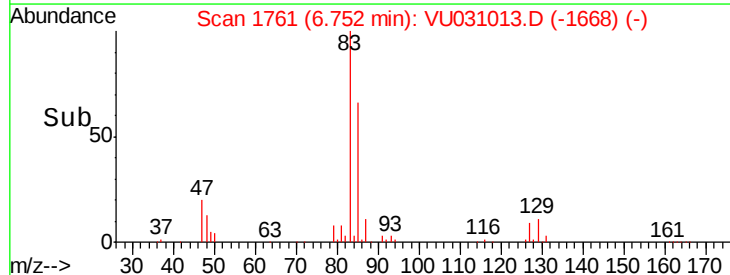
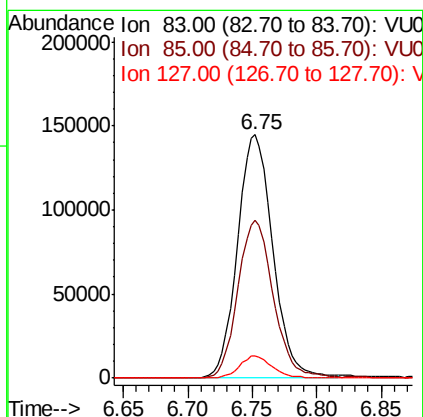
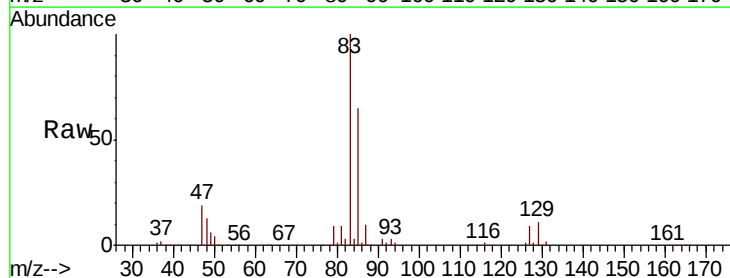
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

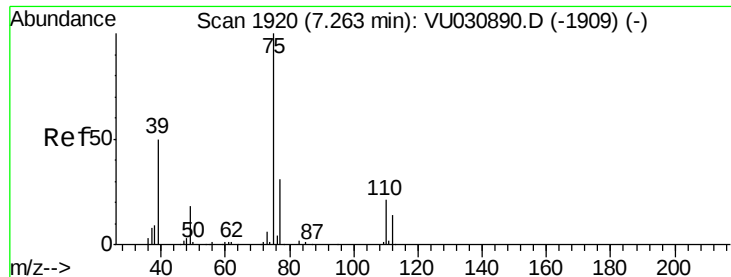
Tot Ion: 63 Resp: 217126
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.4



#38
 Bromodichloromethane
 Concen: 51.708 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

Tgt Ion: 83 Resp: 274541
 Ion Ratio Lower Upper
 83 100
 85 64.9 46.5 86.3
 127 9.2 6.6 10.0

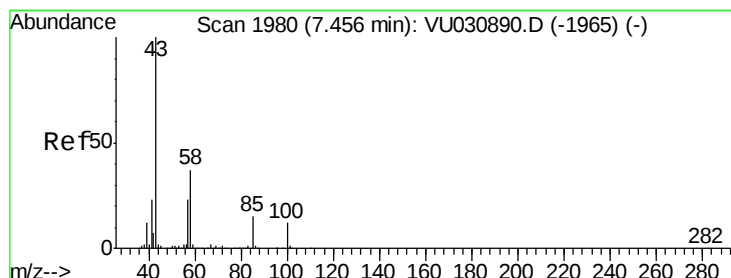
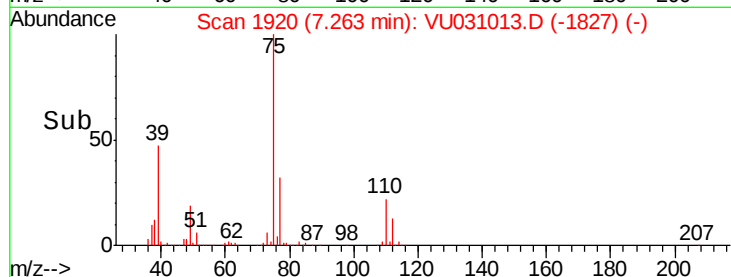
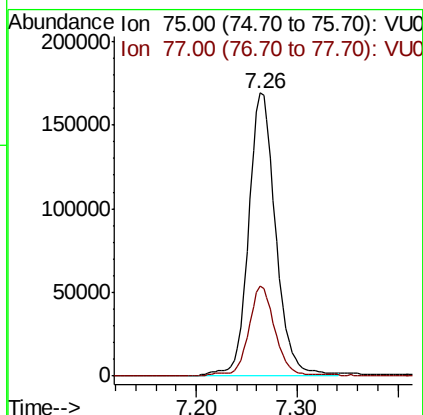
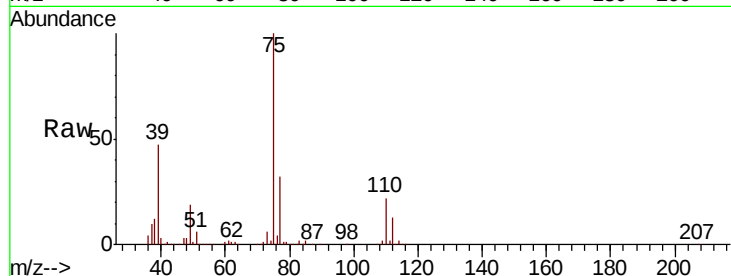




#39
 cis-1,3-Dichloropropene
 Concen: 50.014 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

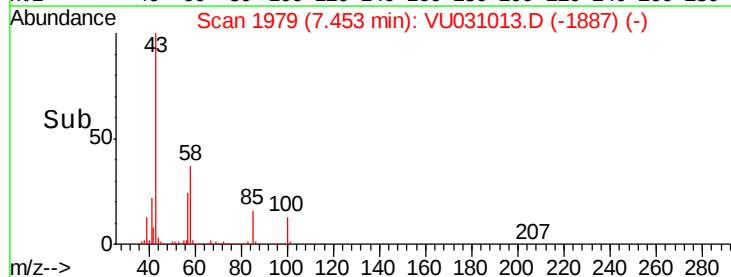
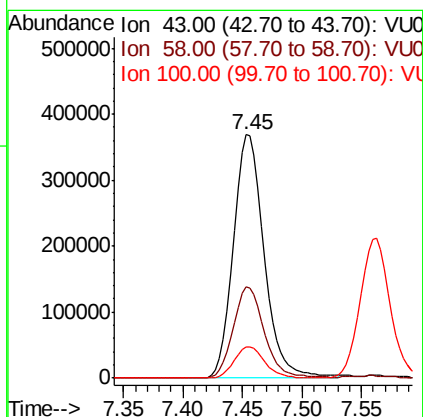
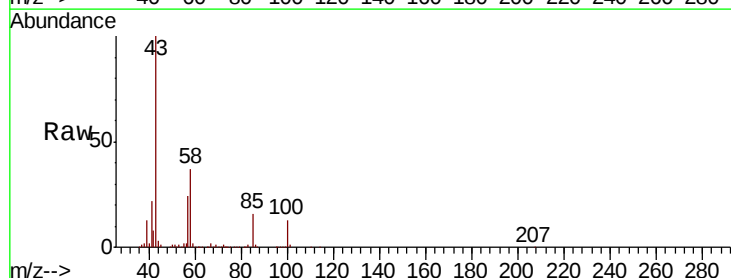
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

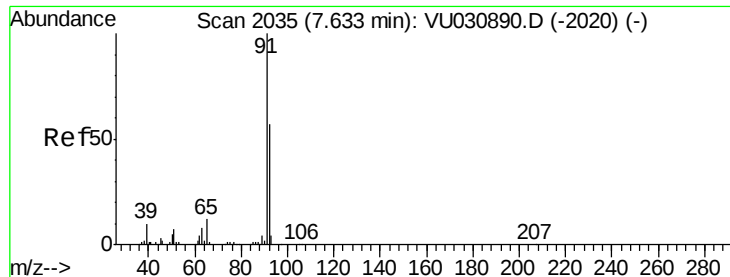
Tot Ion: 75 Resp: 313309
 Ion Ratio Lower Upper
 75 100
 77 32.0 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 93.620 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

Tgt Ion: 43 Resp: 662591
 Ion Ratio Lower Upper
 43 100
 58 37.8 29.7 44.5
 100 12.8 9.8 14.6





#42

Toluene

Concen: 52.416 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

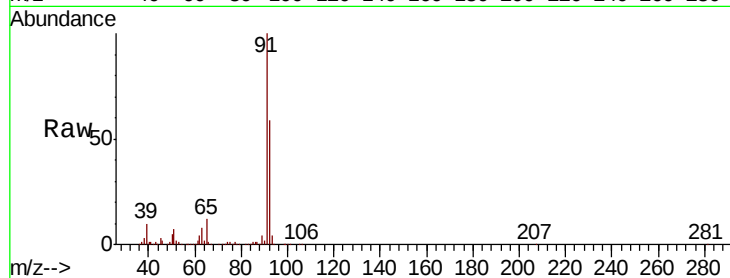
VSTD05058

Tot Ion: 91 Resp: 831624

Ion Ratio Lower Upper

91 100

92 58.7 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU031013.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU031013.D (-1942) (-)

7.63

500000

400000

300000

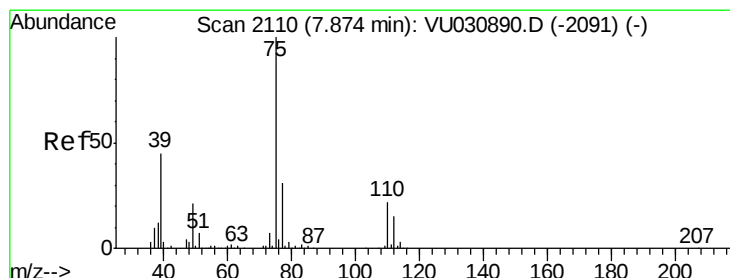
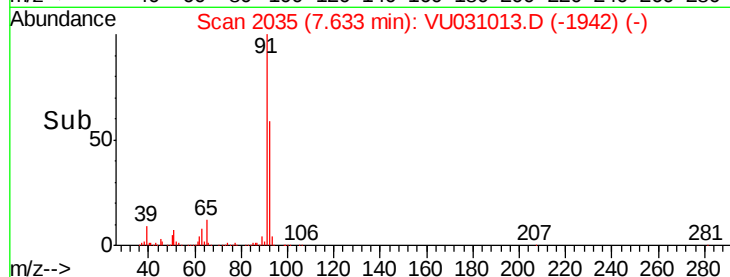
200000

100000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.472 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU031013.D

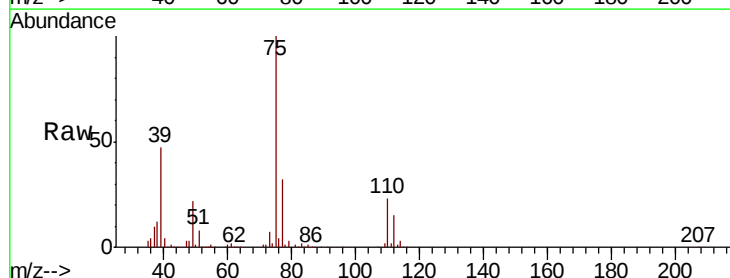
Acq: 10 Apr 2019 16:05

Tgt Ion: 75 Resp: 284156

Ion Ratio Lower Upper

75 100

77 31.8 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU031013.D (-2017) (-)

Ion 77.00 (76.70 to 77.70): VU031013.D (-2017) (-)

7.87

150000

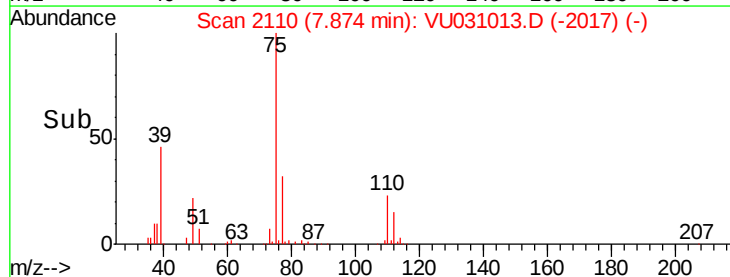
100000

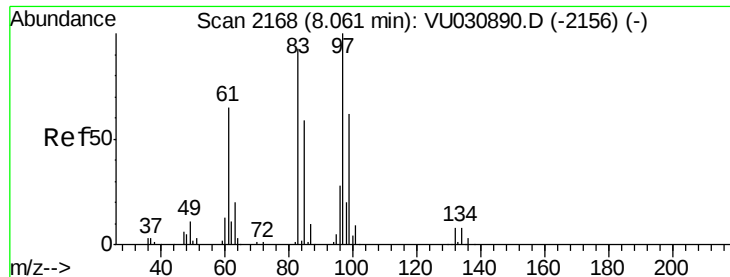
50000

0

7.80 7.85 7.90 7.95

Time-->

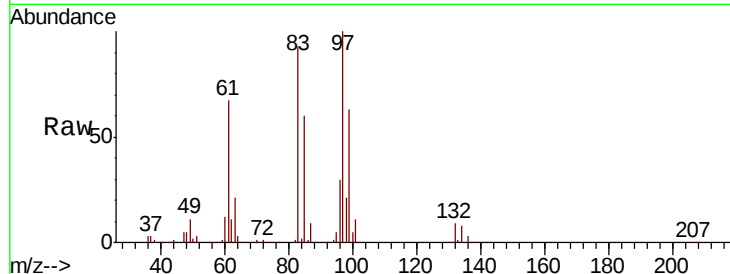




#45
 1,1,2-Trichloroethane
 Concen: 51.838 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Tot Ion:	97	Resp:	193491
Ion	Ratio	Lower	Upper
97	100		
99	63.2	44.0	81.8
83	92.6	65.3	121.3
85	59.6	42.5	78.9



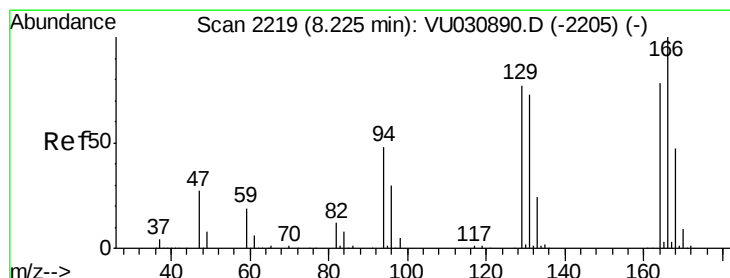
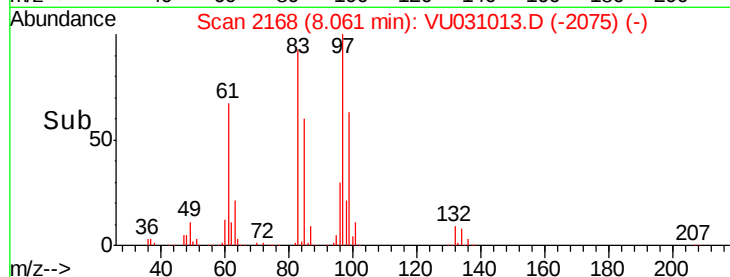
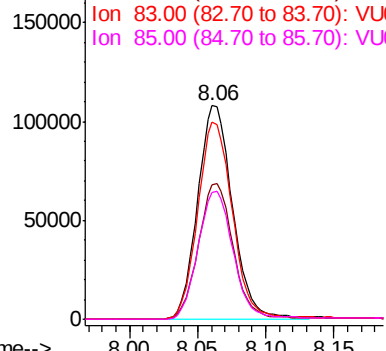
Abundance

Ion 97.00 (96.70 to 97.70): VU030890.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU030890.D (-2156) (-)

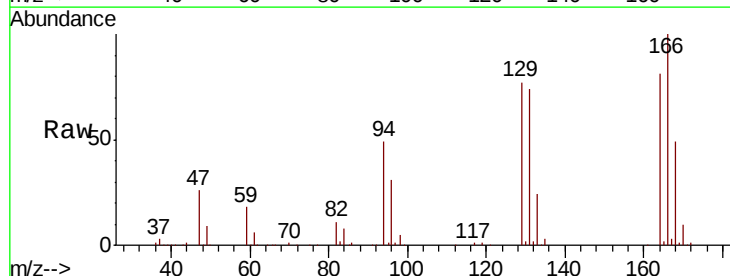
Ion 83.00 (82.70 to 83.70): VU030890.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU030890.D (-2156) (-)



#46
 Tetrachloroethene
 Concen: 53.622 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

Tgt Ion:	164	Resp:	148617
Ion	Ratio	Lower	Upper
164	100		
129	95.0	67.4	125.2
131	91.7	65.9	122.5
166	123.9	88.6	164.6



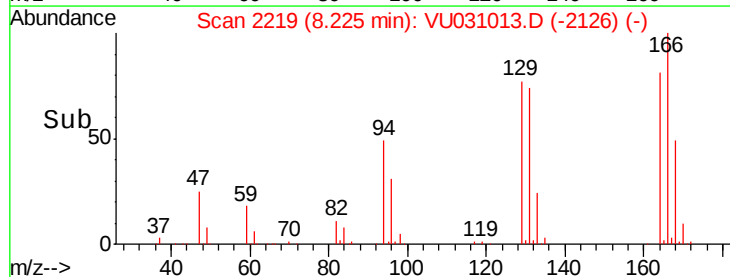
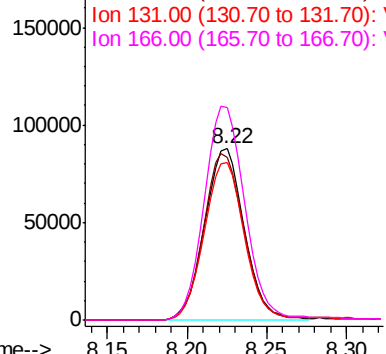
Abundance

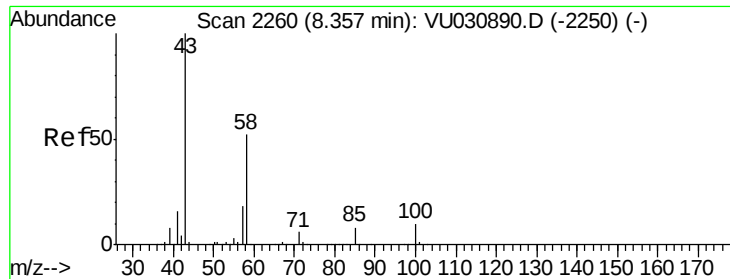
Ion 164.00 (163.70 to 164.70): VU030890.D (-2205) (-)

Ion 129.00 (128.70 to 129.70): VU030890.D (-2205) (-)

Ion 131.00 (130.70 to 131.70): VU030890.D (-2205) (-)

Ion 166.00 (165.70 to 166.70): VU030890.D (-2205) (-)

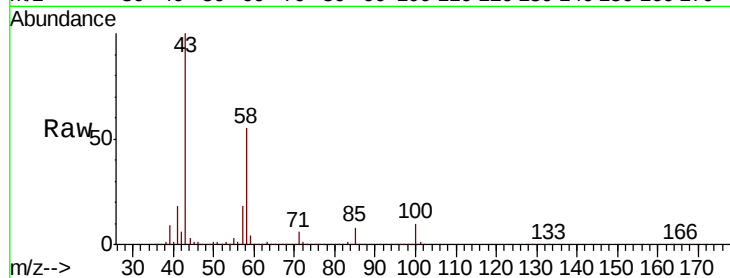




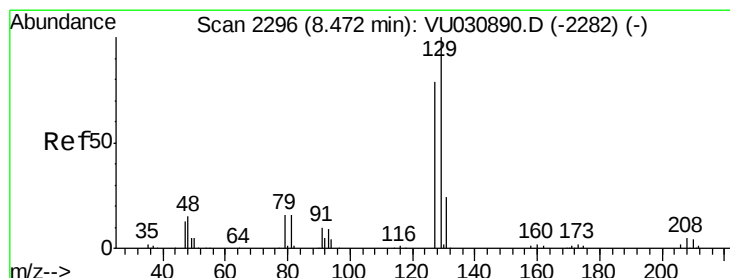
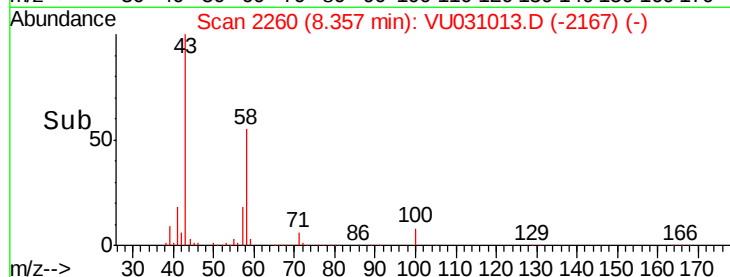
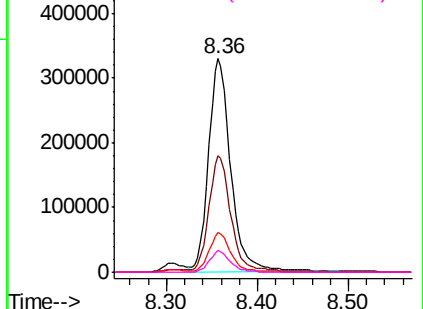
#48
2-Hexanone
Concen: 100.947 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU031013.D
Acq: 10 Apr 2019 16:05

Instrument :
MSVOA_U
ClientSampleId :
VSTD05058

Tot Ion:	43	Resp:	557404
Ion	Ratio	Lower	Upper
43	100		
58	52.5	41.9	62.9
57	17.3	14.3	21.5
100	9.6	7.1	10.7

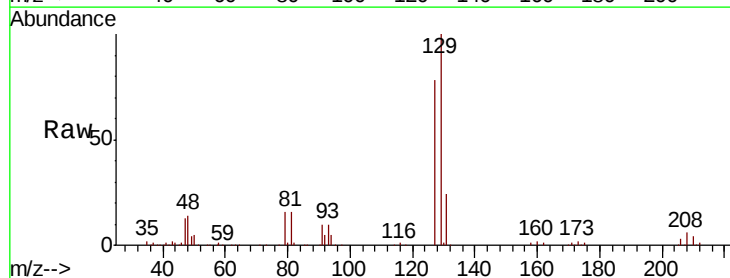


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

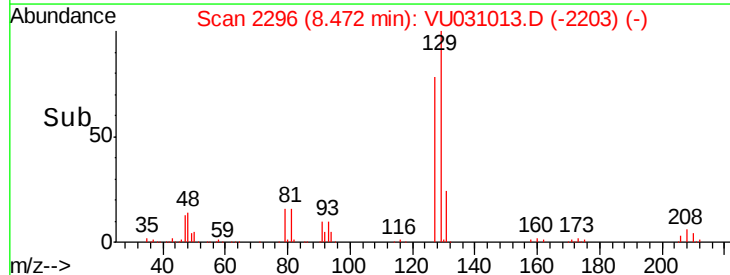
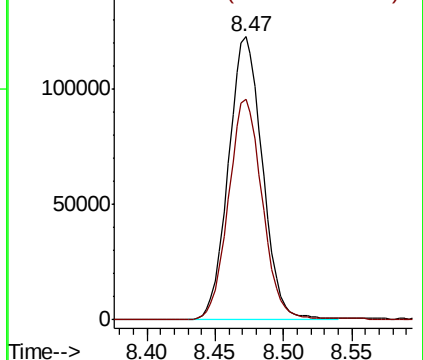


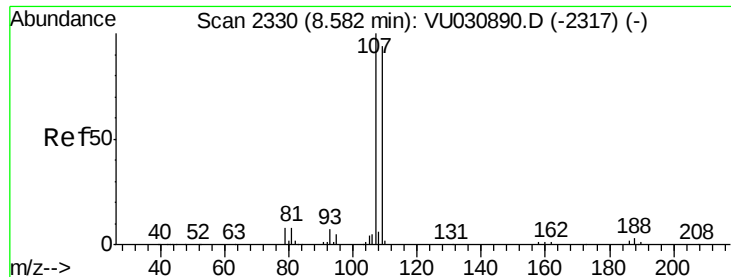
#49
Dibromochloromethane
Concen: 53.695 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031013.D
Acq: 10 Apr 2019 16:05

Tgt Ion:	129	Resp:	212670
Ion	Ratio	Lower	Upper
129	100		
127	78.0	54.5	101.3



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





#50

1,2-Dibromoethane

Concen: 50.709 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

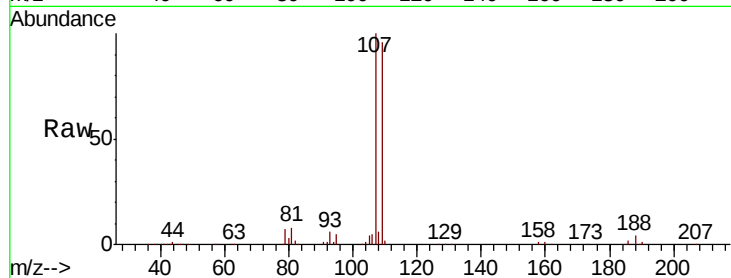
Tot Ion:107 Resp: 204816

Ion Ratio Lower Upper

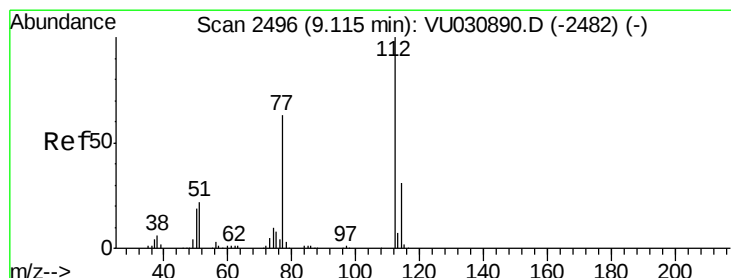
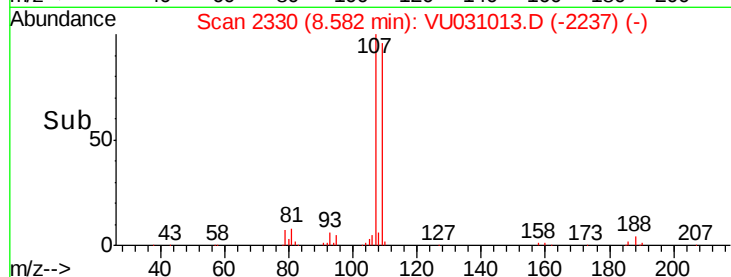
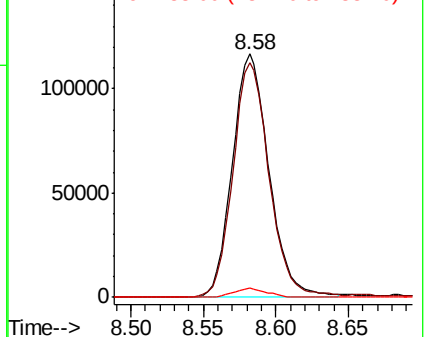
107 100

109 96.4 66.4 123.2

188 3.7 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 51.601 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

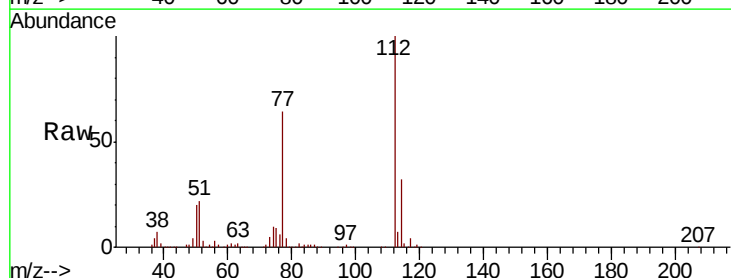
Tgt Ion:112 Resp: 502121

Ion Ratio Lower Upper

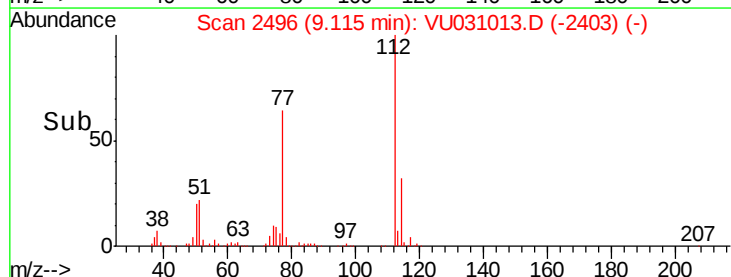
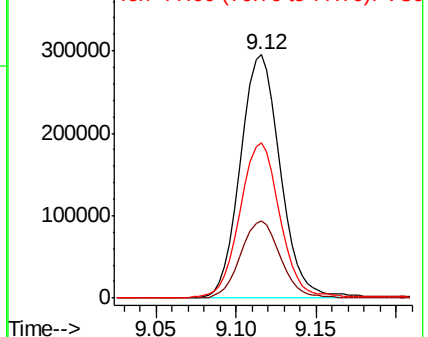
112 100

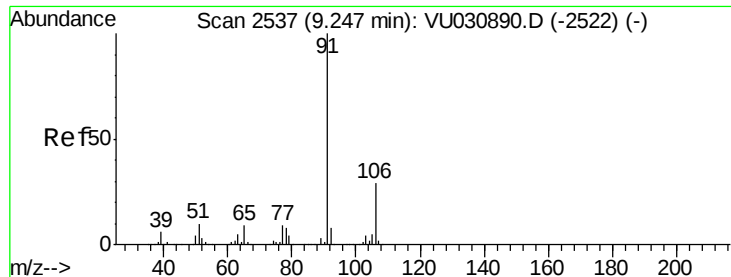
114 31.9 22.2 41.2

77 64.0 51.7 77.5



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 51.361 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

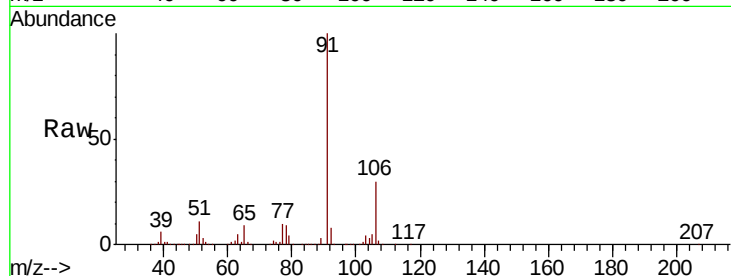
VSTD05058

Tot Ion: 91 Resp: 888254

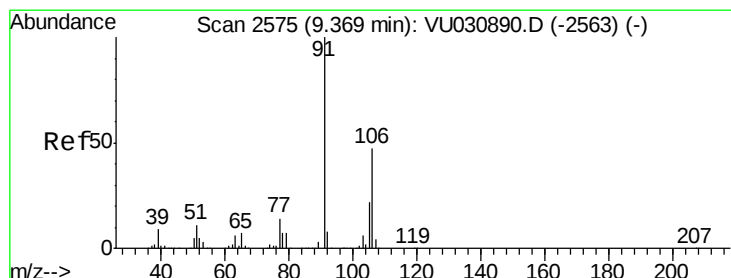
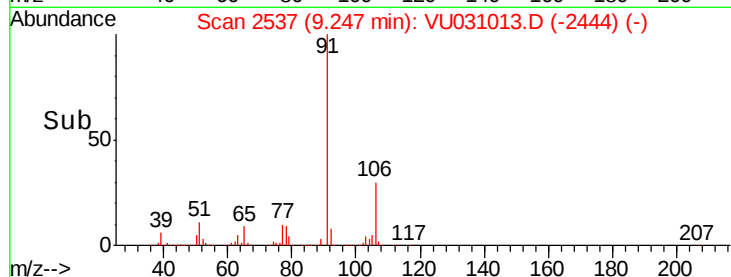
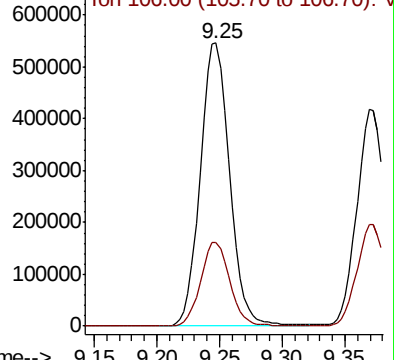
Ion Ratio Lower Upper

91 100

106 29.8 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU031013.D (-2444) (-)



#53

m,p-Xylene

Concen: 53.799 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU031013.D

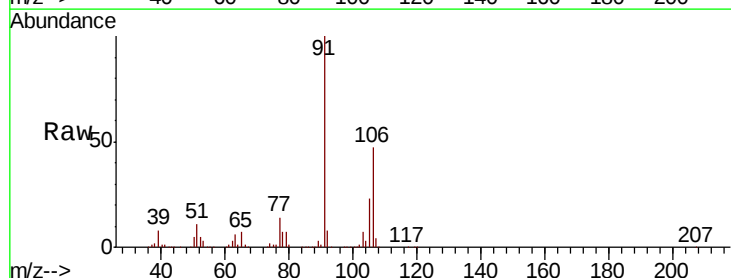
Acq: 10 Apr 2019 16:05

Tgt Ion: 106 Resp: 324493

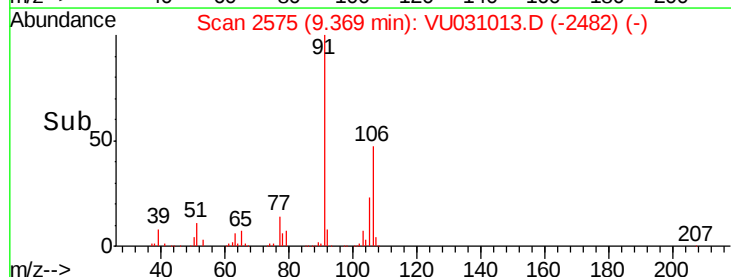
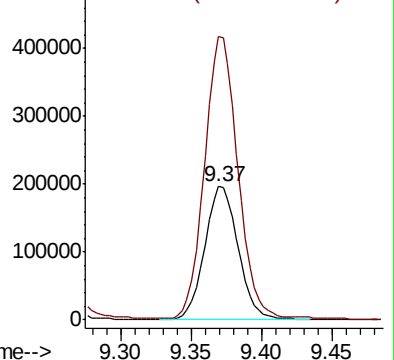
Ion Ratio Lower Upper

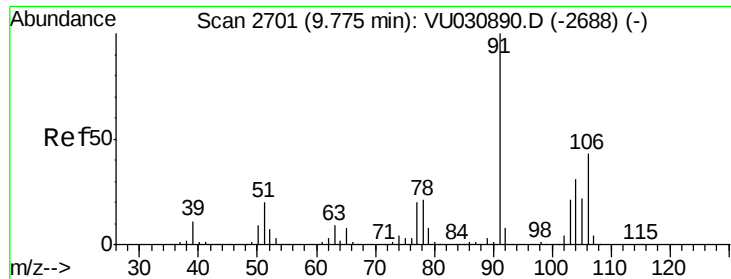
106 100

91 212.2 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): VU031013.D (-2482) (-)





#54

o-xylene

Concen: 51.319 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

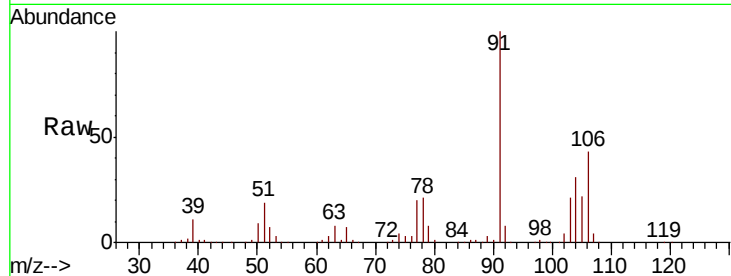
VSTD05058

Tot Ion:106 Resp: 307892

Ion Ratio Lower Upper

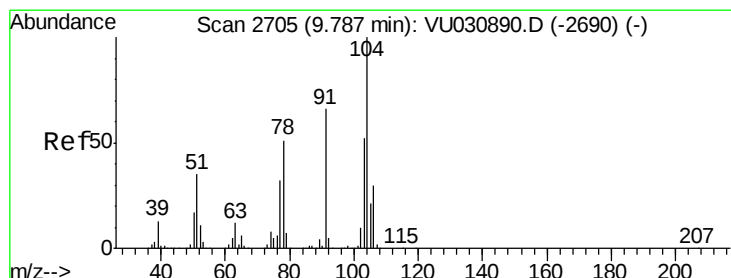
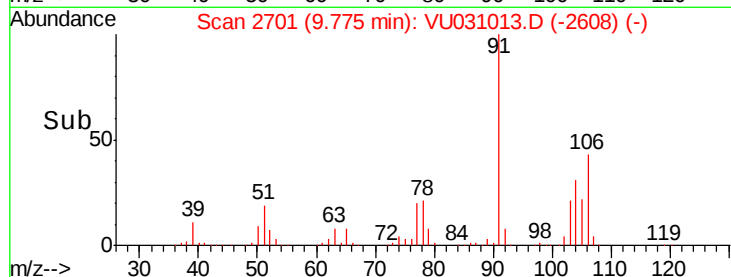
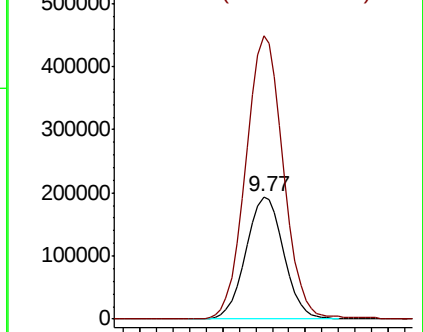
106 100

91 231.0 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.529 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031013.D

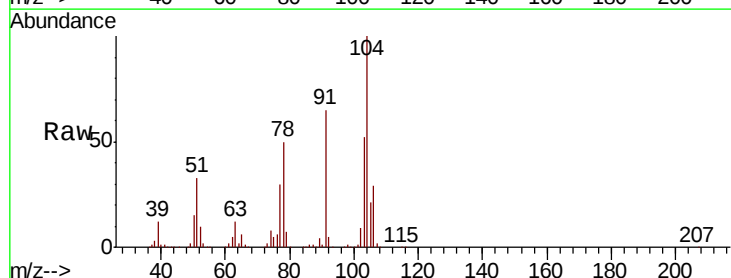
Acq: 10 Apr 2019 16:05

Tgt Ion:104 Resp: 571438

Ion Ratio Lower Upper

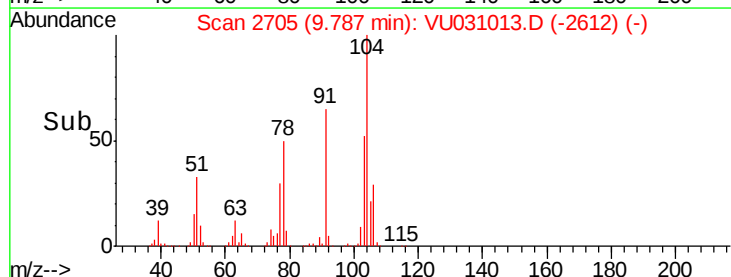
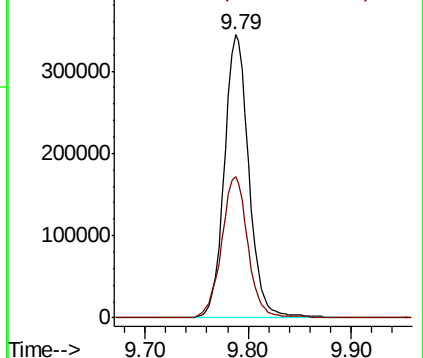
104 100

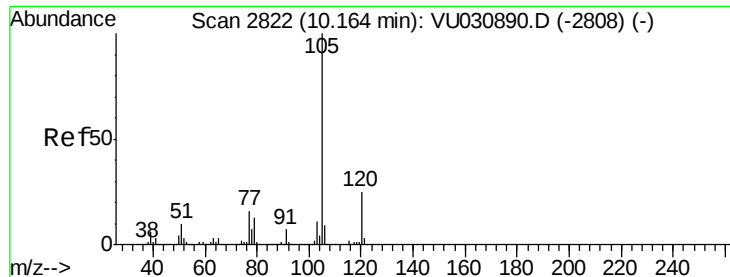
78 49.9 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.770 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

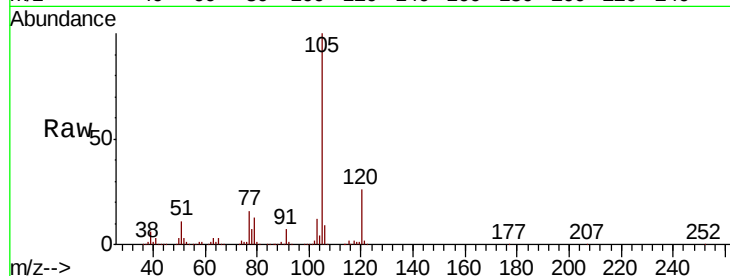
Tot Ion:105 Resp: 833555

Ion Ratio Lower Upper

105 100

120 26.1 20.4 30.6

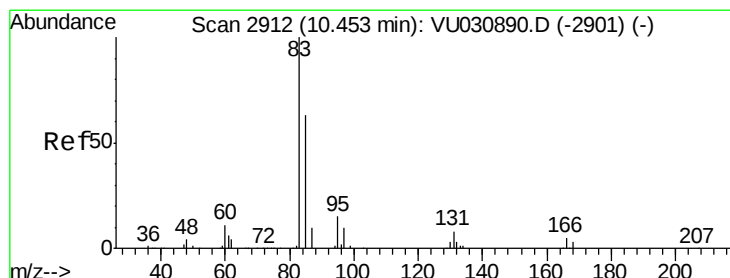
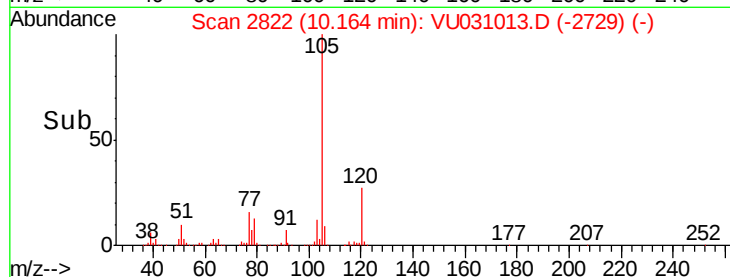
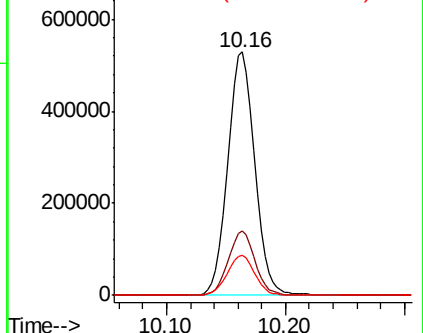
77 16.8 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.760 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

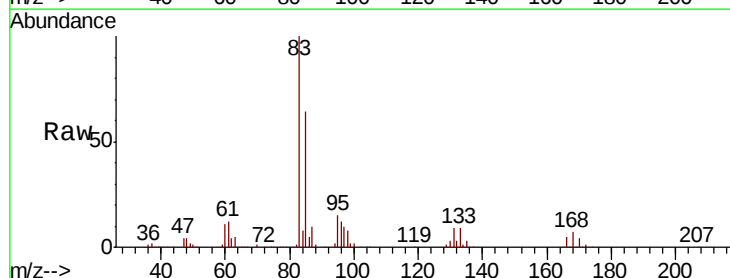
Tgt Ion: 83 Resp: 342710

Ion Ratio Lower Upper

83 100

85 64.0 45.3 84.1

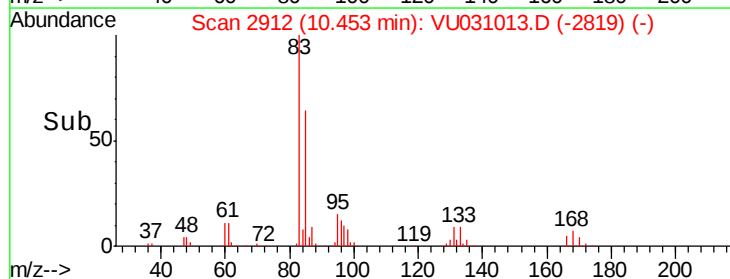
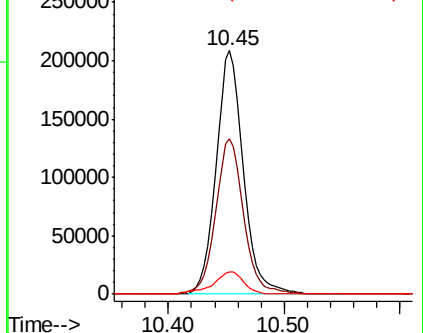
131 9.0 6.7 10.1

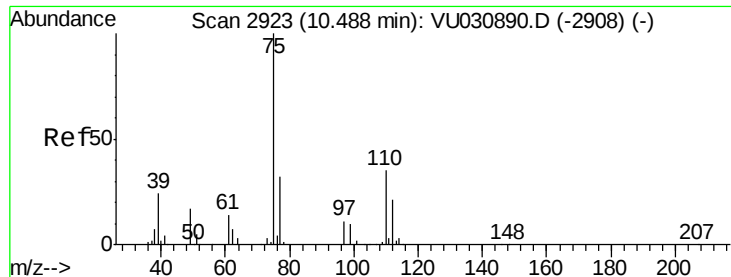


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

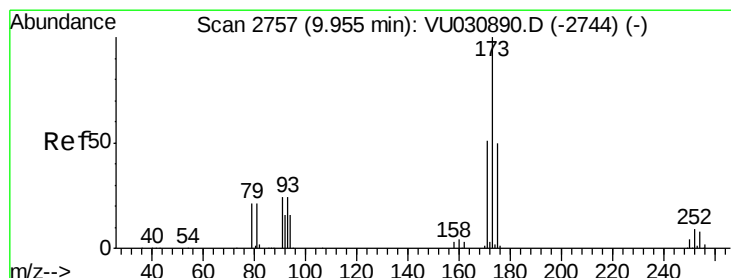
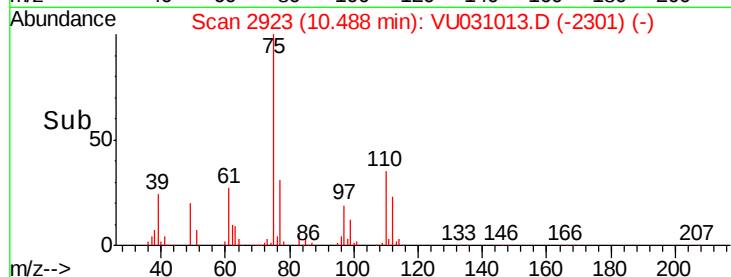
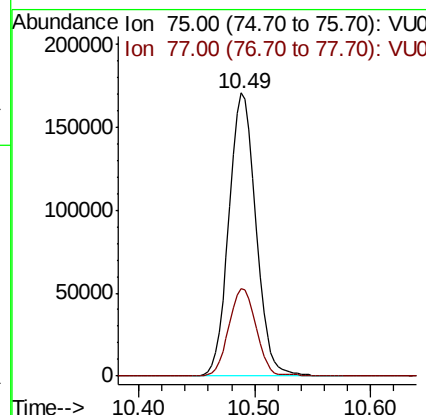
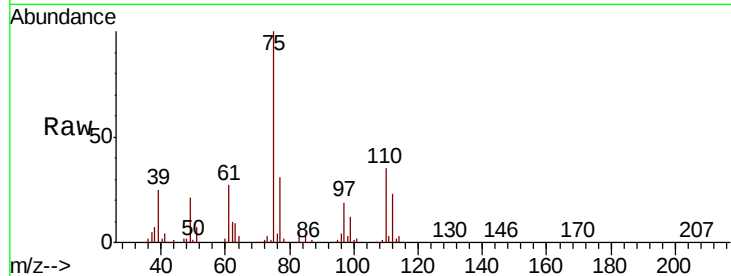




#59
 1,2,3-Trichloropropane
 Concen: 52.161 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

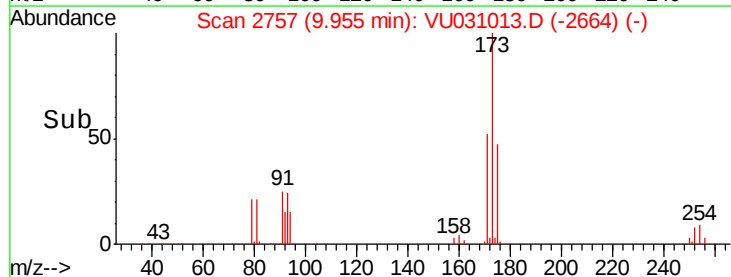
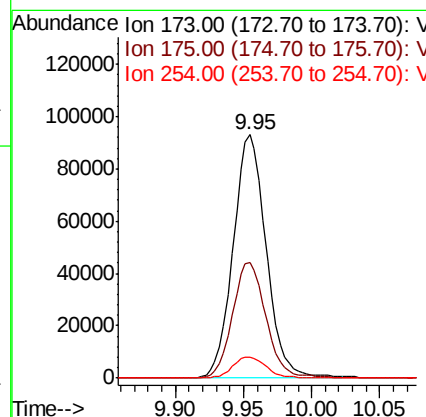
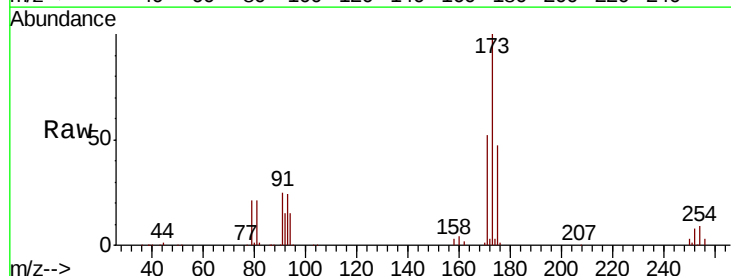
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

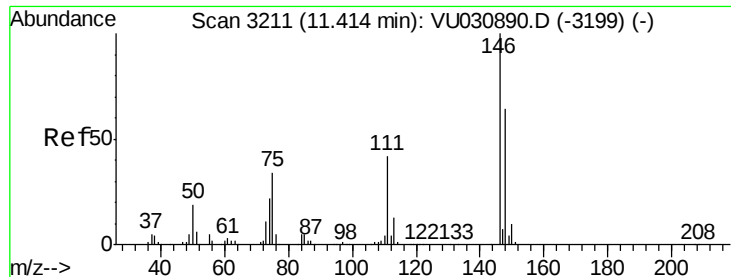
Tot Ion: 75 Resp: 274949
 Ion Ratio Lower Upper
 75 100
 77 30.8 26.1 39.1



#61
 Bromoform
 Concen: 52.818 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

Tgt Ion: 173 Resp: 156924
 Ion Ratio Lower Upper
 173 100
 175 48.3 39.1 58.7
 254 8.7 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 50.950 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

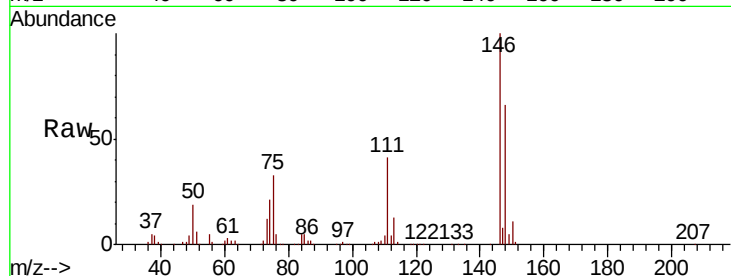
Tot Ion:146 Resp: 362155

Ion Ratio Lower Upper

146 100

111 41.5 30.9 57.5

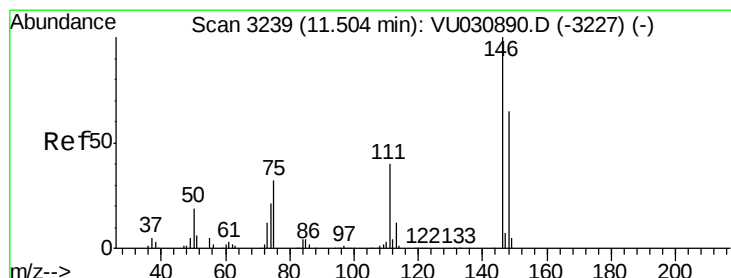
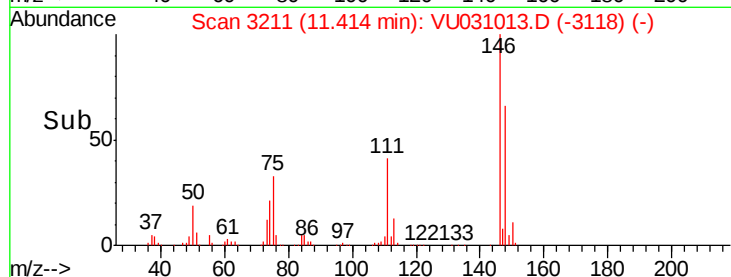
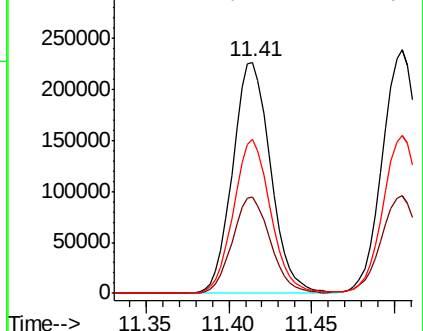
148 66.4 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 52.157 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

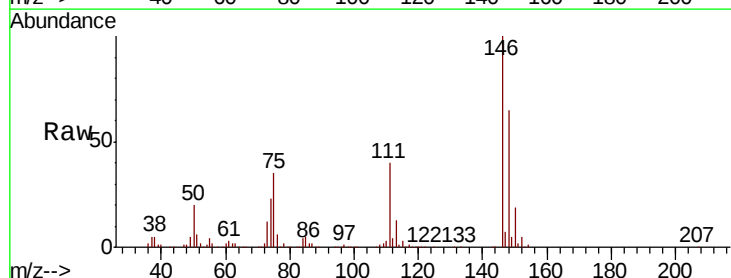
Tgt Ion:146 Resp: 377103

Ion Ratio Lower Upper

146 100

111 40.1 27.7 51.5

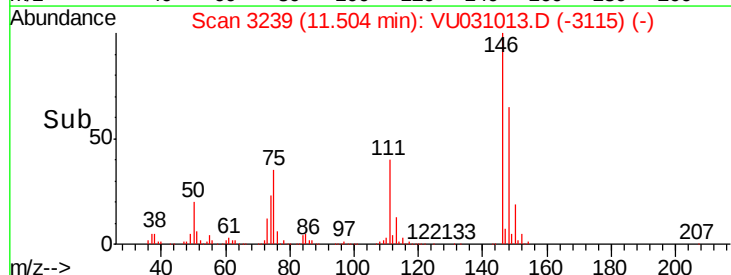
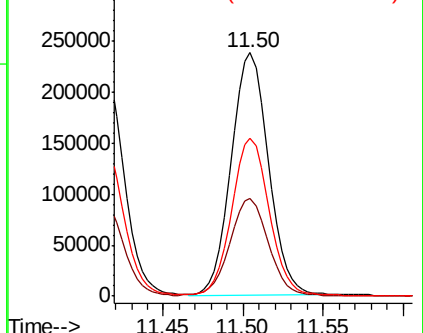
148 65.1 45.4 84.4

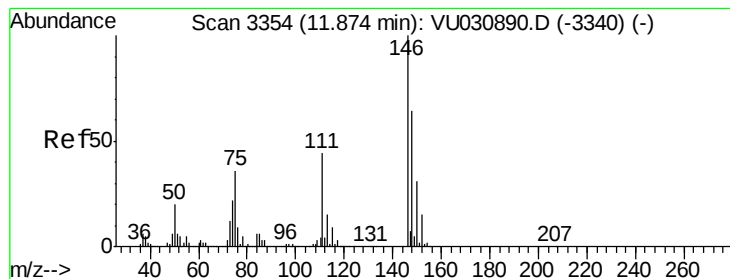


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 53.219 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

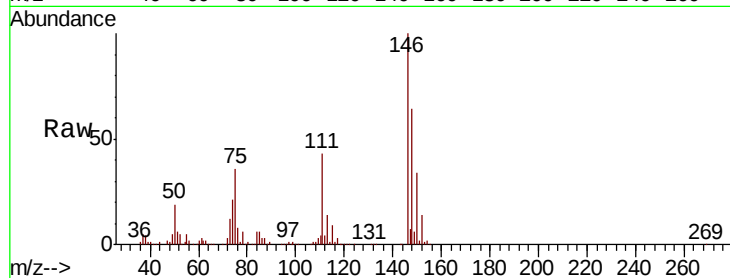
Tot Ion:146 Resp: 379445

Ion Ratio Lower Upper

146 100

111 43.1 34.9 52.3

148 63.9 50.4 75.6

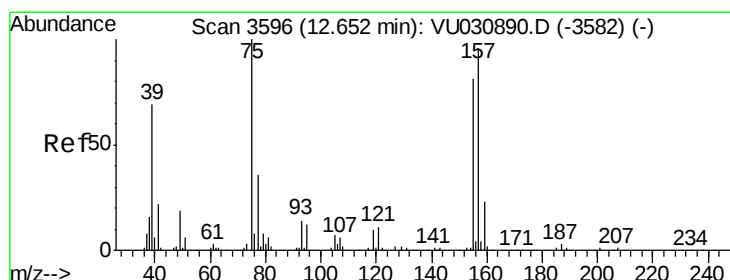
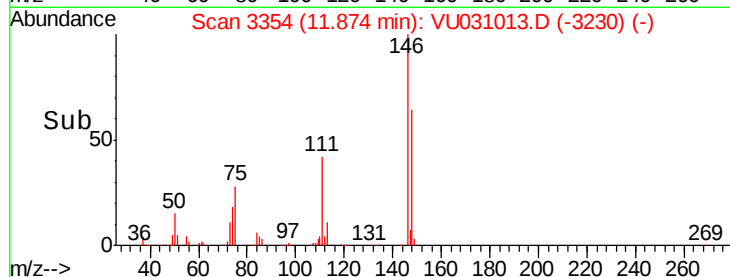
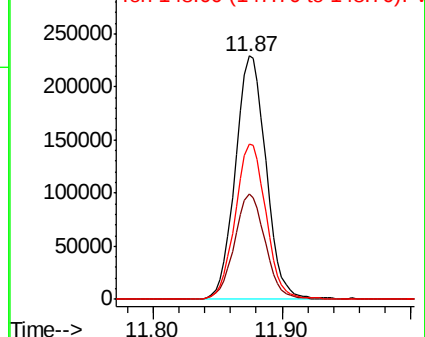


Abundance

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: 48.323 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

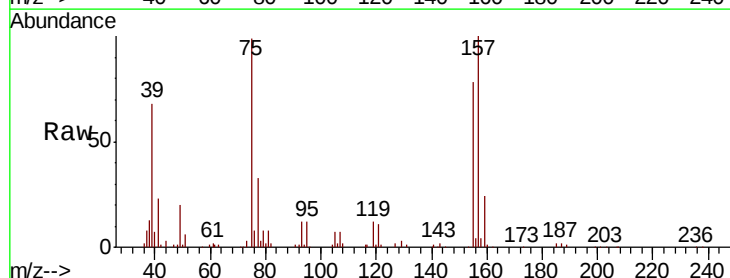
Tgt Ion: 75 Resp: 73244

Ion Ratio Lower Upper

75 100

155 78.4 64.1 96.1

157 101.1 80.6 120.8

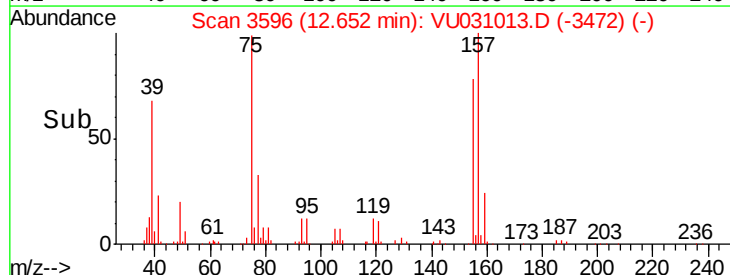
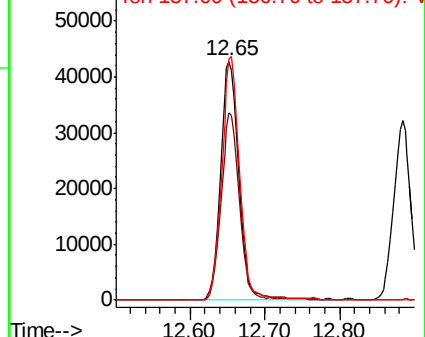


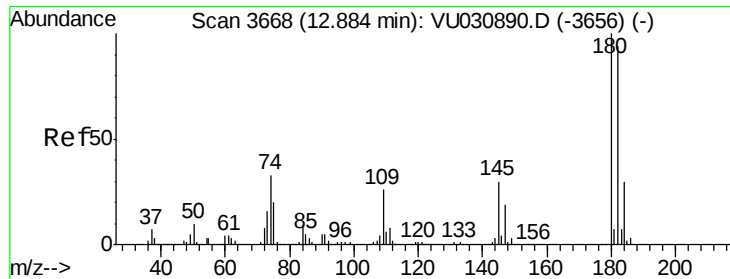
Abundance

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

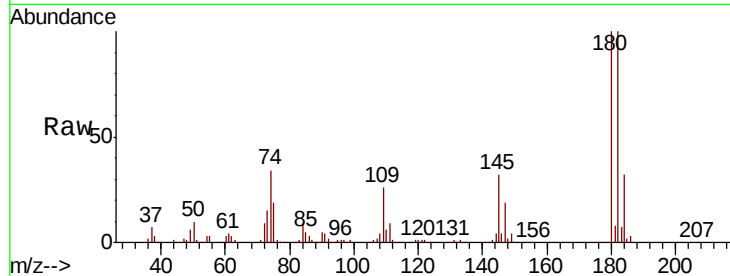




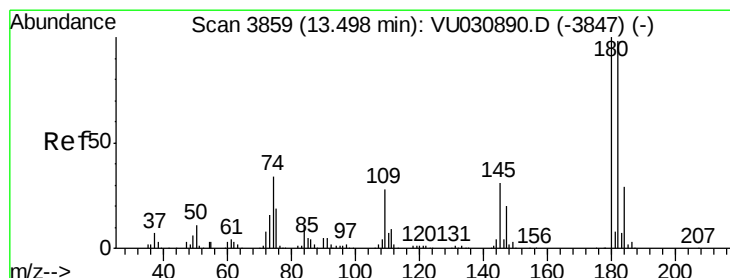
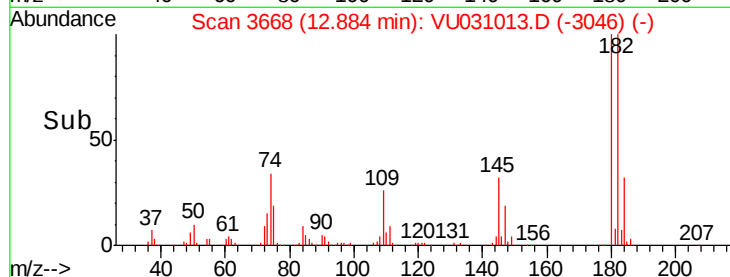
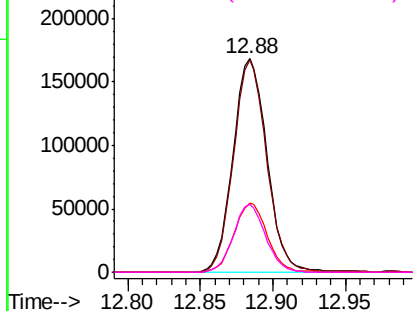
#67
 1,3,5-Trichlorobenzene
 Concen: 52.699 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05058

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	78.3	117.5
184	31.6	24.7	37.1
145	30.1	24.2	36.4

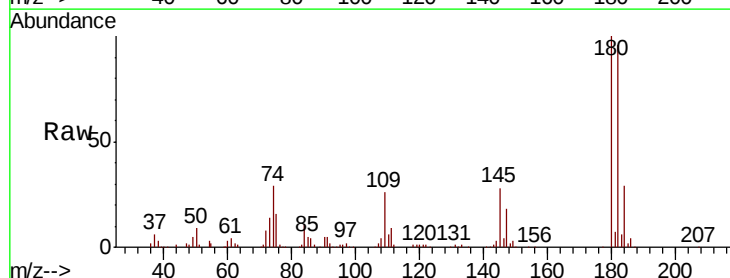


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

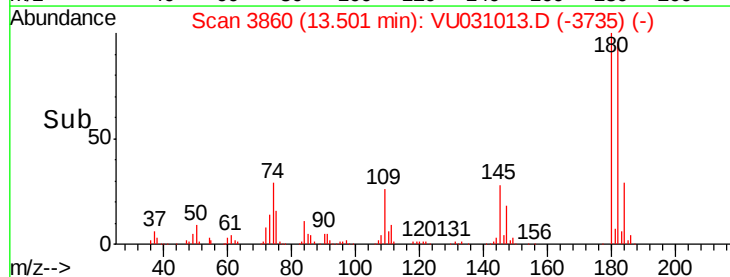
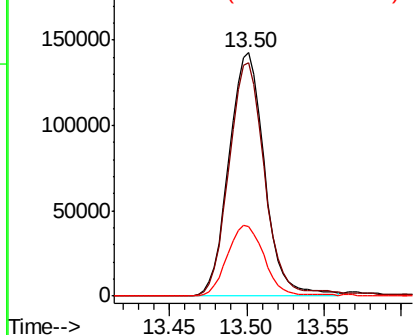


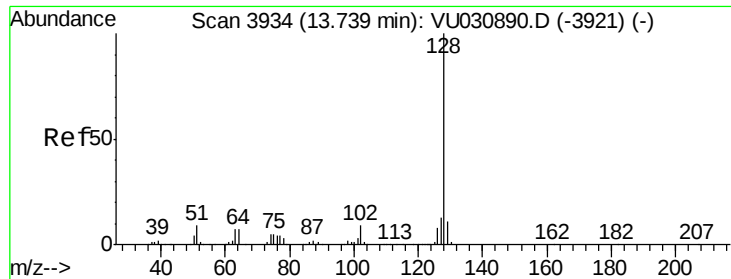
#68
 1,2,4-trichlorobenzene
 Concen: 51.650 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU031013.D
 Acq: 10 Apr 2019 16:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.7	115.1
145	29.6	24.4	36.6



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





#69

Naphthalene

Concen: 48.743 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05058

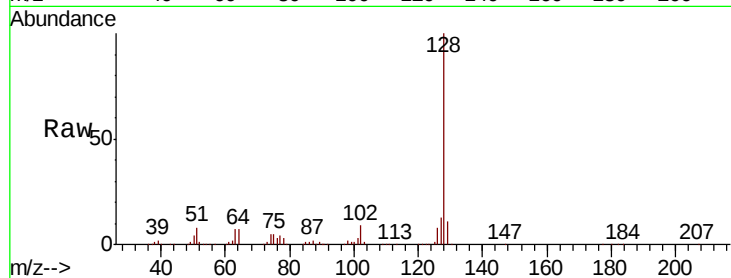
Tot Ion:128 Resp: 697896

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

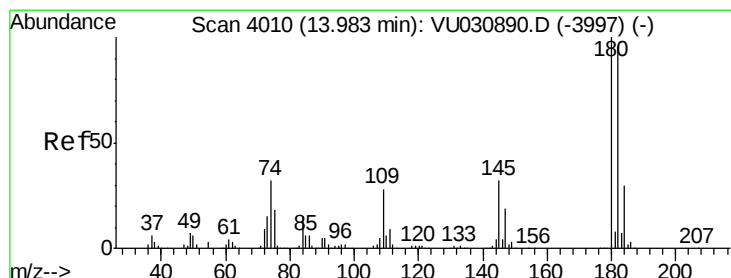
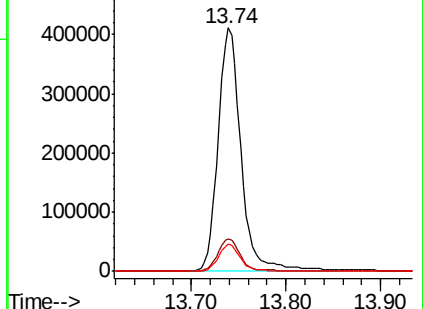
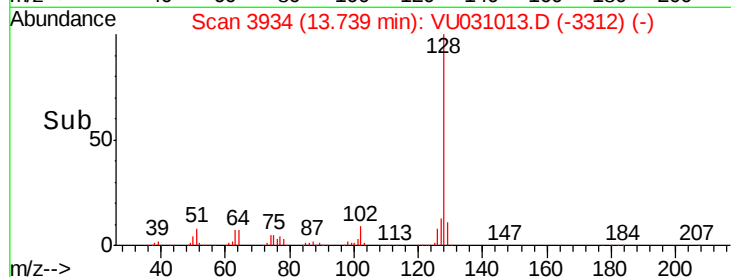
129 10.5 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 52.856 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031013.D

Acq: 10 Apr 2019 16:05

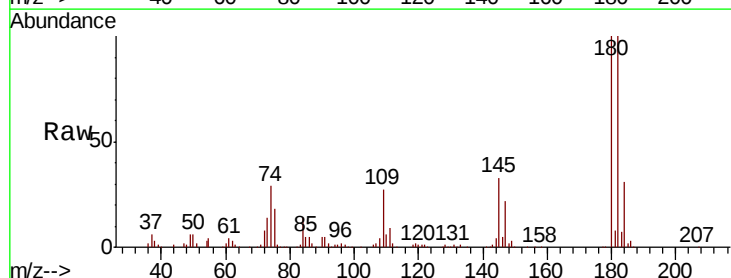
Tgt Ion:180 Resp: 243908

Ion Ratio Lower Upper

180 100

182 97.2 78.1 117.1

145 32.5 26.6 40.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

