

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041319\
 Data File : VU031173.D
 Acq On : 13 Apr 2019 21:40
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Quant Time: Apr 13 22:33:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 13 22:25:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	454152	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	417928	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	212198	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	173289	42.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.48%
7) Chloroethane-d5	1.67	69	143633	46.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.36%
11) 1,1-Dichloroethene-d2	2.27	63	330327	45.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.10%
21) 2-Butanone-d5	4.17	46	336349	104.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.68%
24) Chloroform-d	4.64	84	332189	53.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.28%
26) 1,2-Dichloroethane-d4	5.30	65	213843	50.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.20%
32) Benzene-d6	5.33	84	645489	52.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.82%
36) 1,2-Dichloropropane-d6	6.32	67	215504	51.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.08%
41) Toluene-d8	7.56	98	576146	53.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.56%
43) trans-1,3-Dichloropropene-	7.85	79	97392	51.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.16%
47) 2-Hexanone-d5	8.31	63	201201	105.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.29%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	301170	53.40	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.80%
64) 1,2-Dichlorobenzene-d4	11.85	152	223354	53.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.04%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	175407	43.970	ug/L 99
3) Chloromethane	1.32	50	213939	41.461	ug/L 97
5) Vinyl chloride	1.40	62	217251	43.494	ug/L 93
6) Bromomethane	1.62	94	117320	45.335	ug/L 96
8) Chloroethane	1.69	64	129897	45.596	ug/L 98
9) Trichlorofluoromethane	1.88	101	288791	49.620	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	150696	46.340	ug/L 97
12) 1,1-Dichloroethene	2.28	96	147533	46.995	ug/L 94
13) Acetone	2.32	43	238112	72.421	ug/L 100
14) Carbon disulfide	2.47	76	397404	40.749	ug/L 98
15) Methyl Acetate	2.61	43	242139	47.498	ug/L 99
16) Methylene chloride	2.69	84	182486	47.851	ug/L 93
17) trans-1,2-Dichloroethene	2.98	96	159220	47.767	ug/L 94
18) Methyl tert-butyl Ether	2.99	73	554776	49.686	ug/L 100
19) 1,1-Dichloroethane	3.44	63	340578	49.511	ug/L 96
20) cis-1,2-Dichloroethene	4.22	96	192307	52.250	ug/L 90
22) 2-Butanone	4.26	43	366371	95.039	ug/L 92

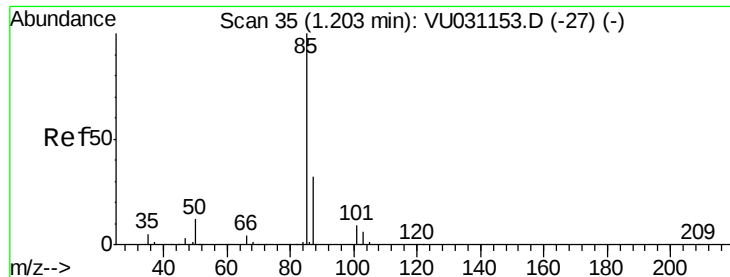
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041319\
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 Quant Title : VOC Analysis
 QLast Update : Sat Apr 13 22:25:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	97545	56.060	ug/L	84
25) Chloroform	4.67	83	356075	51.502	ug/L	98
27) 1,2-Dichloroethane	5.40	62	268381	50.861	ug/L	100
29) Cyclohexane	4.99	56	276327	46.390	ug/L	95
30) 1,1,1-Trichloroethane	4.91	97	282131	55.393	ug/L	98
31) Carbon tetrachloride	5.13	117	246069	56.064	ug/L	100
33) Benzene	5.38	78	732512	53.560	ug/L	100
34) Trichloroethene	6.18	95	189995	56.641	ug/L	98
35) Methylcyclohexane	6.41	83	247522	47.814	ug/L	96
37) 1,2-Dichloropropane	6.43	63	202452	52.278	ug/L	100
38) Bromodichloromethane	6.75	83	260844	55.833	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	289311	52.487	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	647620	103.993	ug/L	97
42) Toluene	7.63	91	772696	55.349	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	260554	53.638	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	188397	57.362	ug/L	95
46) Tetrachloroethene	8.22	164	133370	54.688	ug/L	99
48) 2-Hexanone	8.36	43	517551	106.522	ug/L	97
49) Dibromochloromethane	8.47	129	204218	58.598	ug/L	99
50) 1,2-Dibromoethane	8.58	107	197480	55.566	ug/L	100
51) Chlorobenzene	9.12	112	458780	53.581	ug/L	96
52) Ethylbenzene	9.25	91	793866	52.169	ug/L	97
53) m,p-Xylene	9.37	106	286582	53.998	ug/L	99
54) o-xylene	9.77	106	282089	53.435	ug/L	99
55) Styrene	9.79	104	495826	54.757	ug/L	98
56) Isopropylbenzene	10.16	105	778502	56.011	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	329301	55.431	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	256883	55.385	ug/L	100
61) Bromoform	9.95	173	145927	52.057	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	340078	50.709	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	343919	50.415	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	363483	54.032	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	74709	52.240	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	245549	50.100	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	212644	51.028	ug/L	95
69) Naphthalene	13.74	128	698817	51.729	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	235136	54.006	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 43.970 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

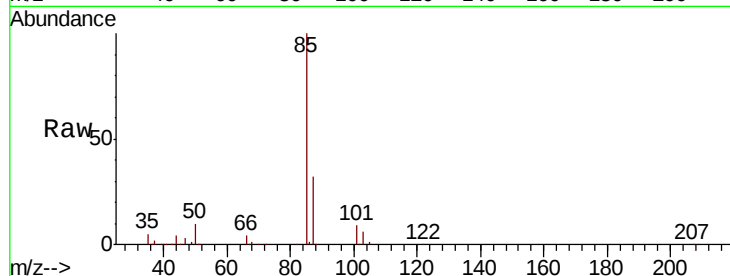
VSTD05036

Tot Ion: 85 Resp: 175407

Ion Ratio Lower Upper

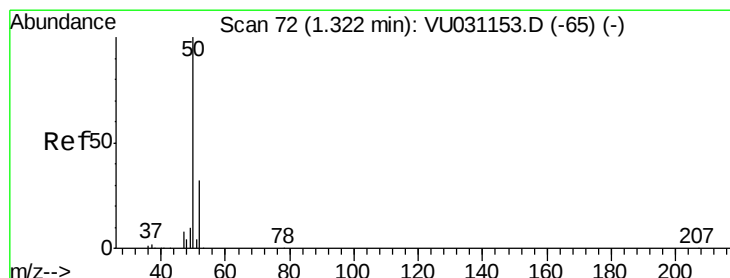
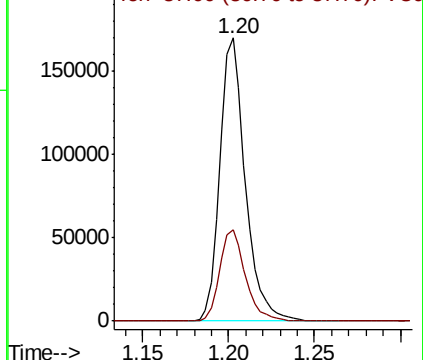
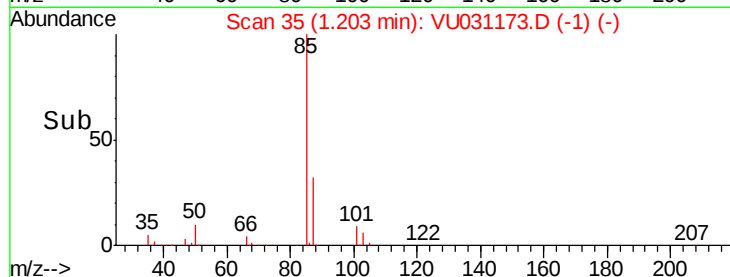
85 100

87 32.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU031173.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031173.D (-1) (-)



#3

Chloromethane

Concen: 41.461 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031173.D

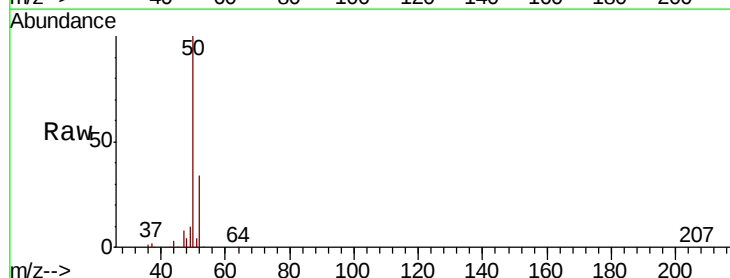
Acq: 13 Apr 2019 21:40

Tgt Ion: 50 Resp: 213939

Ion Ratio Lower Upper

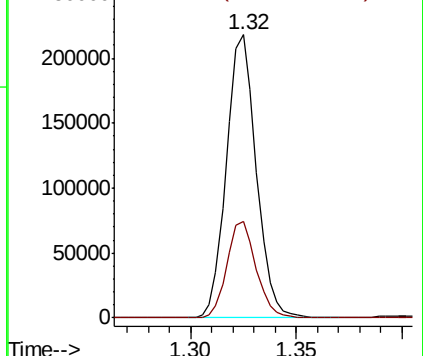
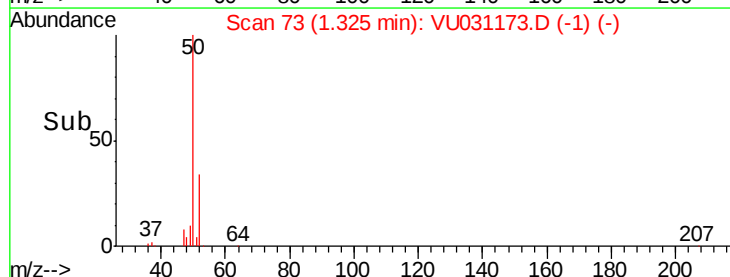
50 100

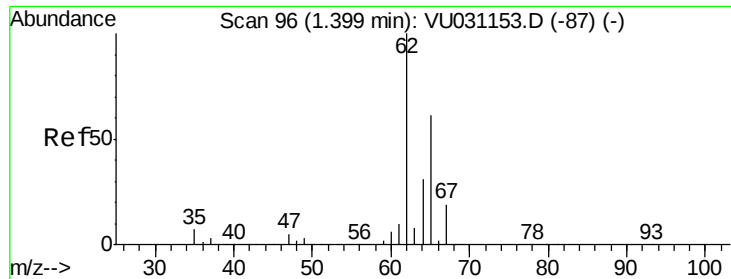
52 34.0 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU031173.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU031173.D (-1) (-)





#5

Vinyl chloride

Concen: 43.494 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

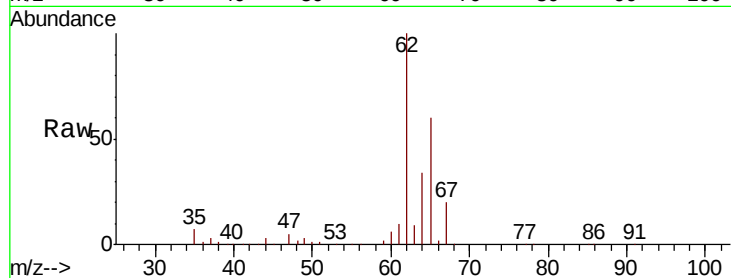
VSTD05036

Tot Ion: 62 Resp: 217251

Ion Ratio Lower Upper

62 100

64 34.4 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

250000

200000

150000

100000

50000

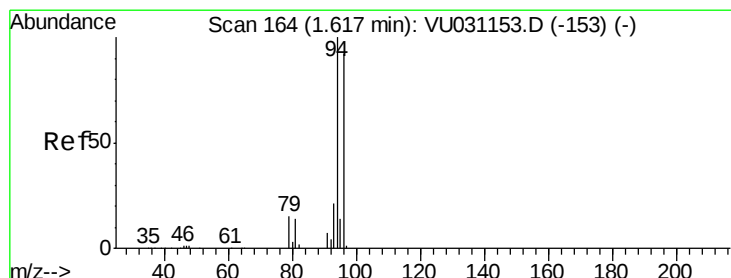
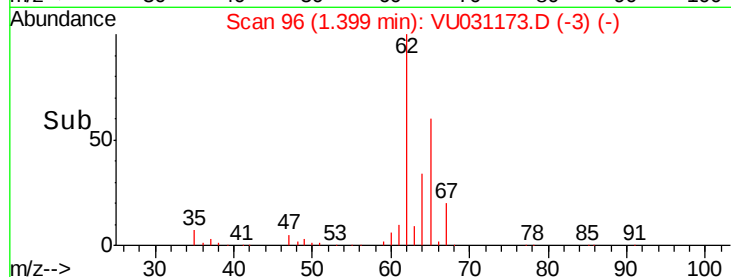
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 45.335 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU031173.D

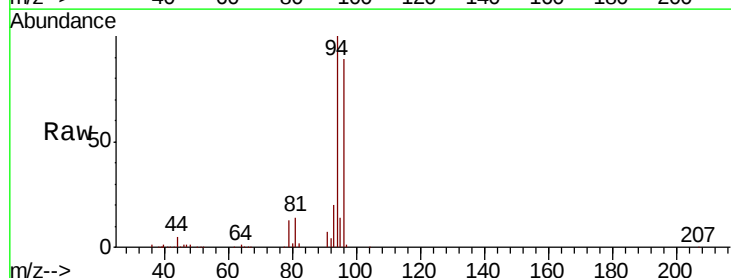
Acq: 13 Apr 2019 21:40

Tgt Ion: 94 Resp: 117320

Ion Ratio Lower Upper

94 100

96 89.4 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

100000

80000

60000

40000

20000

0

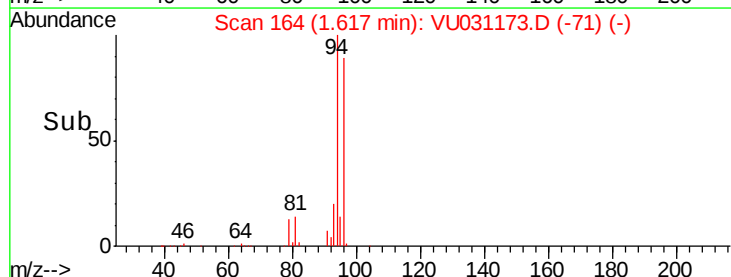
1.55

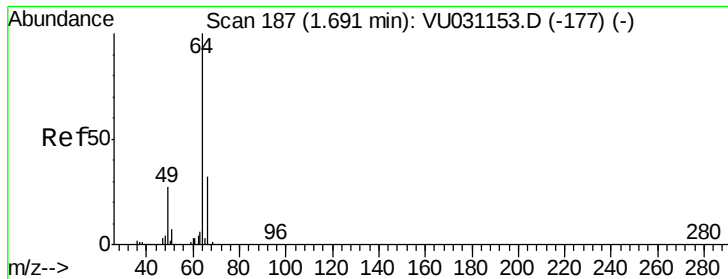
1.60

1.65

1.70

Time-->





#8

Chloroethane

Concen: 45.596 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

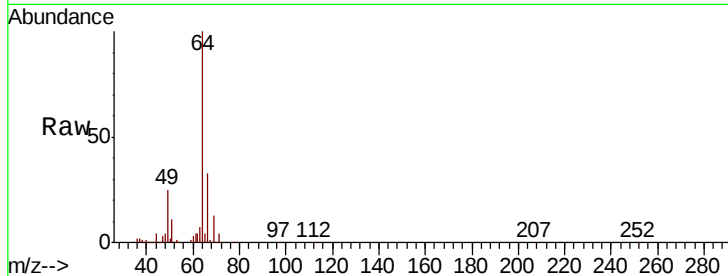
VSTD05036

Tot Ion: 64 Resp: 129897

Ion Ratio Lower Upper

64 100

66 33.0 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU031153.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU031153.D (-177) (-)

1.69

100000

80000

60000

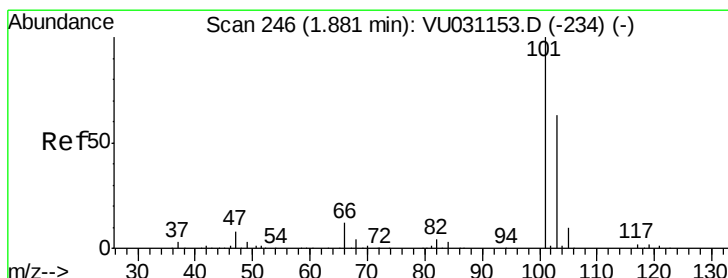
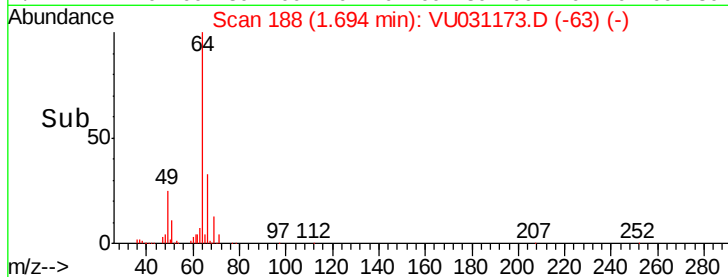
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 49.620 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031173.D

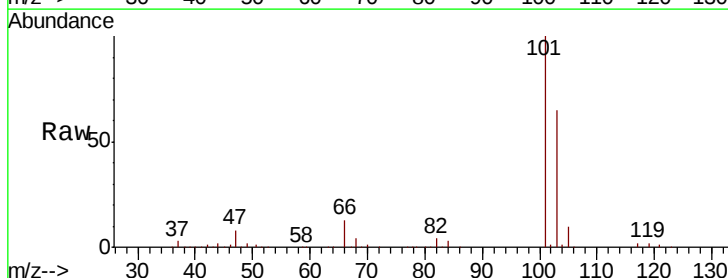
Acq: 13 Apr 2019 21:40

Tgt Ion:101 Resp: 288791

Ion Ratio Lower Upper

101 100

103 64.6 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU031153.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU031153.D (-234) (-)

1.88

200000

150000

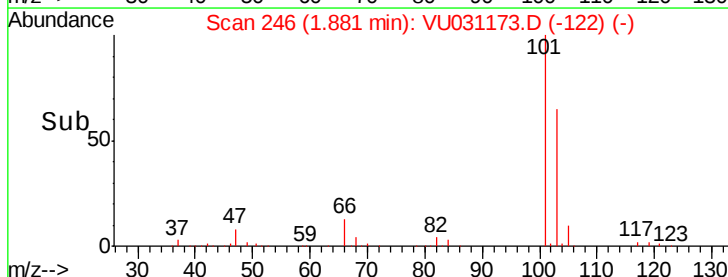
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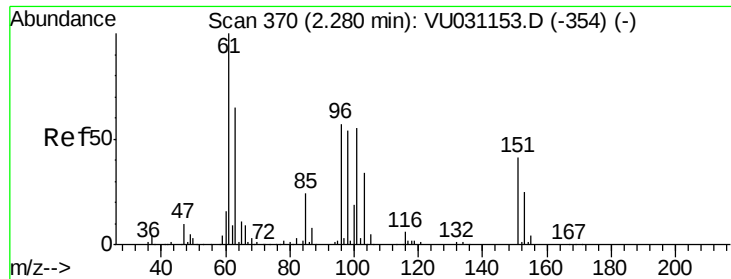
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 46.340 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampled :

VSTD05036

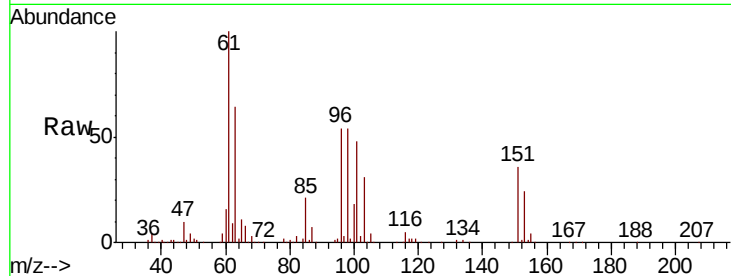
Tot Ion:101 Resp: 150696

Ion Ratio Lower Upper

101 100

85 43.3 36.8 55.2

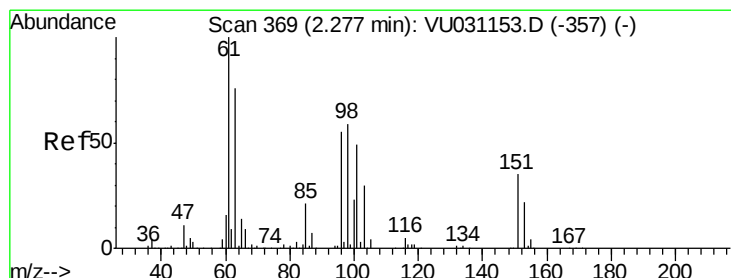
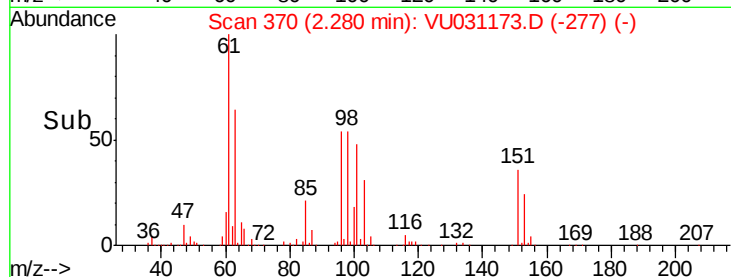
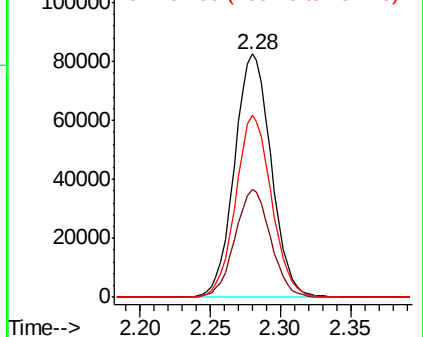
151 72.9 57.4 86.0



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: 46.995 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

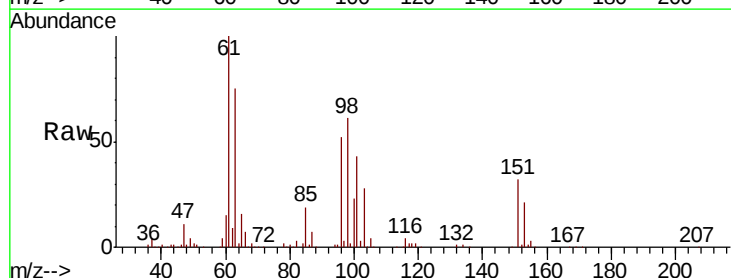
Tgt Ion: 96 Resp: 147533

Ion Ratio Lower Upper

96 100

61 190.5 132.0 245.2

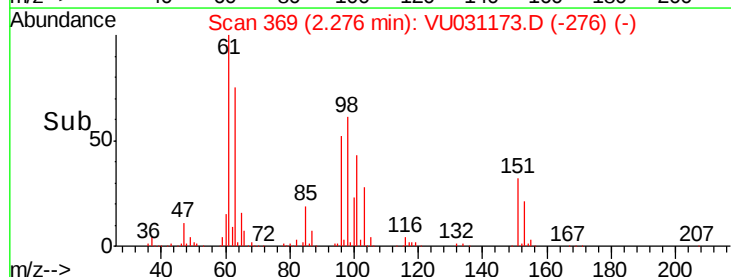
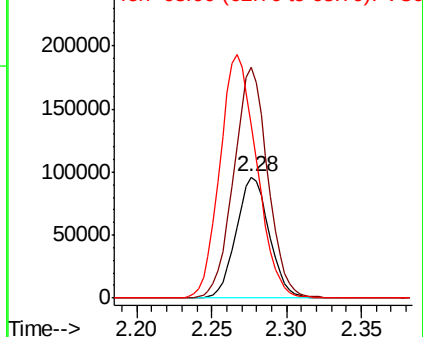
63 143.6 90.9 168.9

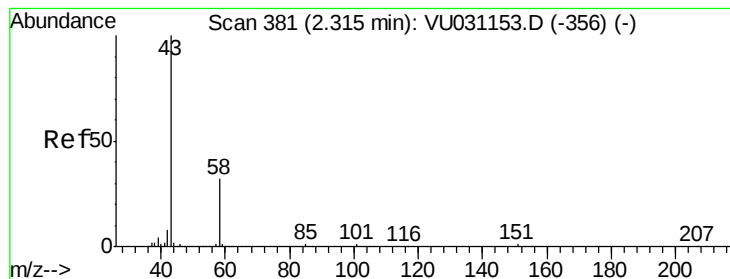


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 72.421 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

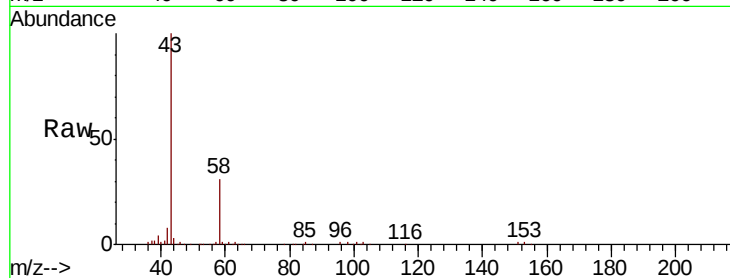
VSTD05036

Tot Ion: 43 Resp: 238112

Ion Ratio Lower Upper

43 100

58 31.7 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU031173.D (-356) (-)

Ion 58.00 (57.70 to 58.70): VU031173.D (-356) (-)

2.32

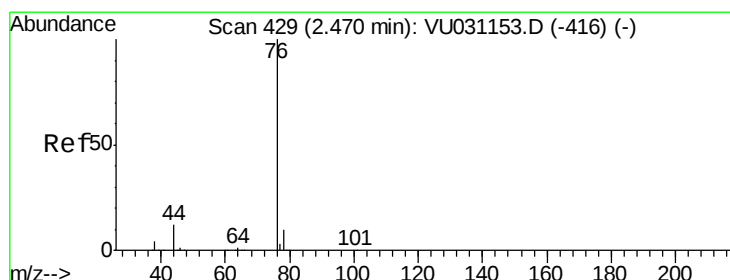
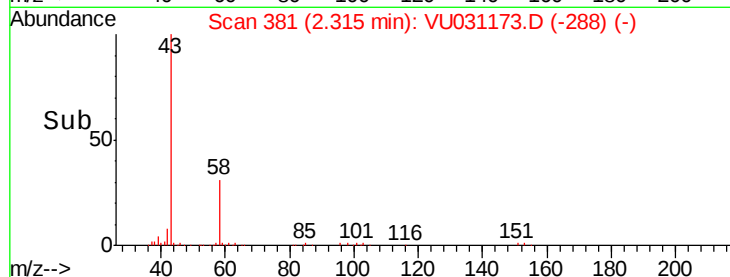
150000

100000

50000

0

Time--> 2.20 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 40.749 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031173.D

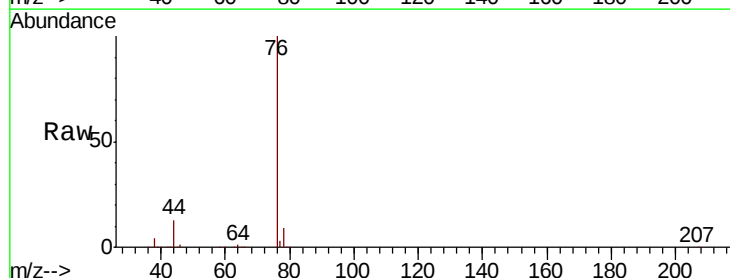
Acq: 13 Apr 2019 21:40

Tgt Ion: 76 Resp: 397404

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VU031173.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU031173.D (-416) (-)

2.47

250000

200000

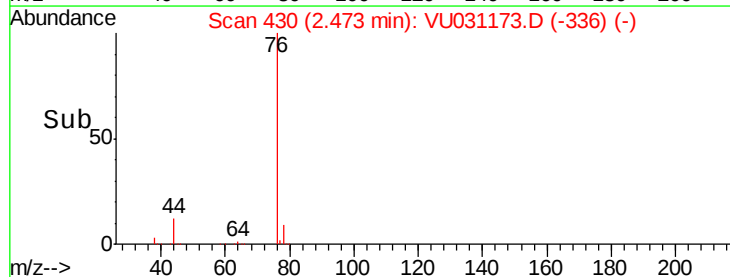
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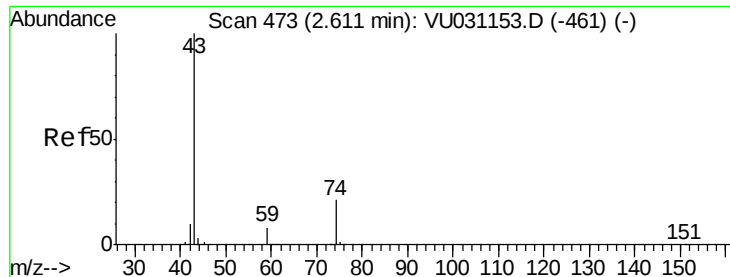
100000

50000

0

Time--> 2.40 2.45 2.50 2.55





#15

Methyl Acetate

Concen: 47.498 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

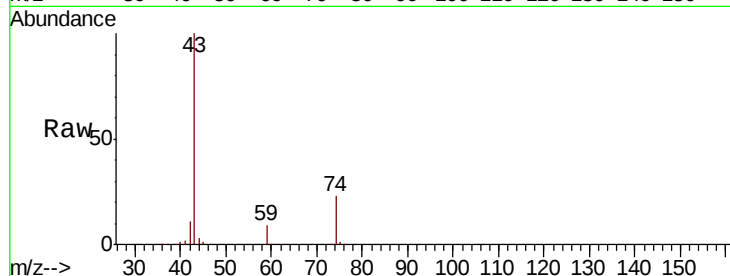
VSTD05036

Tot Ion: 43 Resp: 242139

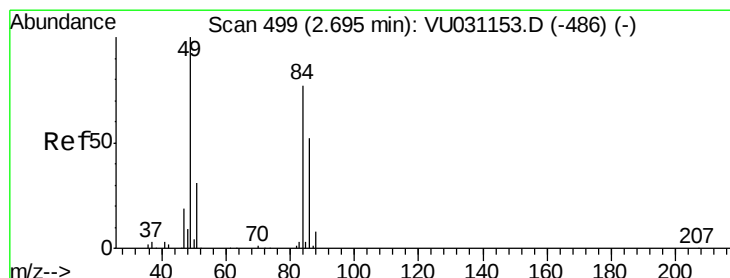
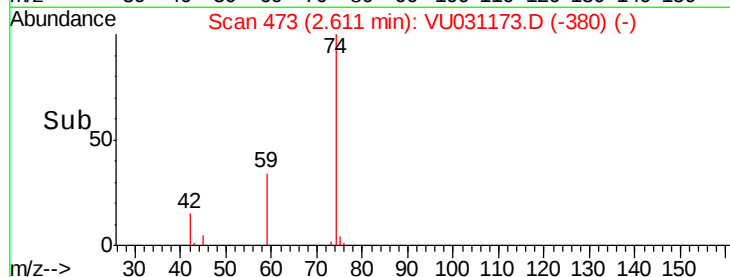
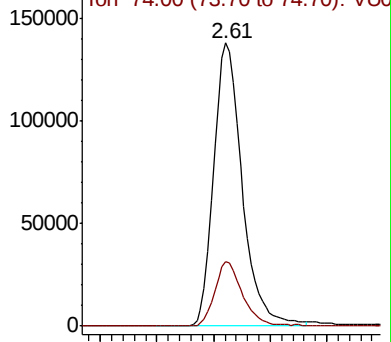
Ion Ratio Lower Upper

43 100

74 21.8 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VU031173.D (-380) (-)



#16

Methylene chloride

Concen: 47.851 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

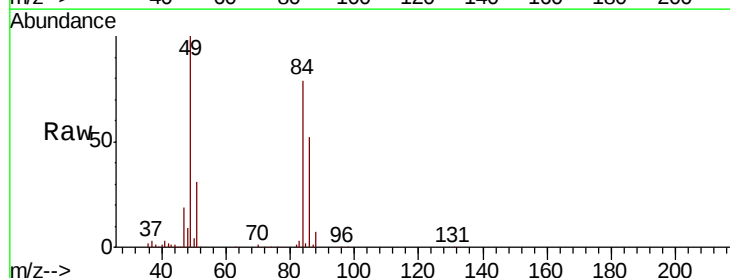
Tgt Ion: 84 Resp: 182486

Ion Ratio Lower Upper

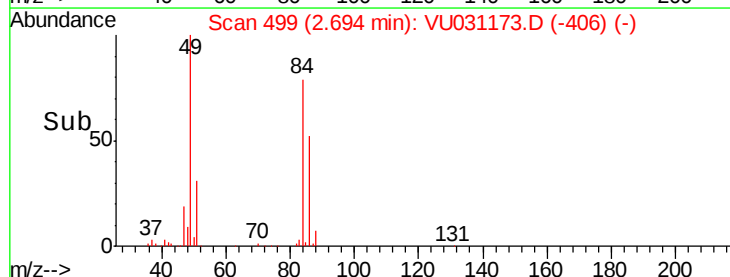
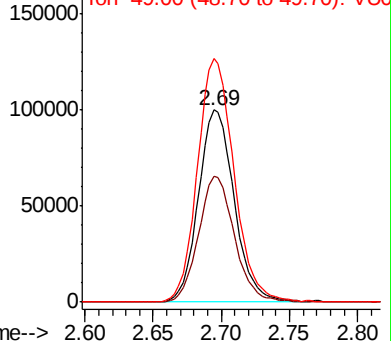
84 100

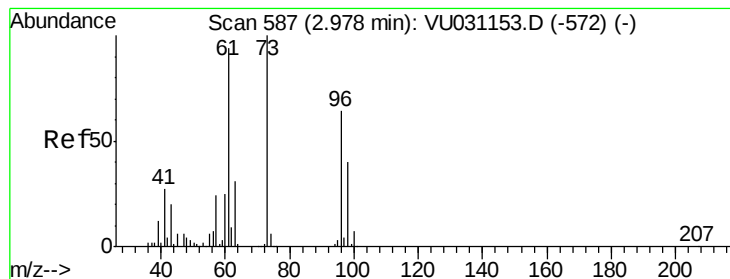
86 65.8 45.1 83.7

49 126.9 96.5 179.1



Abundance Ion 84.00 (83.70 to 84.70): VU031173.D (-406) (-)





#17

trans-1,2-Dichloroethene

Concen: 47.767 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

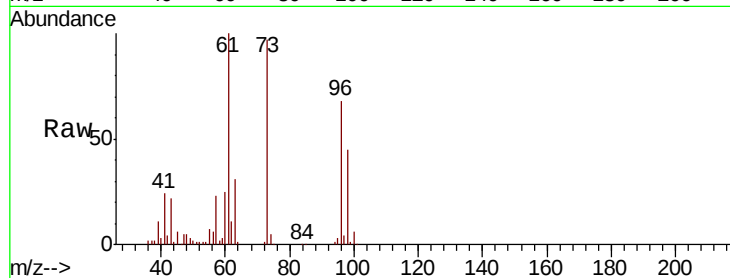
Tot Ion: 96 Resp: 159220

Ion Ratio Lower Upper

96 100

61 148.0 109.5 203.3

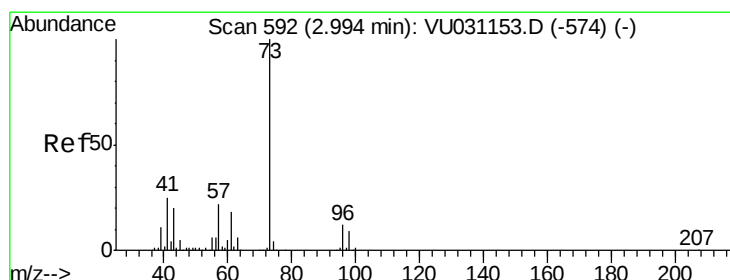
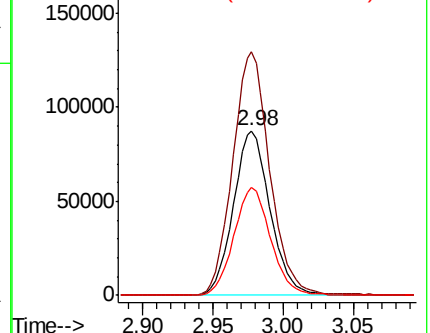
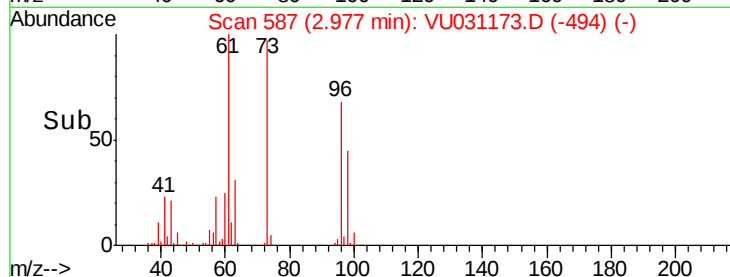
98 66.0 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031173.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU031173.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU031173.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 49.686 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

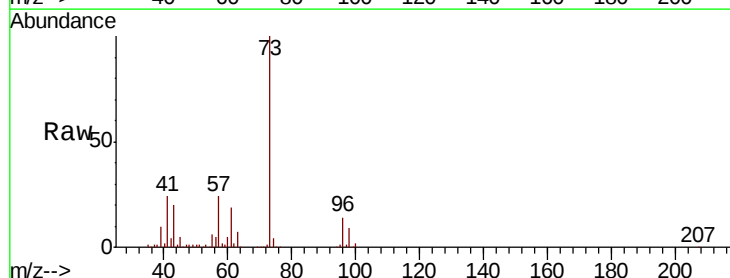
Tgt Ion: 73 Resp: 554776

Ion Ratio Lower Upper

73 100

43 20.2 16.4 24.6

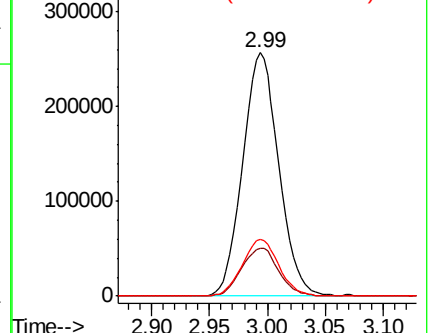
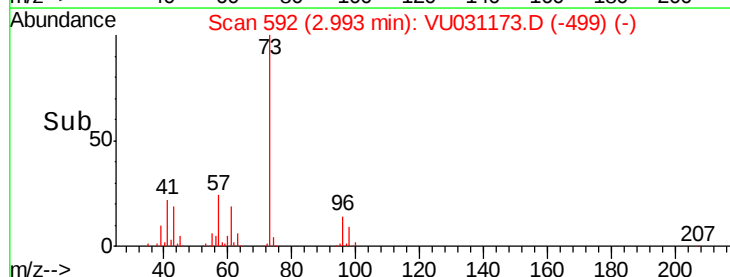
57 23.6 19.0 28.4

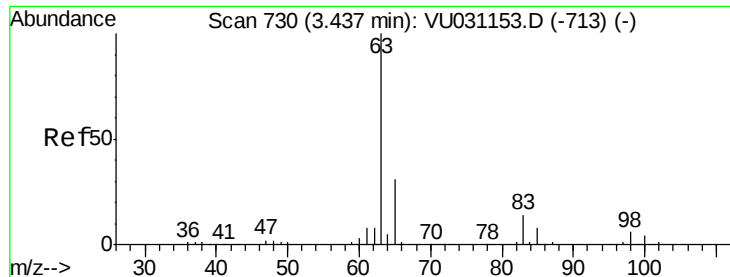


Abundance Ion 73.00 (72.70 to 73.70): VU031173.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031173.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031173.D (-499) (-)

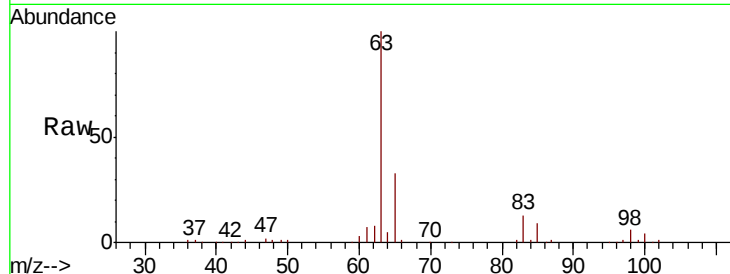




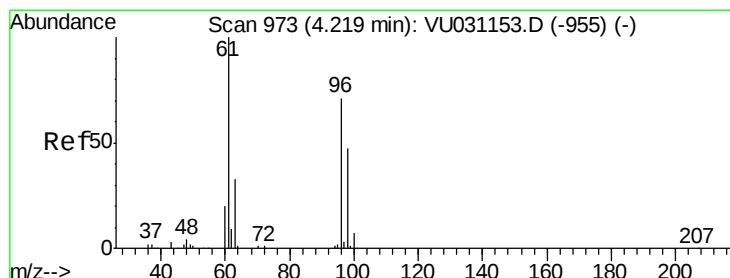
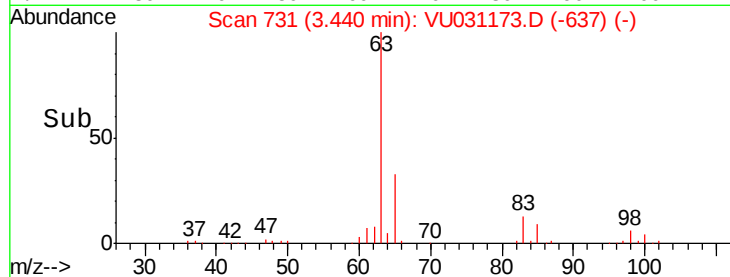
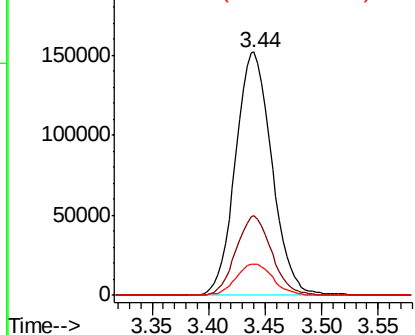
#19
 1,1-Dichloroethane
 Concen: 49.511 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031173.D
 Acq: 13 Apr 2019 21:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tot Ion: 63 Resp: 340578
 Ion Ratio Lower Upper
 63 100
 65 32.9 21.4 39.8
 83 12.9 8.5 15.7

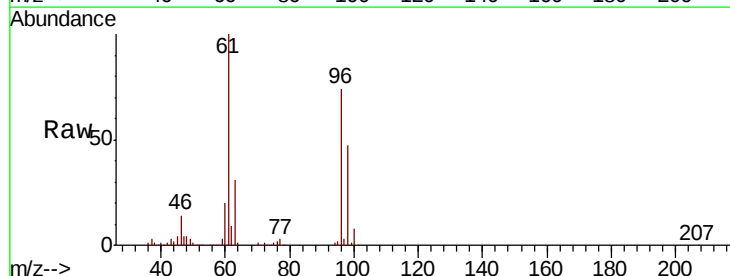


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

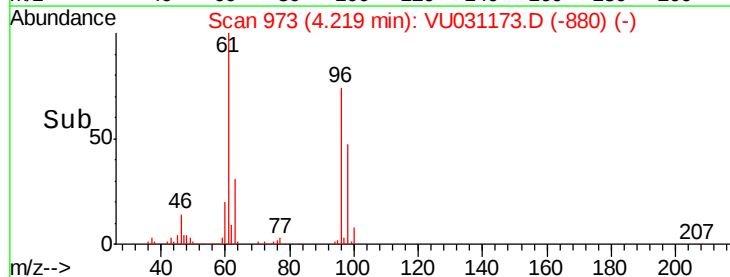
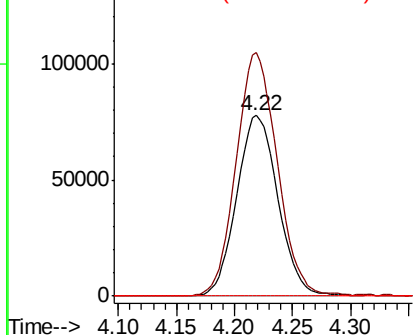


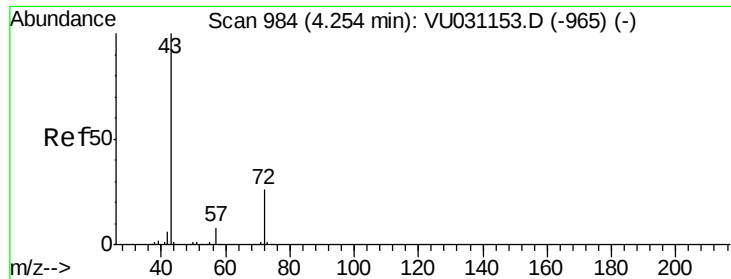
#20
 cis-1,2-Dichloroethene
 Concen: 52.250 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031173.D
 Acq: 13 Apr 2019 21:40

Tgt Ion: 96 Resp: 192307
 Ion Ratio Lower Upper
 96 100
 61 134.6 102.9 191.1
 68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 95.039 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

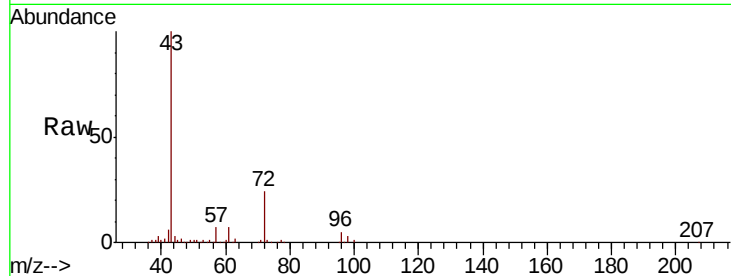
VSTD05036

Tot Ion: 43 Resp: 366371

Ion Ratio Lower Upper

43 100

72 25.4 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU031173.D (-891) (-)

Ion 72.00 (71.70 to 72.70): VU031173.D (-891) (-)

4.26

150000

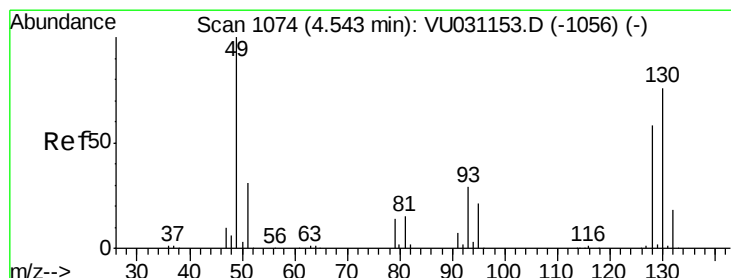
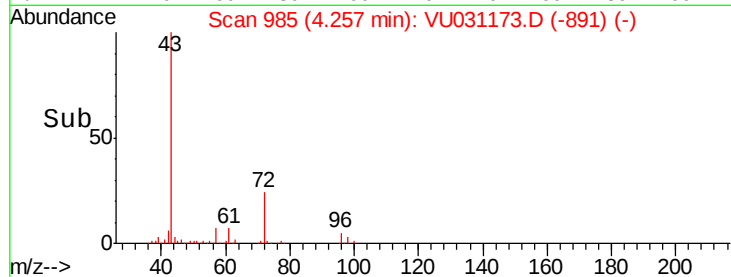
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 56.060 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Tgt Ion: 128 Resp: 97545

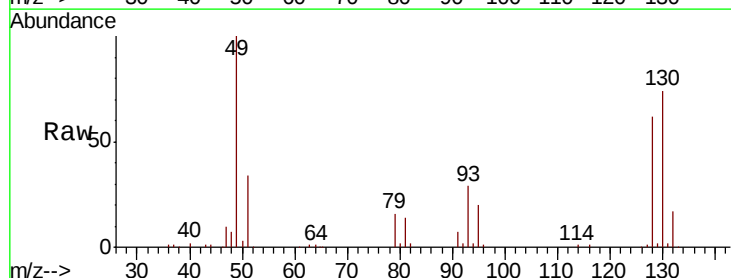
Ion Ratio Lower Upper

128 100

49 162.6 139.9 259.7

130 121.0 86.6 160.8

51 54.5 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU031173.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU031173.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU031173.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU031173.D (-981) (-)

100000

80000

60000

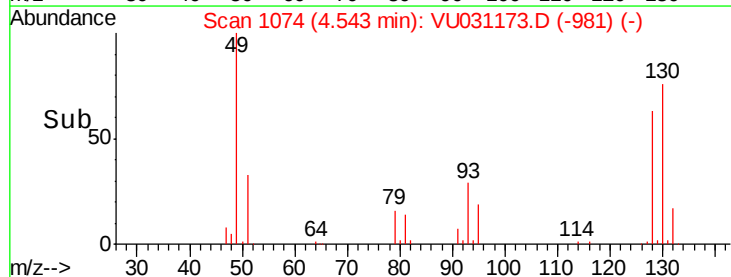
40000

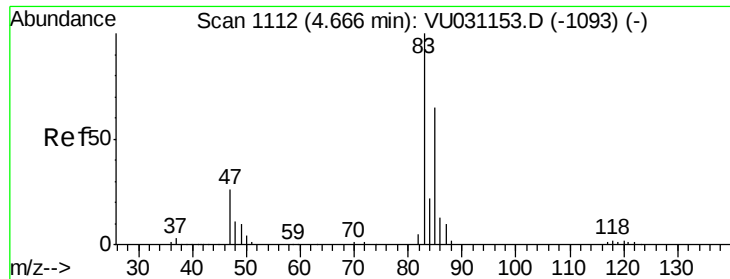
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->

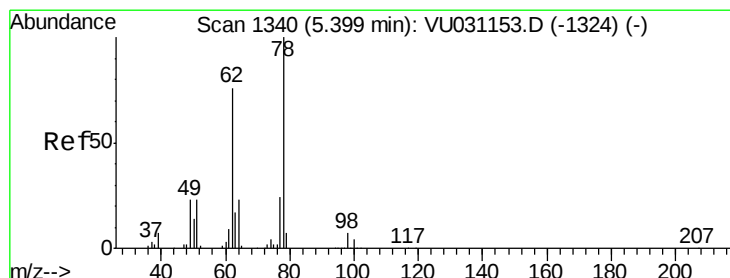
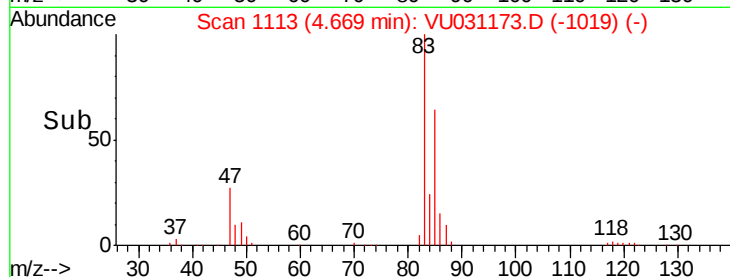
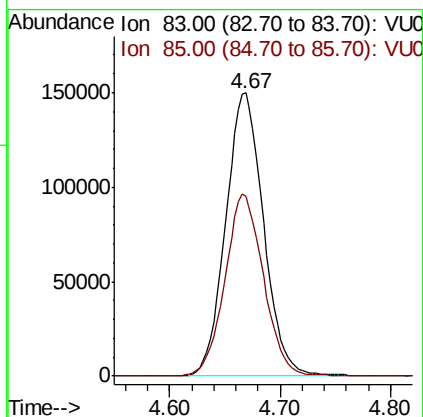
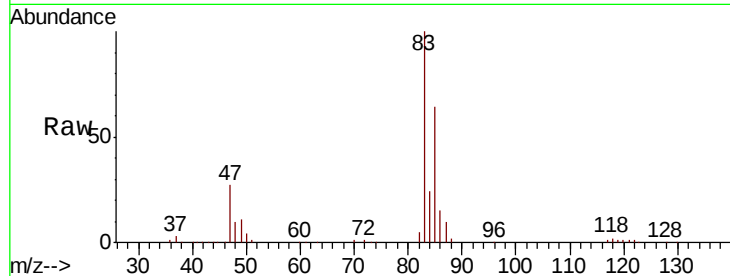




#25
Chloroform
Concen: 51.502 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031173.D
Acq: 13 Apr 2019 21:40

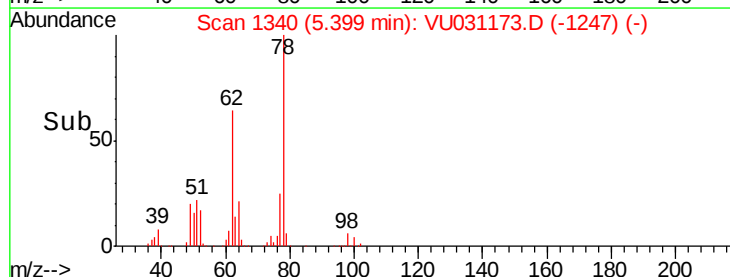
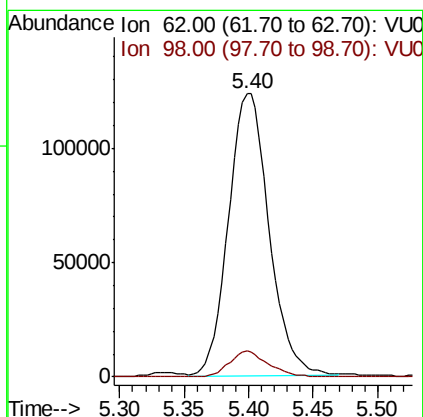
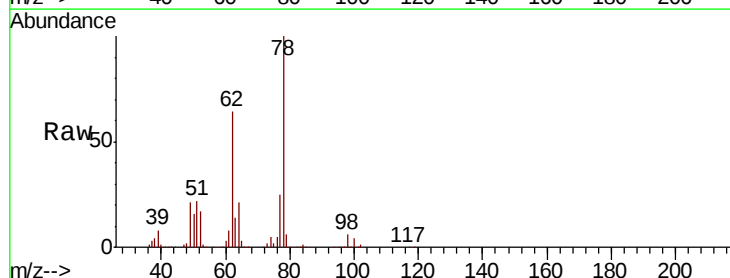
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

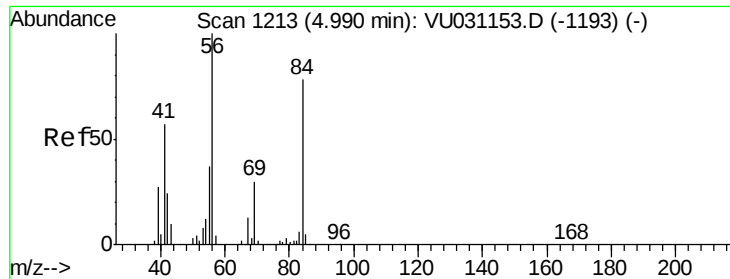
Tot Ion: 83 Resp: 356075
Ion Ratio Lower Upper
83 100
85 63.6 45.8 85.0



#27
1,2-Dichloroethane
Concen: 50.861 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031173.D
Acq: 13 Apr 2019 21:40

Tgt Ion: 62 Resp: 268381
Ion Ratio Lower Upper
62 100
98 9.0 7.2 10.8

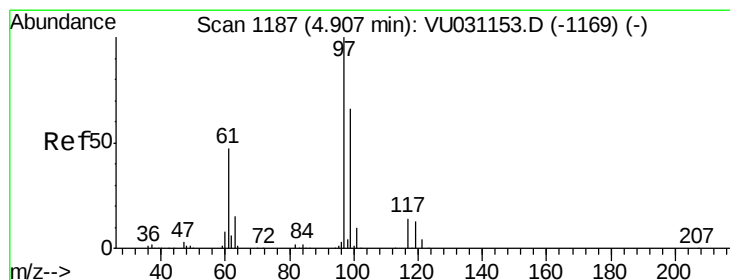
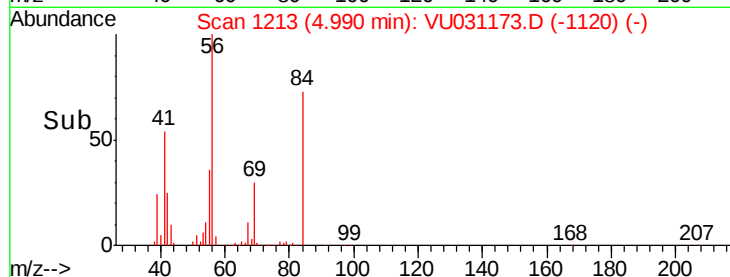
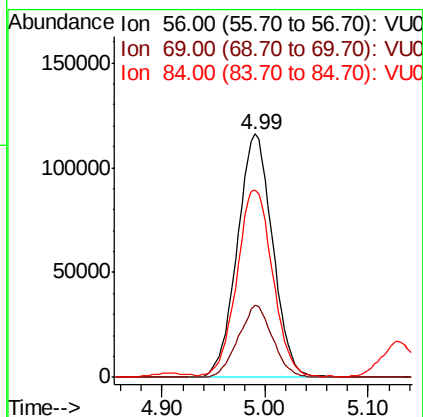
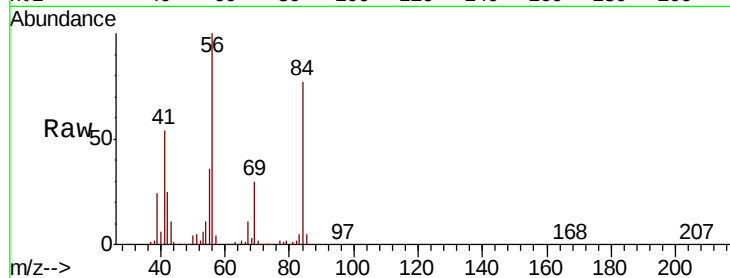




#29
Cyclohexane
Concen: 46.390 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU031173.D
Acq: 13 Apr 2019 21:40

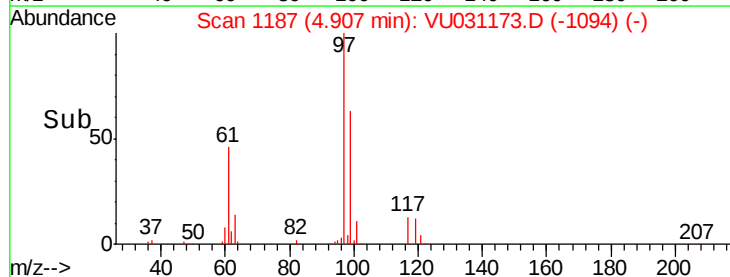
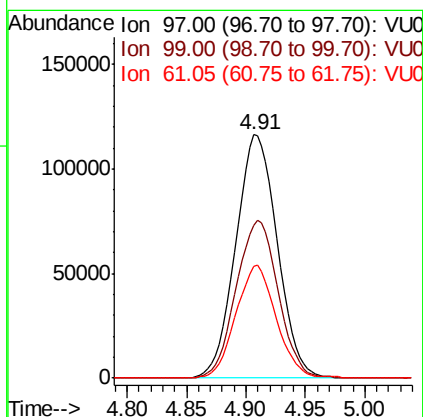
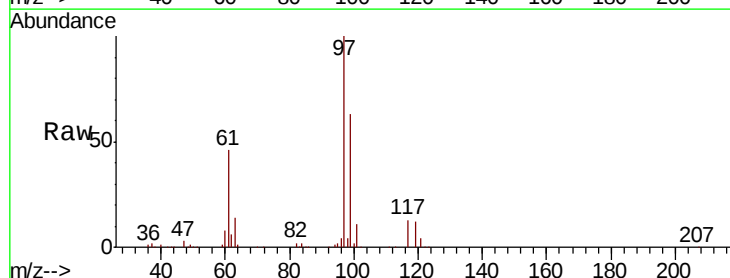
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

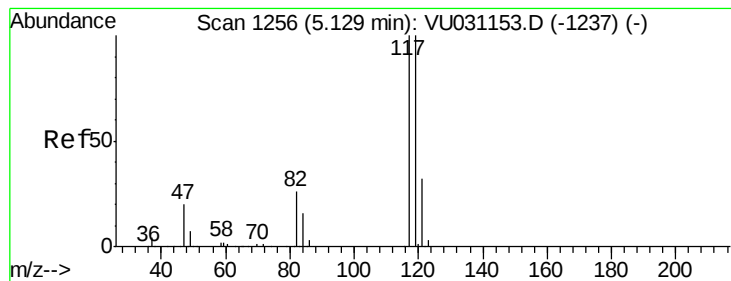
Tot Ion: 56 Resp: 276327
Ion Ratio Lower Upper
56 100
69 28.7 22.0 33.0
84 77.8 58.2 87.2



#30
1,1,1-Trichloroethane
Concen: 55.393 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU031173.D
Acq: 13 Apr 2019 21:40

Tgt Ion: 97 Resp: 282131
Ion Ratio Lower Upper
97 100
99 65.4 51.4 77.2
61 44.8 37.1 55.7





#31

Carbon tetrachloride

Concen: 56.064 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

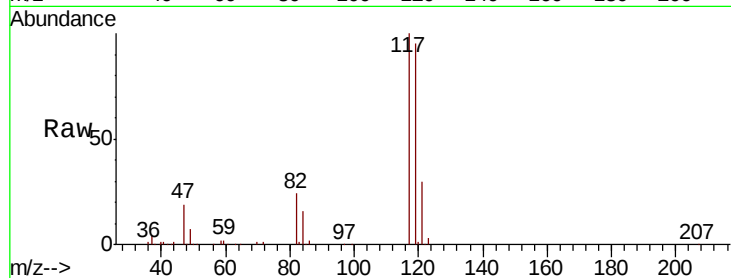
VSTD05036

Tot Ion:117 Resp: 246069

Ion Ratio Lower Upper

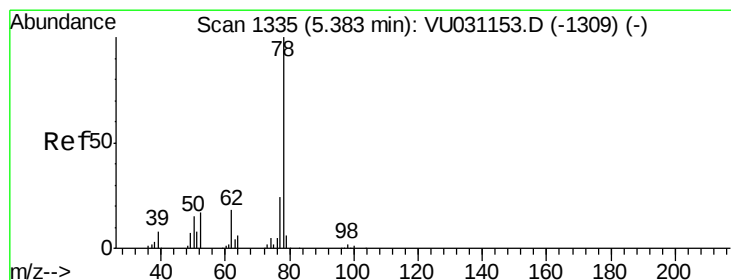
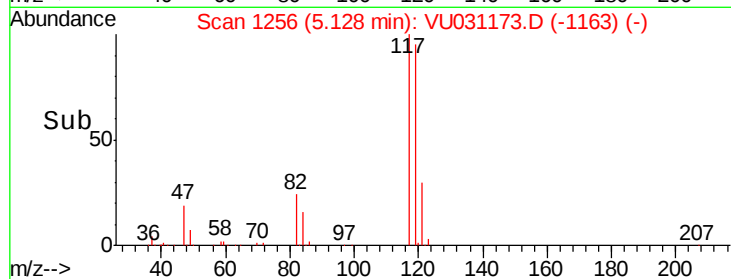
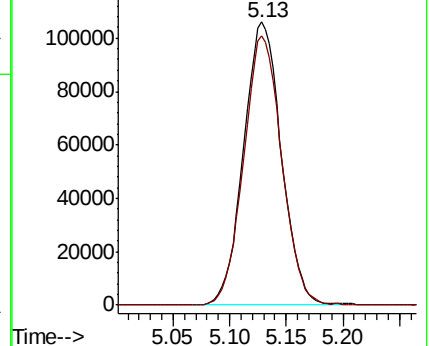
117 100

119 95.6 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.560 ug/L

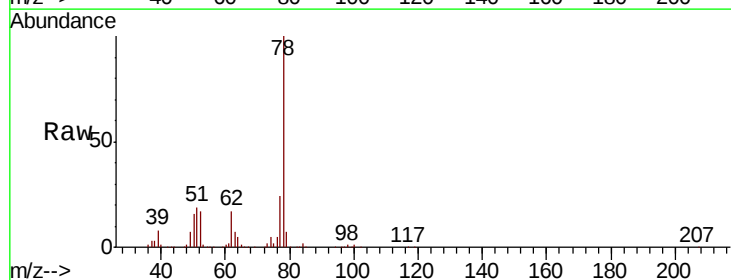
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

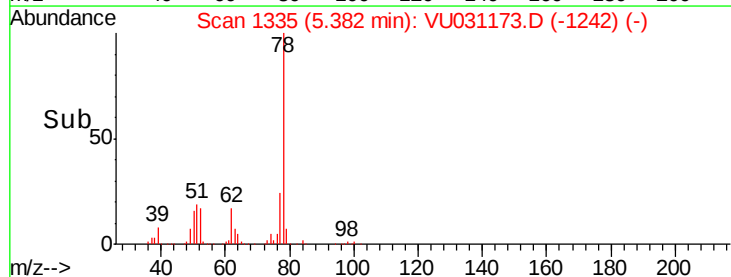
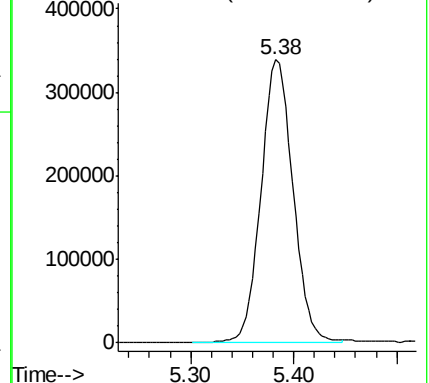
Lab File: VU031173.D

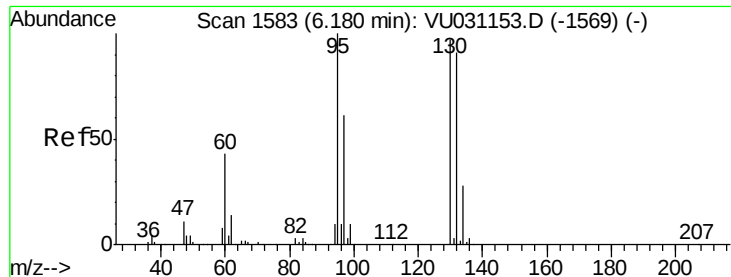
Acq: 13 Apr 2019 21:40

Tgt Ion: 78 Resp: 732512



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 56.641 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

Tot Ion: 95 Resp: 189995

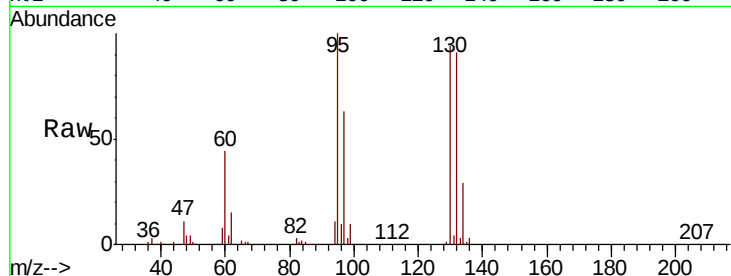
Ion Ratio Lower Upper

95 100

97 62.7 44.5 82.7

132 90.7 61.5 114.1

130 94.2 64.9 120.5

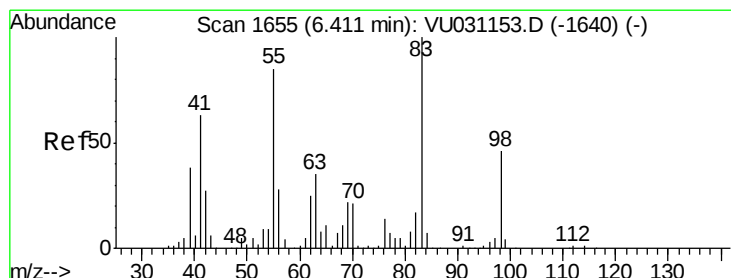
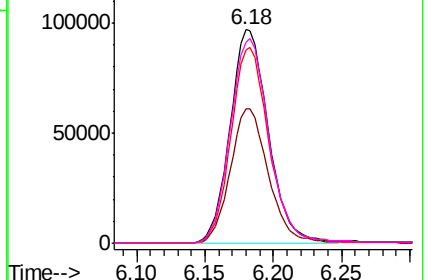
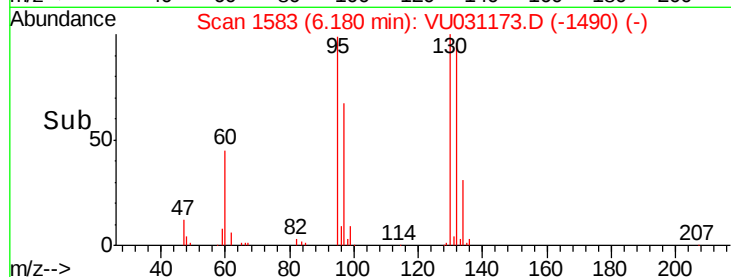


Abundance Ion 95.00 (94.70 to 95.70): VU031173.D (-1490) (-)

Ion 97.00 (96.70 to 97.70): VU031173.D (-1490) (-)

Ion 132.00 (131.70 to 132.70): VU031173.D (-1490) (-)

Ion 130.00 (129.70 to 130.70): VU031173.D (-1490) (-)



#35

Methylcyclohexane

Concen: 47.814 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

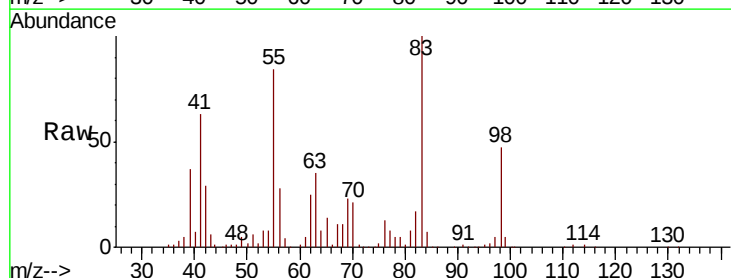
Tgt Ion: 83 Resp: 247522

Ion Ratio Lower Upper

83 100

55 85.6 71.6 107.4

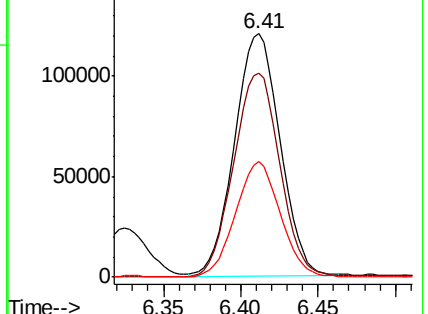
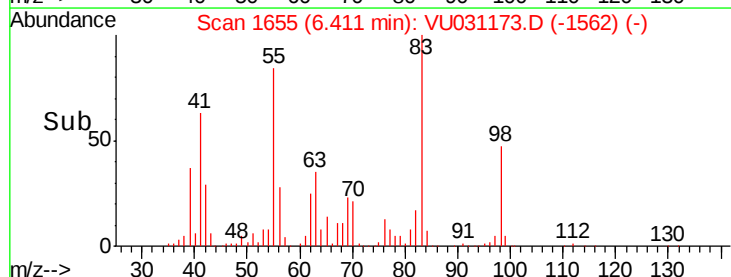
98 46.9 35.4 53.0

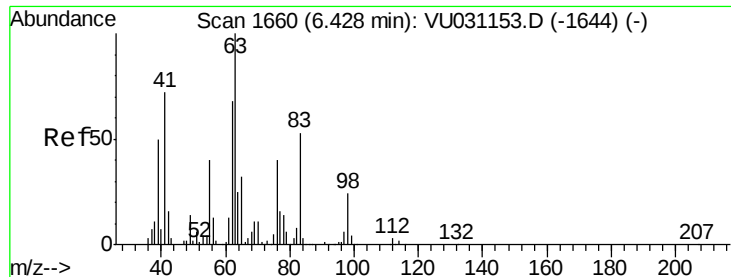


Abundance Ion 83.00 (82.70 to 83.70): VU031173.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU031173.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU031173.D (-1562) (-)





#37

1,2-Dichloropropane

Concen: 52.278 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

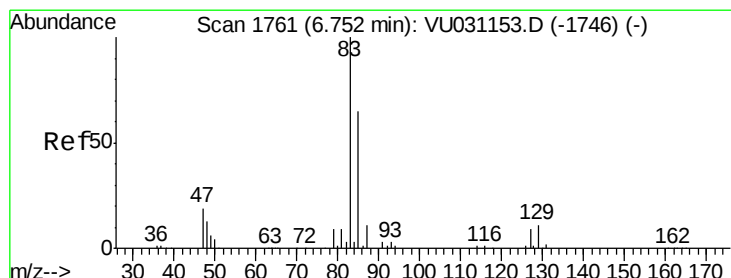
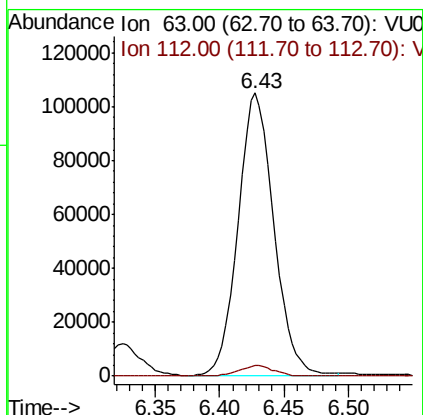
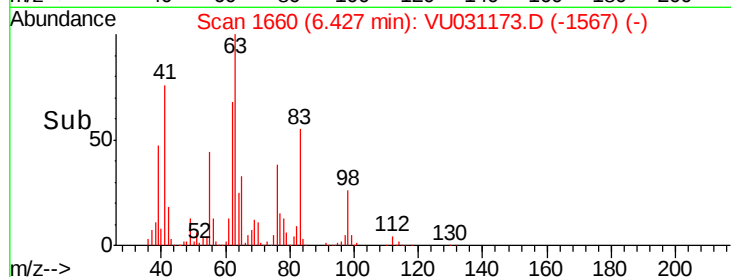
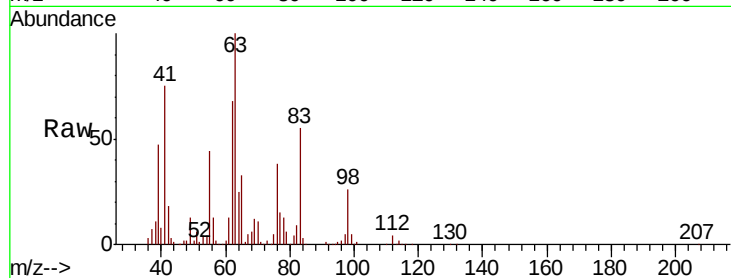
VSTD05036

Tot Ion: 63 Resp: 202452

Ion Ratio Lower Upper

63 100

112 3.6 3.0 4.4



#38

Bromodichloromethane

Concen: 55.833 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

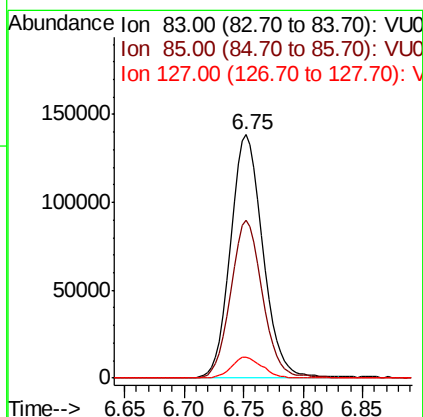
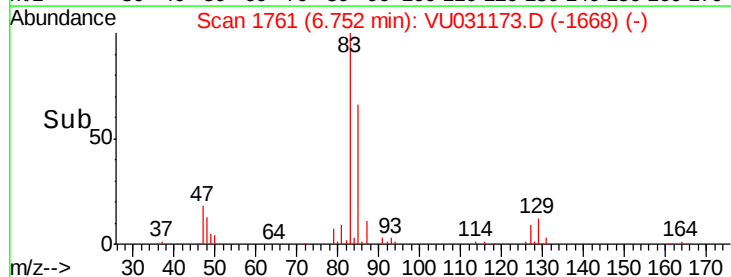
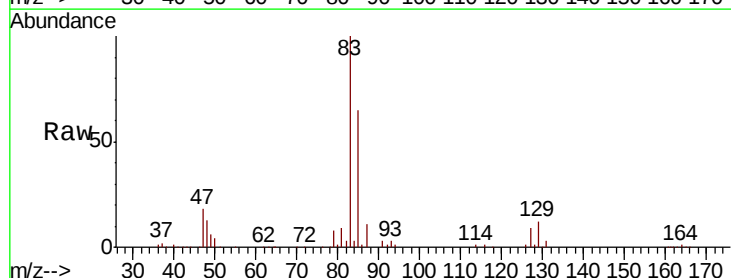
Tgt Ion: 83 Resp: 260844

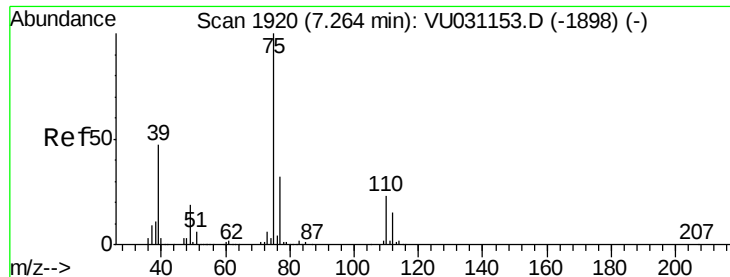
Ion Ratio Lower Upper

83 100

85 64.9 46.5 86.3

127 8.6 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 52.487 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

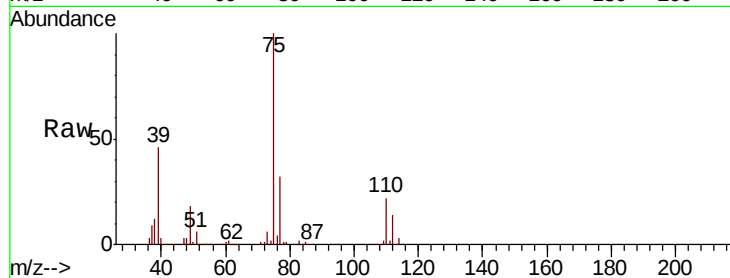
VSTD05036

Tot Ion: 75 Resp: 289311

Ion Ratio Lower Upper

75 100

77 31.8 23.1 42.9



Abundance Ion 75.00 (74.70 to 75.70): VU031153.D (-1898) (-)

Ion 77.00 (76.70 to 77.70): VU031153.D (-1898) (-)

7.27

150000

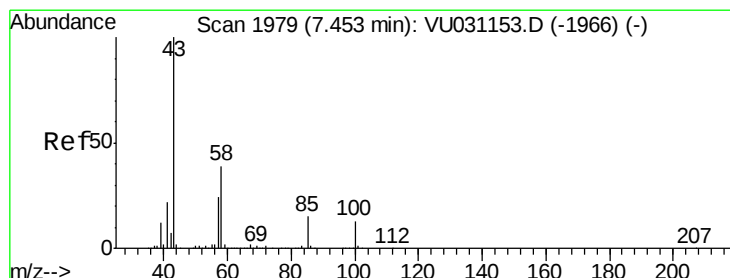
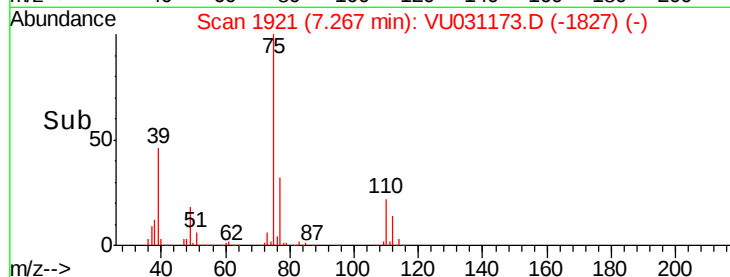
100000

50000

0

7.20 7.30 7.40

Time-->



#40

4-Methyl-2-pentanone

Concen: 103.993 ug/L

RT: 7.46 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

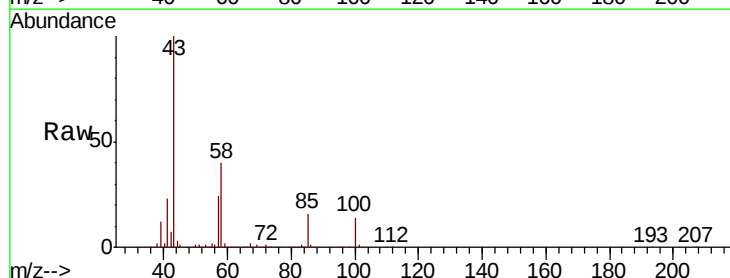
Tgt Ion: 43 Resp: 647620

Ion Ratio Lower Upper

43 100

58 38.6 29.7 44.5

100 13.4 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VU031153.D (-1966) (-)

Ion 58.00 (57.70 to 58.70): VU031153.D (-1966) (-)

Ion 100.00 (99.70 to 100.70): VU031153.D (-1966) (-)

7.46

500000

400000

300000

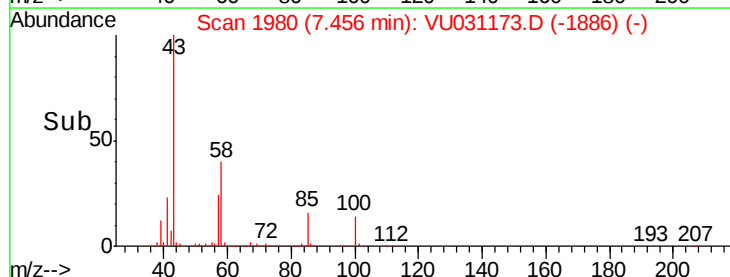
200000

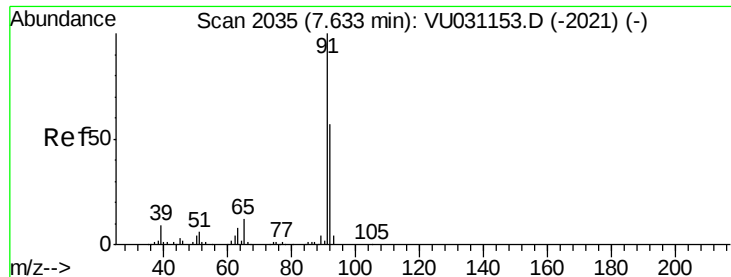
100000

0

7.35 7.40 7.45 7.50 7.55

Time-->





#42

Toluene

Concen: 55.349 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

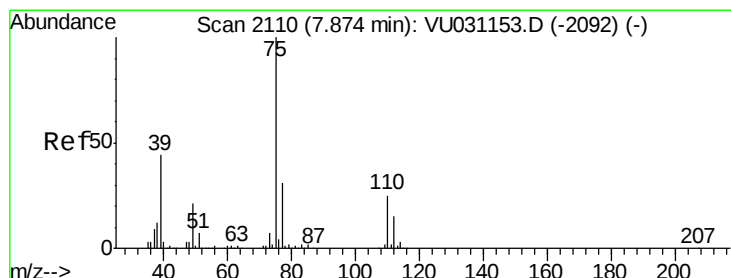
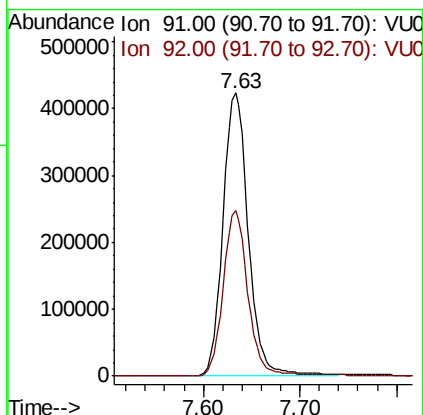
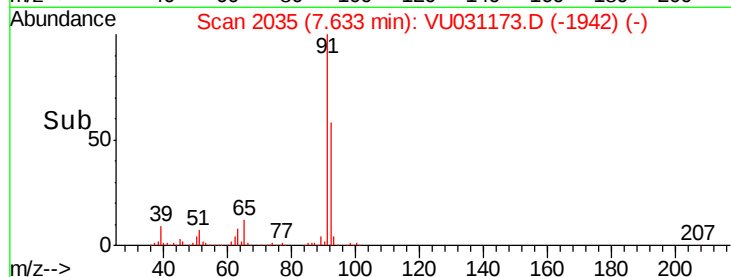
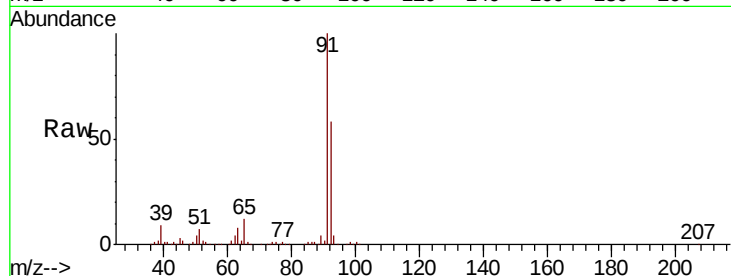
VSTD05036

Tot Ion: 91 Resp: 772696

Ion Ratio Lower Upper

91 100

92 58.3 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 53.638 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031173.D

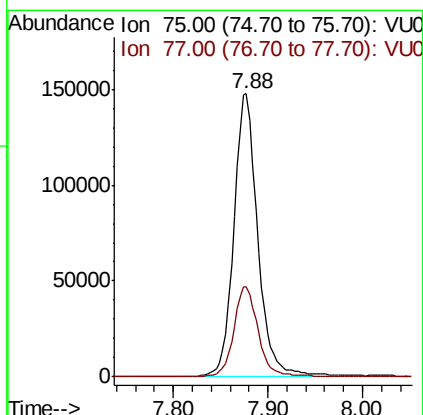
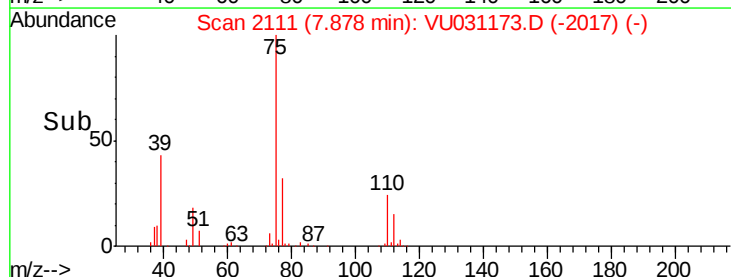
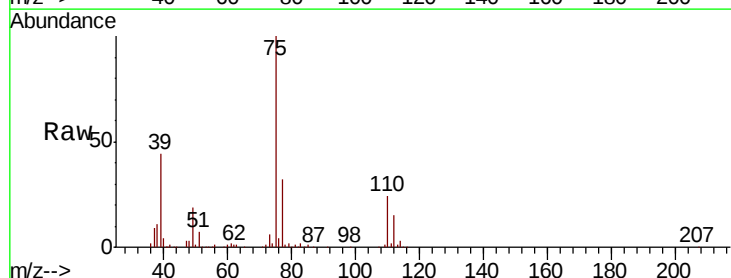
Acq: 13 Apr 2019 21:40

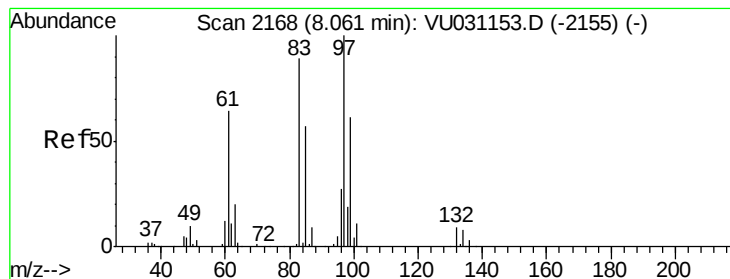
Tgt Ion: 75 Resp: 260554

Ion Ratio Lower Upper

75 100

77 31.8 21.6 40.0





#45

1,1,2-Trichloroethane

Concen: 57.362 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

Tot Ion: 97 Resp: 188397

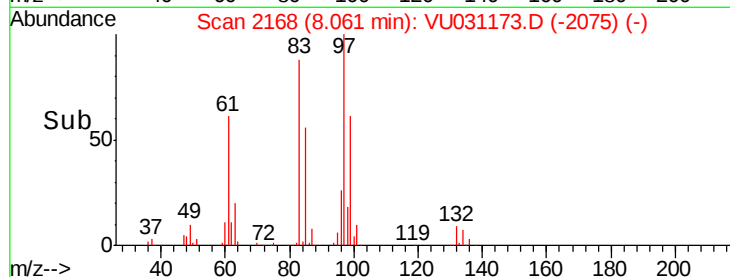
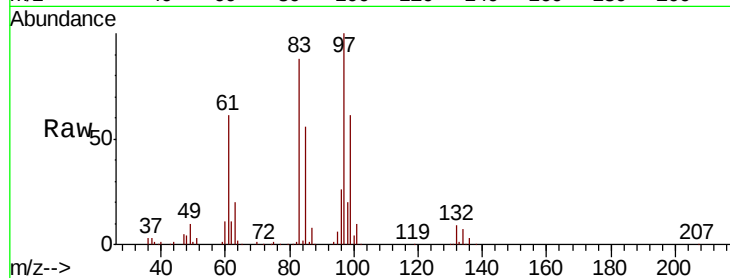
Ion	Ratio	Lower	Upper
97	100		
99	60.6	44.0	81.8
83	88.3	65.3	121.3
85	55.8	42.5	78.9

97 100

99 60.6 44.0 81.8

83 88.3 65.3 121.3

85 55.8 42.5 78.9

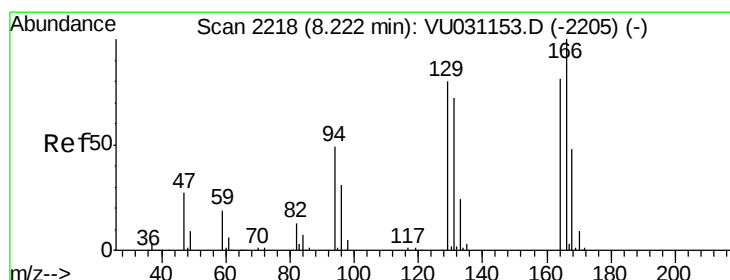
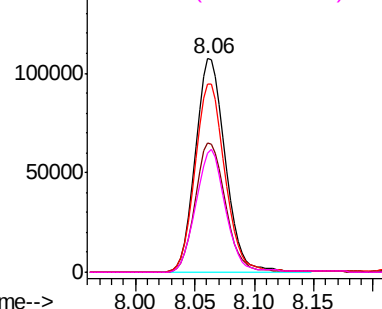


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 54.688 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Tgt Ion: 164 Resp: 133370

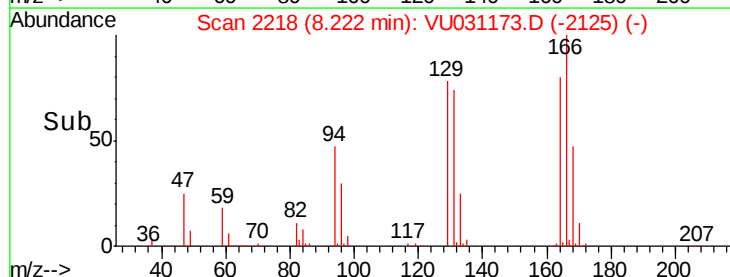
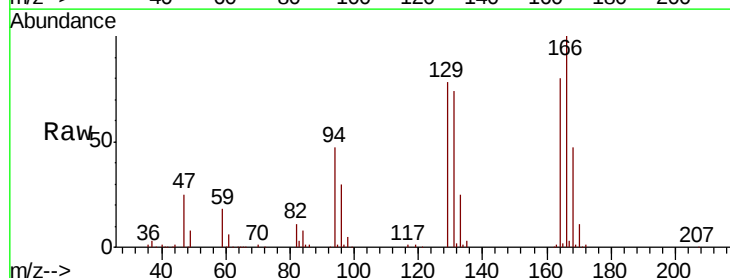
Ion	Ratio	Lower	Upper
164	100		
129	97.5	67.4	125.2
131	93.5	65.9	122.5
166	125.6	88.6	164.6

164 100

129 97.5 67.4 125.2

131 93.5 65.9 122.5

166 125.6 88.6 164.6

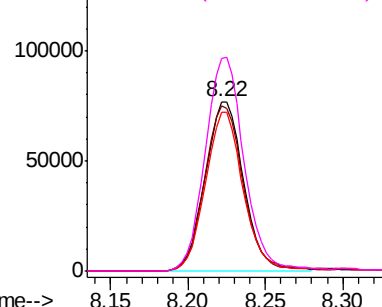


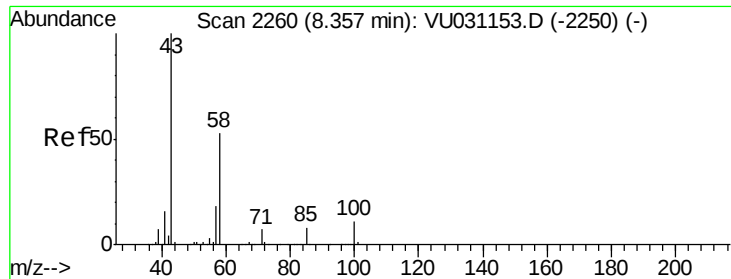
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

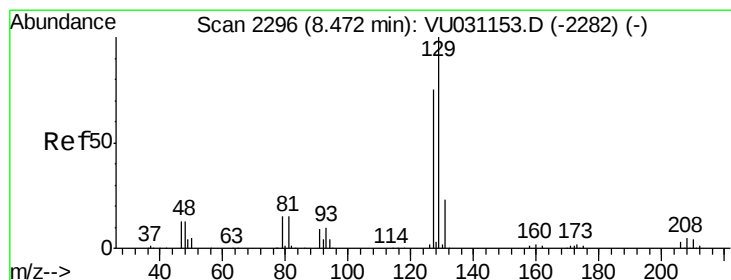
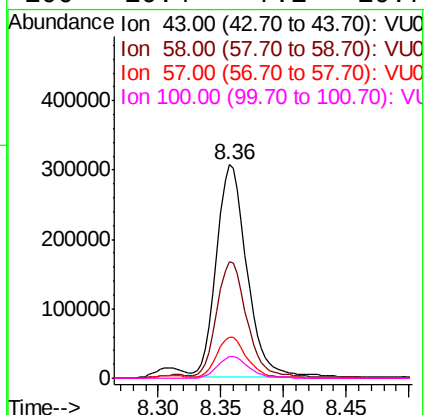
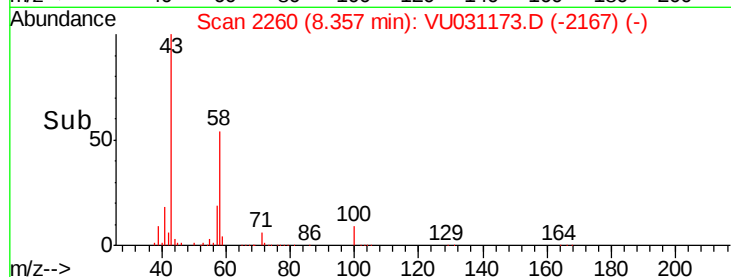
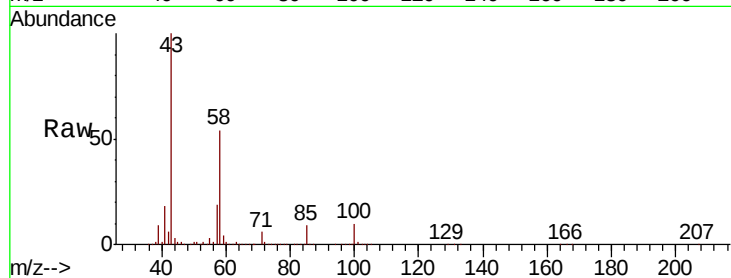




#48
2-Hexanone
Concen: 106.522 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU031173.D
Acq: 13 Apr 2019 21:40

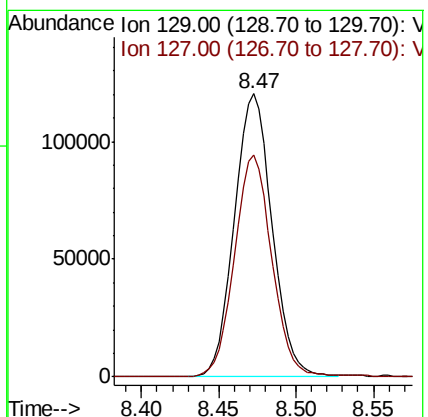
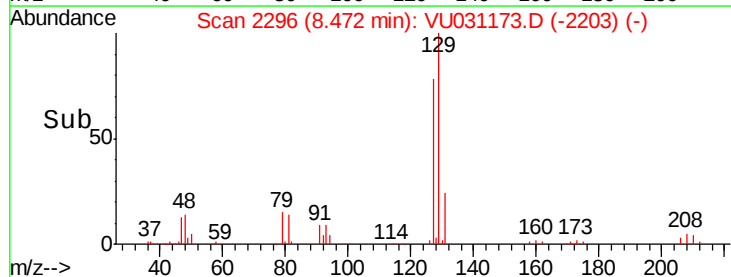
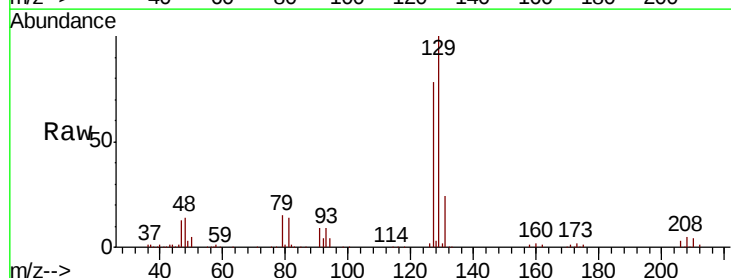
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

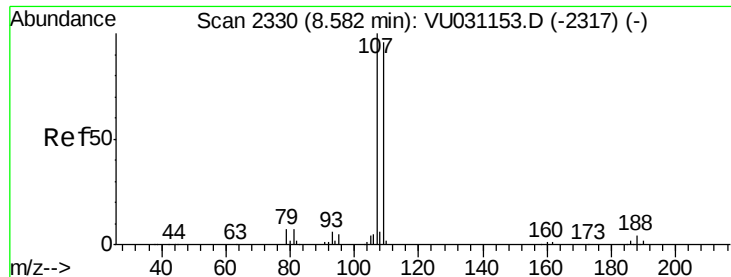
Tot Ion: 43 Resp: 517551
Ion Ratio Lower Upper
43 100
58 54.4 41.9 62.9
57 19.1 14.3 21.5
100 10.4 7.1 10.7



#49
Dibromochloromethane
Concen: 58.598 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031173.D
Acq: 13 Apr 2019 21:40

Tgt Ion: 129 Resp: 204218
Ion Ratio Lower Upper
129 100
127 78.4 54.5 101.3





#50

1,2-Dibromoethane

Concen: 55.566 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

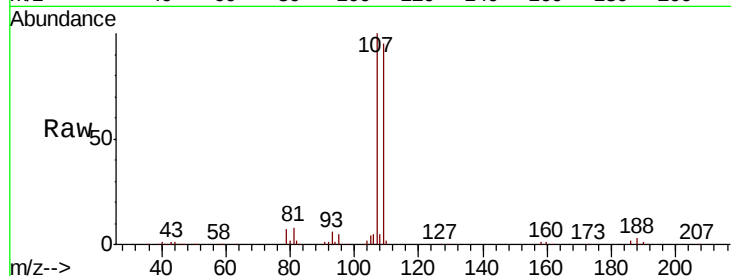
Tot Ion:107 Resp: 197480

Ion Ratio Lower Upper

107 100

109 94.7 66.4 123.2

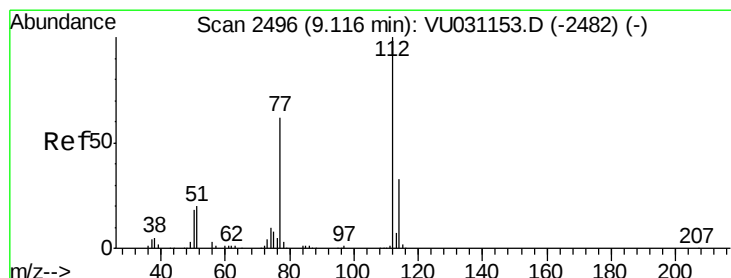
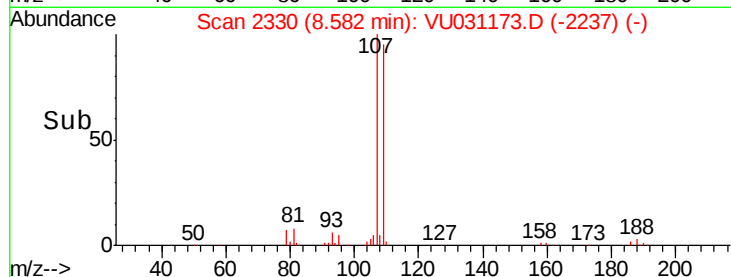
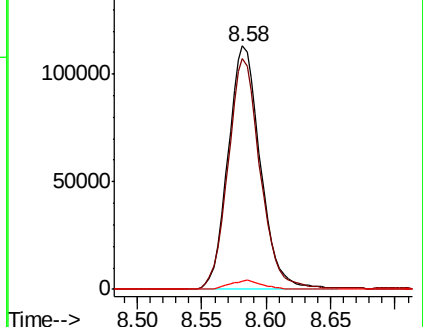
188 3.5 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 53.581 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

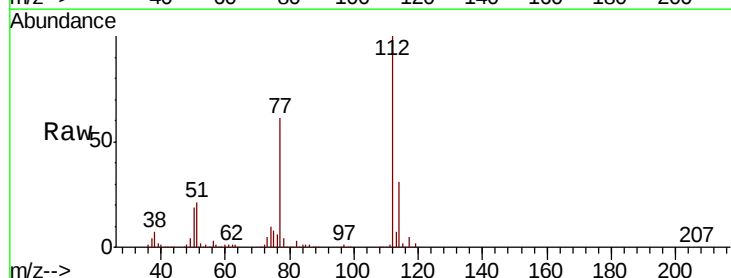
Tgt Ion:112 Resp: 458780

Ion Ratio Lower Upper

112 100

114 30.8 22.2 41.2

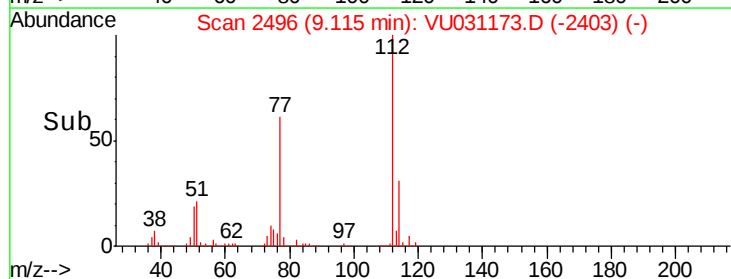
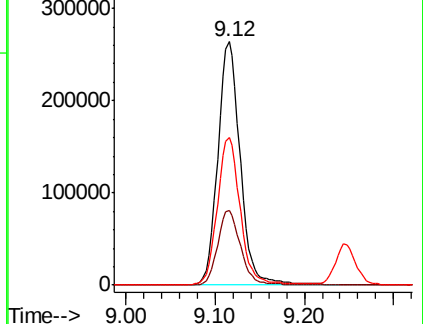
77 60.7 51.7 77.5

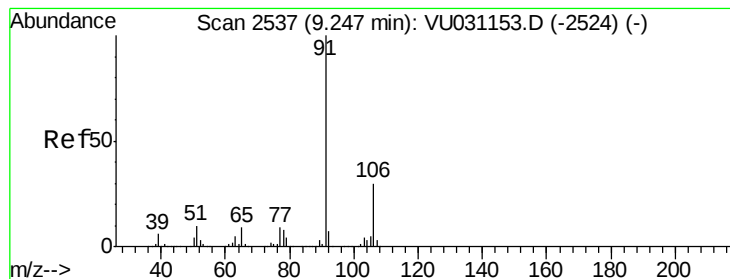


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 52.169 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

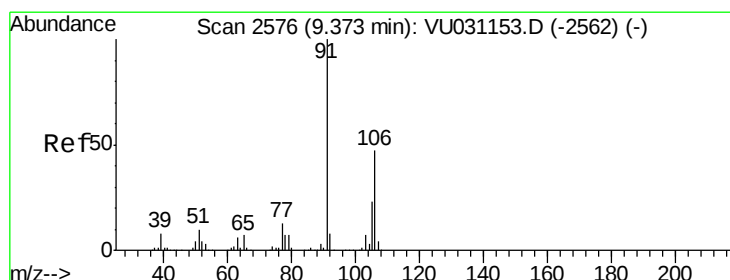
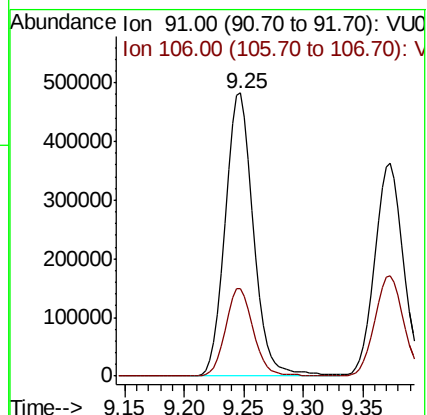
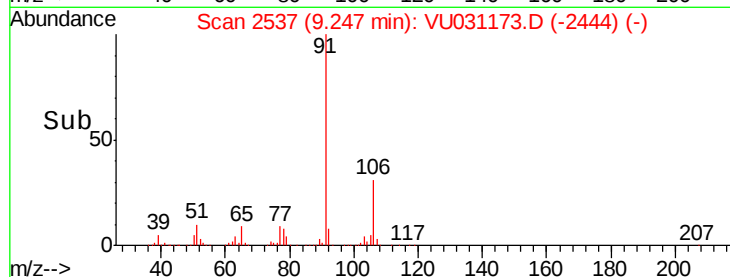
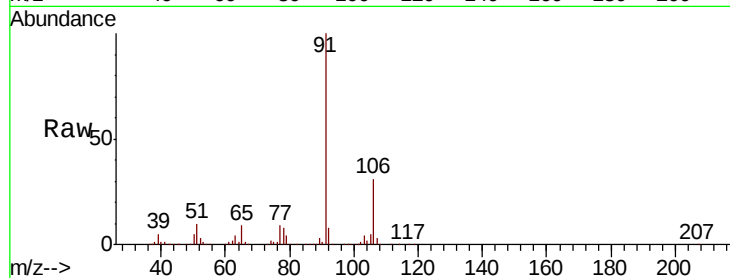
VSTD05036

Tot Ion: 91 Resp: 793866

Ion Ratio Lower Upper

91 100

106 30.9 20.4 37.8



#53

m,p-Xylene

Concen: 53.998 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031173.D

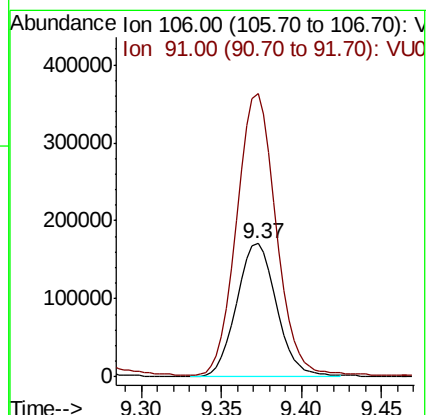
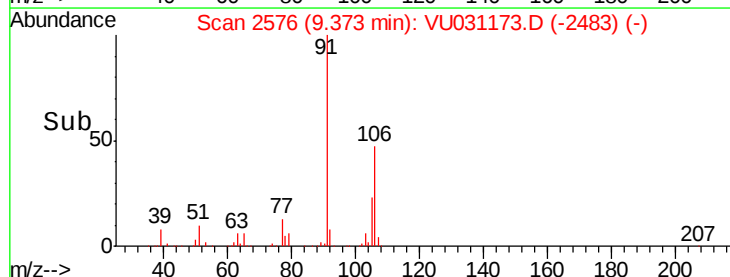
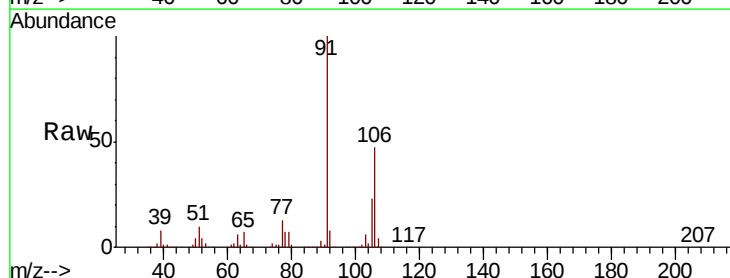
Acq: 13 Apr 2019 21:40

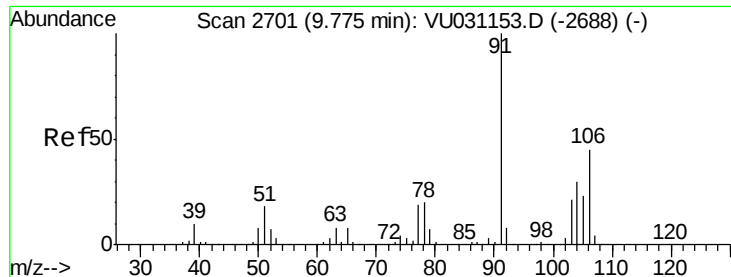
Tgt Ion: 106 Resp: 286582

Ion Ratio Lower Upper

106 100

91 212.5 148.0 274.8





#54

o-xylene

Concen: 53.435 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

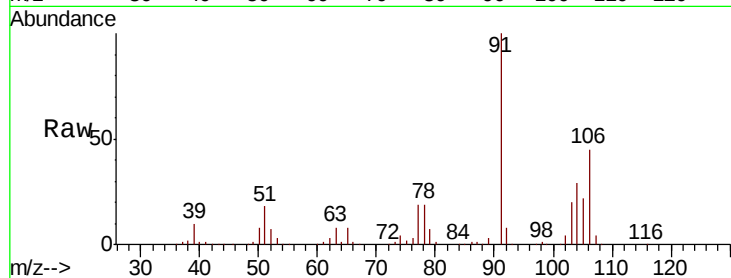
VSTD05036

Tot Ion:106 Resp: 282089

Ion Ratio Lower Upper

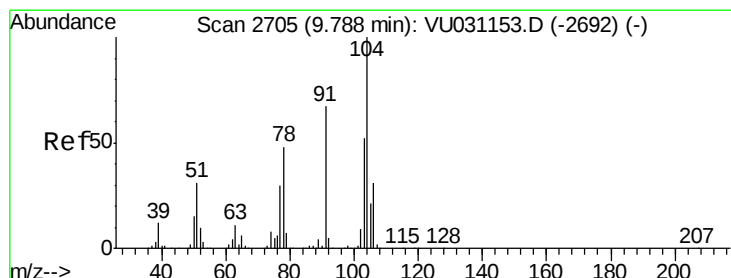
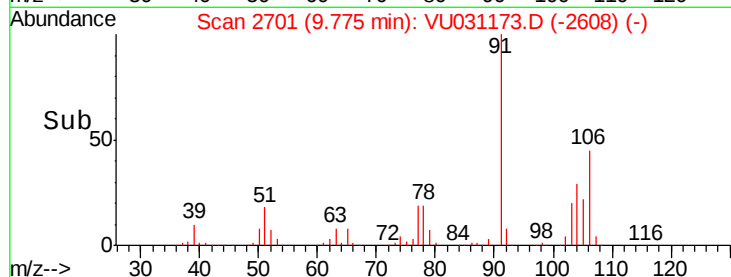
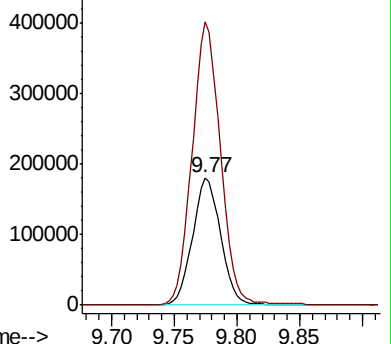
106 100

91 222.5 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.757 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031173.D

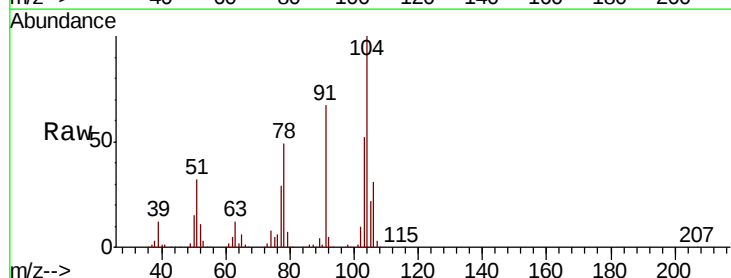
Acq: 13 Apr 2019 21:40

Tgt Ion:104 Resp: 495826

Ion Ratio Lower Upper

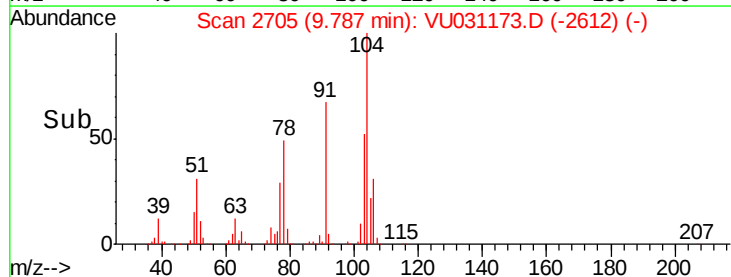
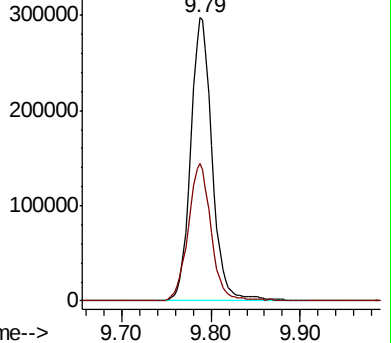
104 100

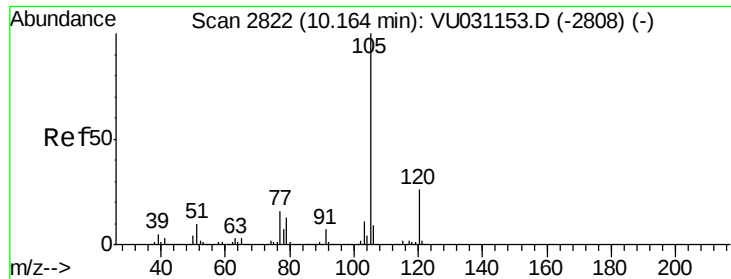
78 48.7 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 56.011 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

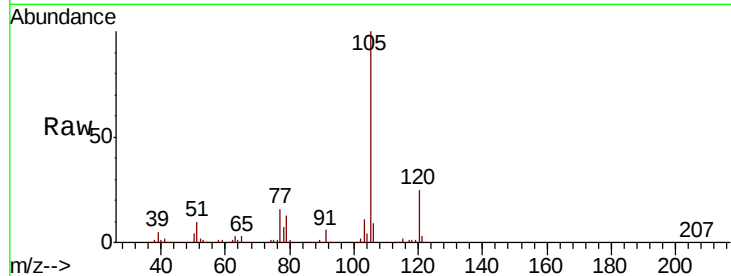
Tot Ion:105 Resp: 778502

Ion Ratio Lower Upper

105 100

120 25.3 20.4 30.6

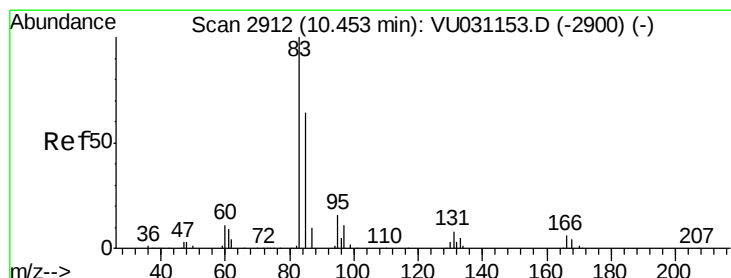
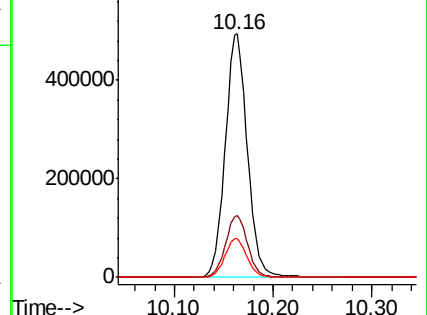
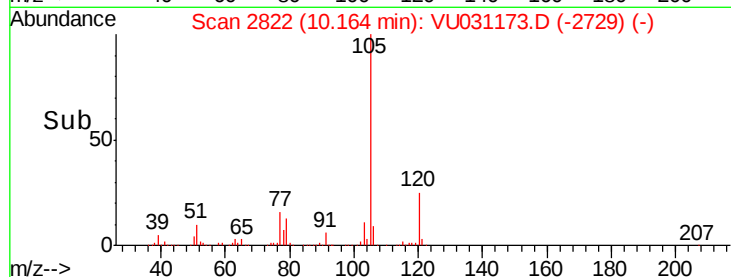
77 15.9 13.4 20.2



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: 55.431 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

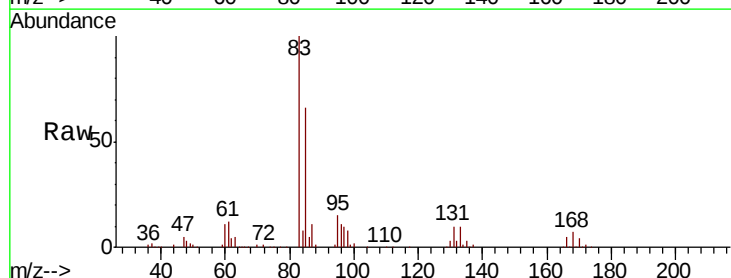
Tgt Ion: 83 Resp: 329301

Ion Ratio Lower Upper

83 100

85 65.6 45.3 84.1

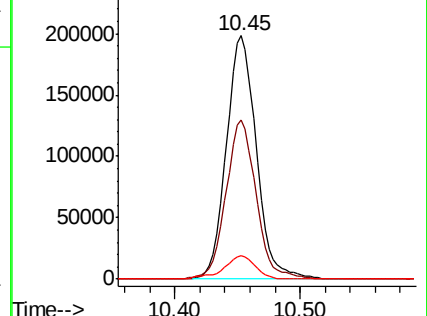
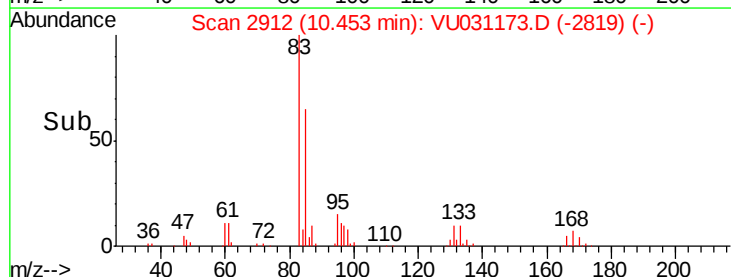
131 9.5 6.7 10.1

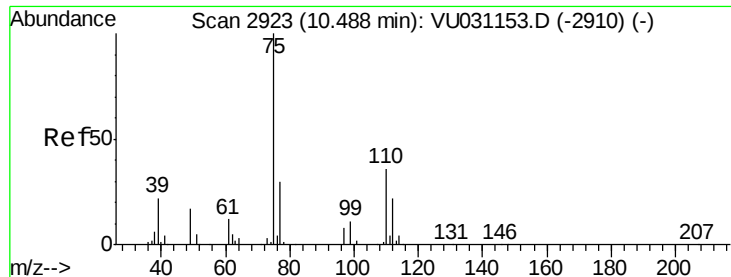


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 55.385 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

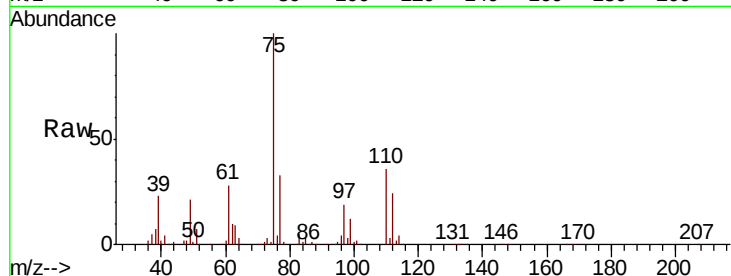
VSTD05036

Tot Ion: 75 Resp: 256883

Ion Ratio Lower Upper

75 100

77 32.7 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU031153.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031153.D (-2910) (-)

10.49

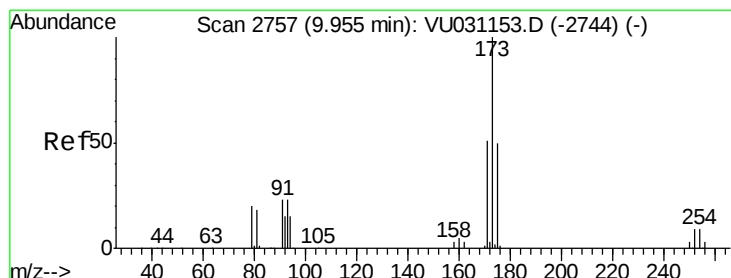
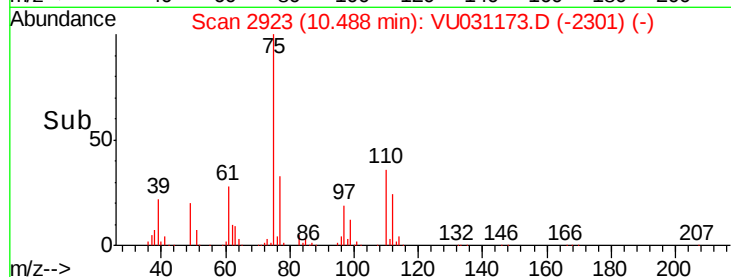
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 52.057 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

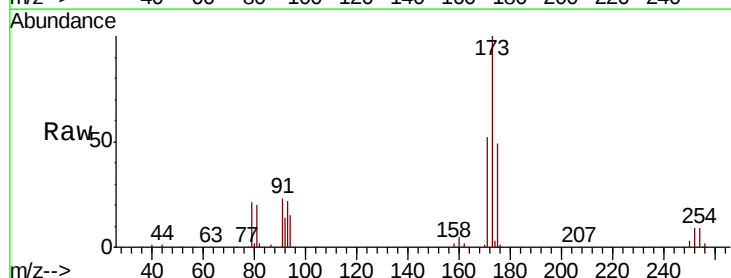
Tgt Ion: 173 Resp: 145927

Ion Ratio Lower Upper

173 100

175 48.4 39.1 58.7

254 8.7 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU031153.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU031153.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU031153.D (-2744) (-)

9.95

100000

80000

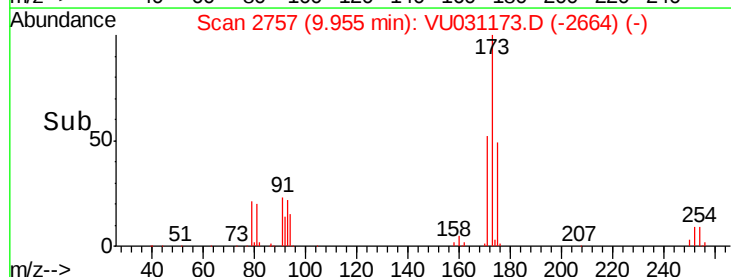
60000

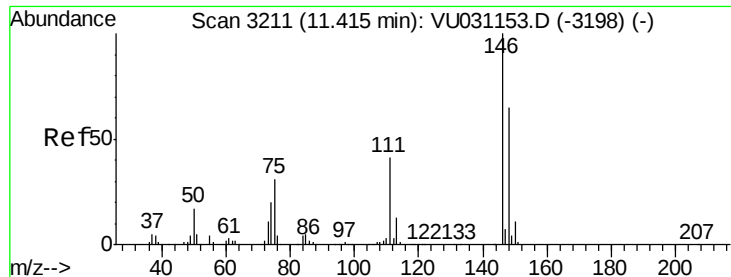
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 50.709 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

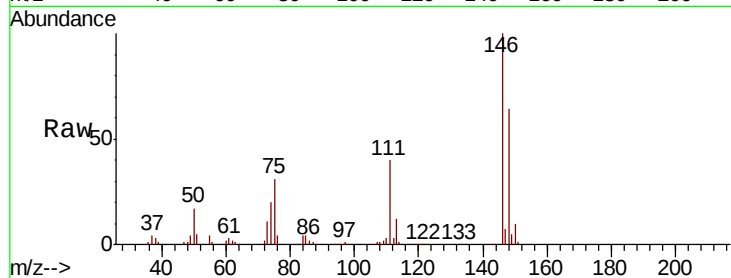
Tot Ion:146 Resp: 340078

Ion Ratio Lower Upper

146 100

111 40.1 30.9 57.5

148 63.9 44.7 82.9

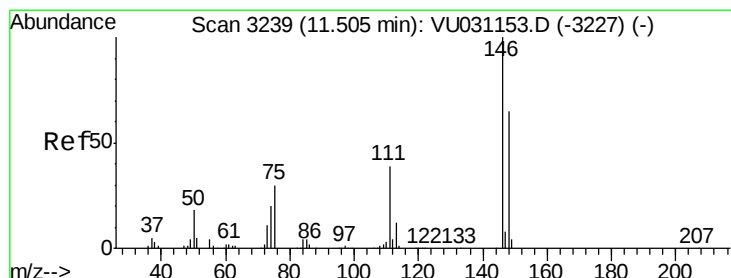
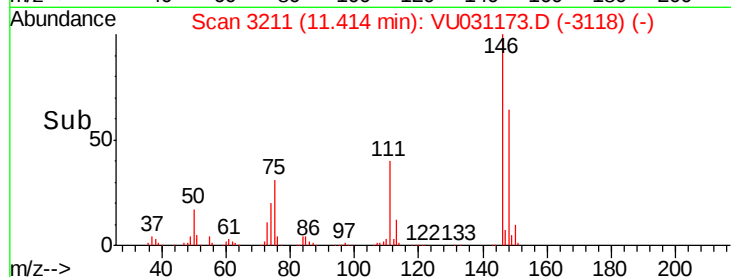
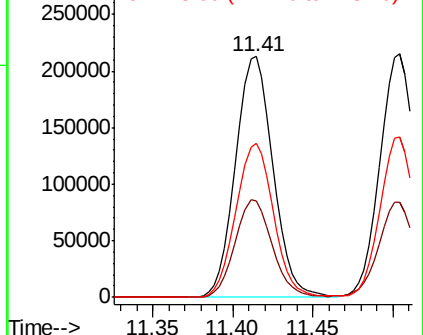


Abundance

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: 50.415 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

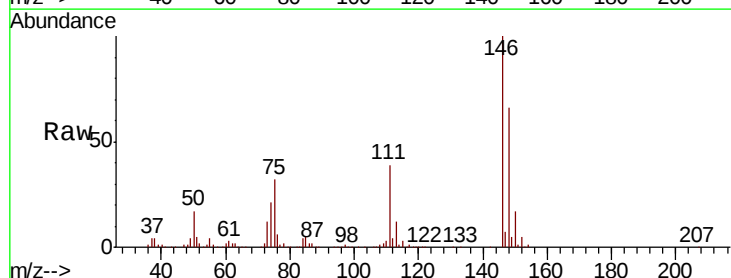
Tgt Ion:146 Resp: 343919

Ion Ratio Lower Upper

146 100

111 38.8 27.7 51.5

148 65.7 45.4 84.4

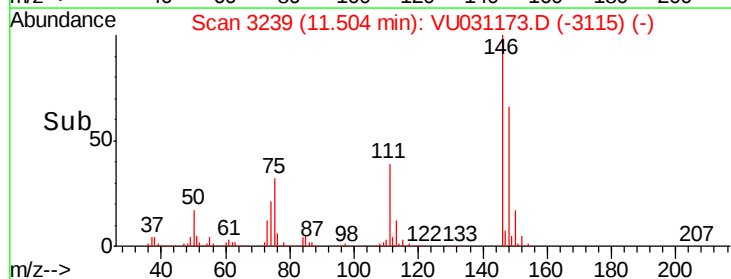
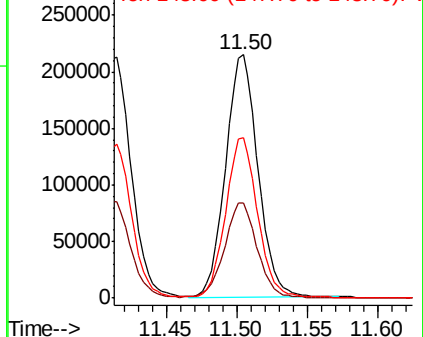


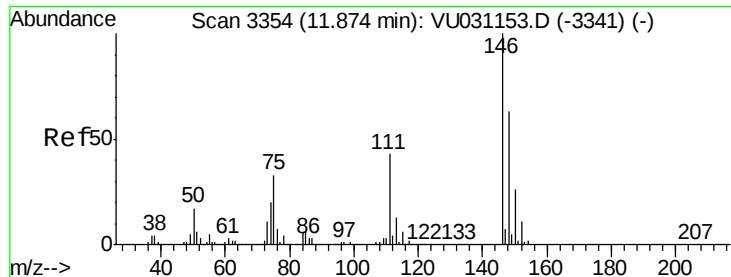
Abundance

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: 54.032 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

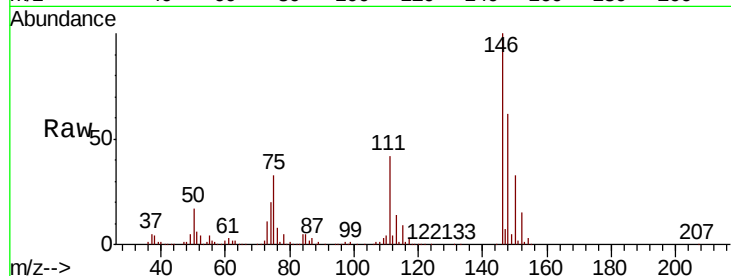
Tot Ion:146 Resp: 363483

Ion Ratio Lower Upper

146 100

111 42.0 34.9 52.3

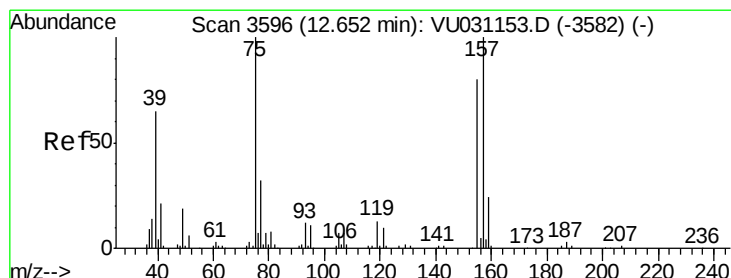
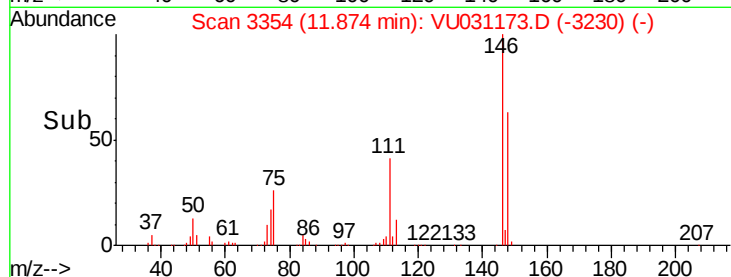
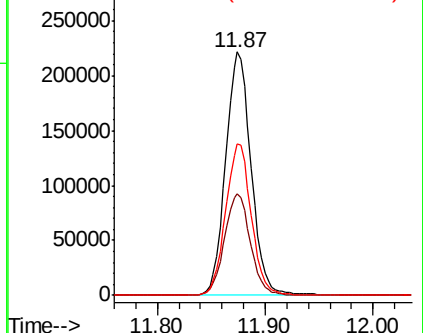
148 62.5 50.4 75.6



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: 52.240 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

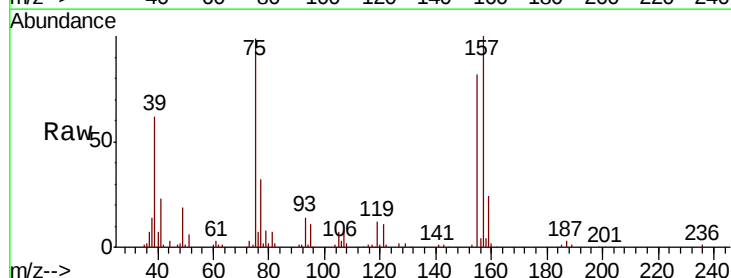
Tgt Ion: 75 Resp: 74709

Ion Ratio Lower Upper

75 100

155 82.9 64.1 96.1

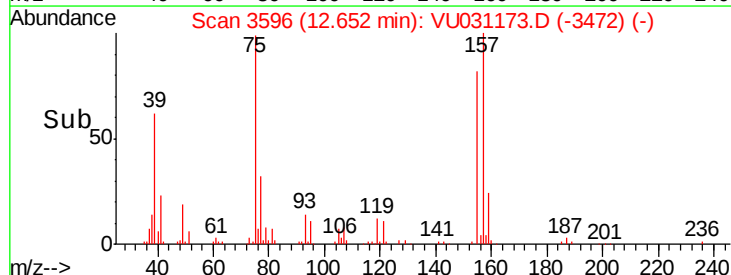
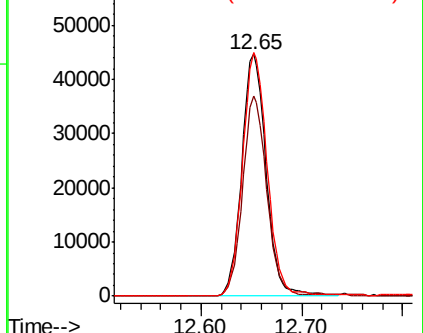
157 100.7 80.6 120.8

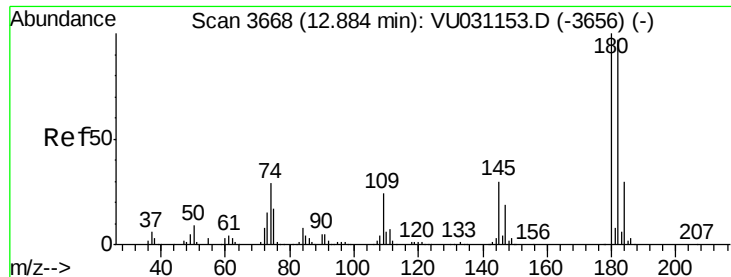


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

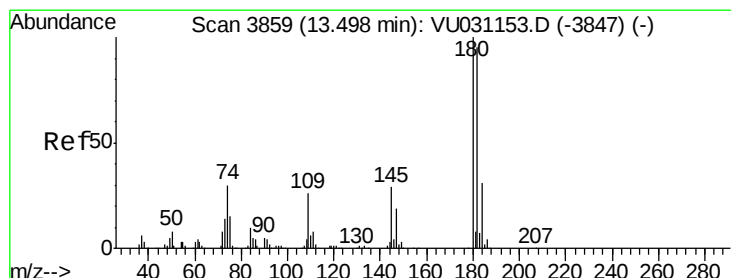
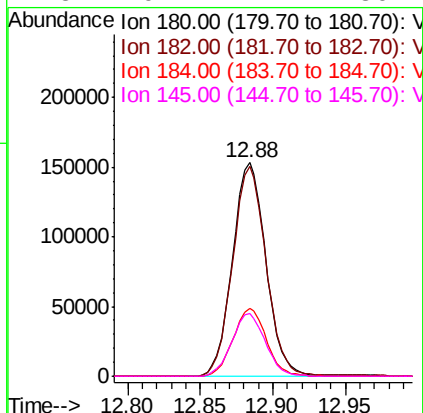
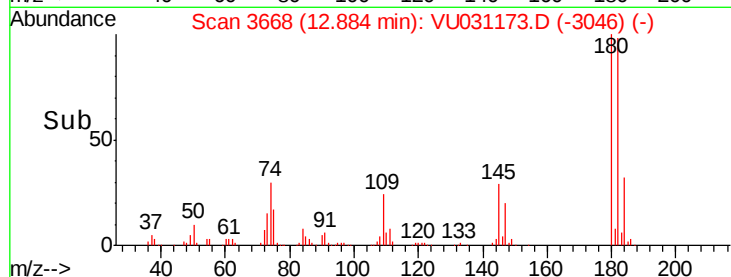
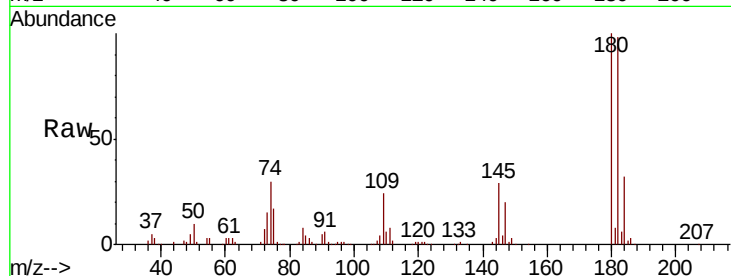




#67
 1,3,5-Trichlorobenzene
 Concen: 50.100 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU031173.D
 Acq: 13 Apr 2019 21:40

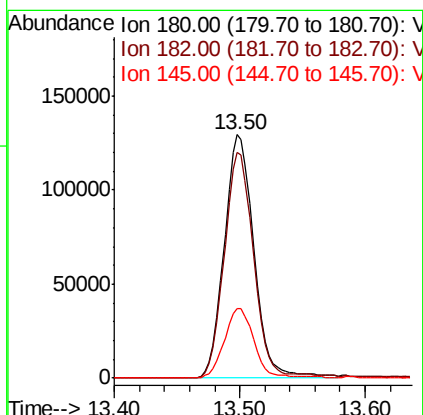
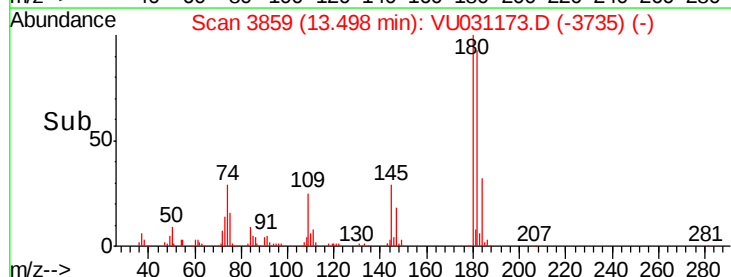
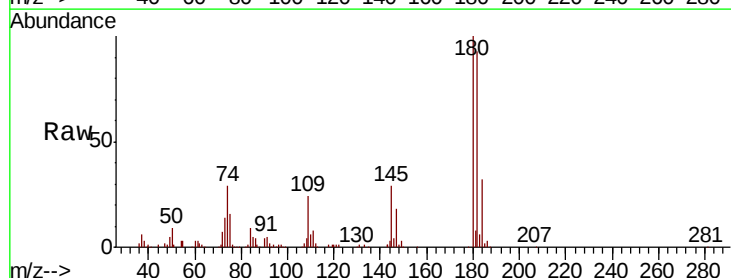
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

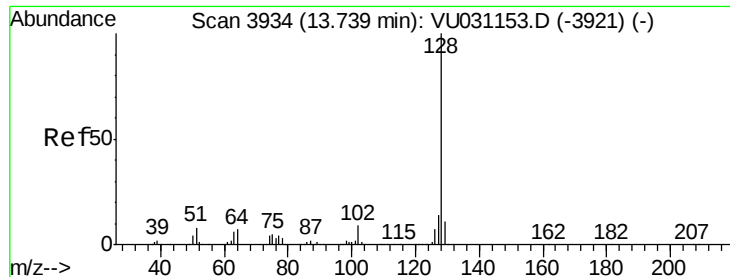
Tot Ion	Ratio	Lower	Upper
180	100		
182	98.4	78.3	117.5
184	31.6	24.7	37.1
145	29.4	24.2	36.4



#68
 1,2,4-trichlorobenzene
 Concen: 51.028 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031173.D
 Acq: 13 Apr 2019 21:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.7	76.7	115.1
145	28.3	24.4	36.6





#69

Naphthalene

Concen: 51.729 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

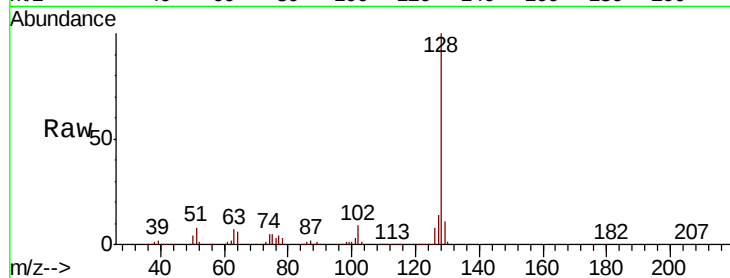
Tot Ion:128 Resp: 698817

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

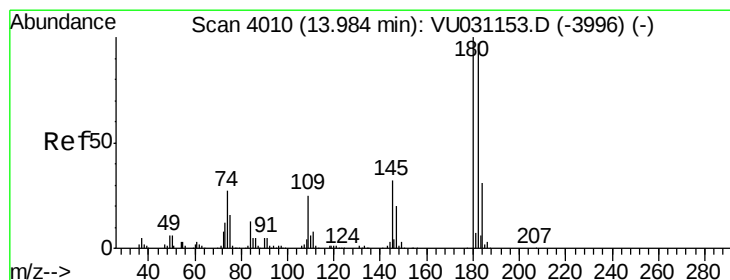
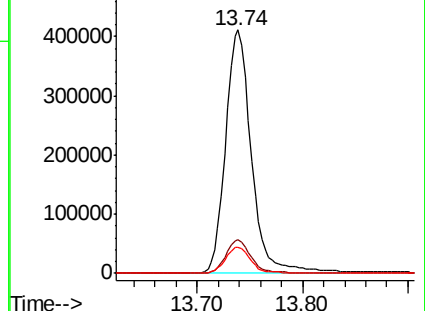
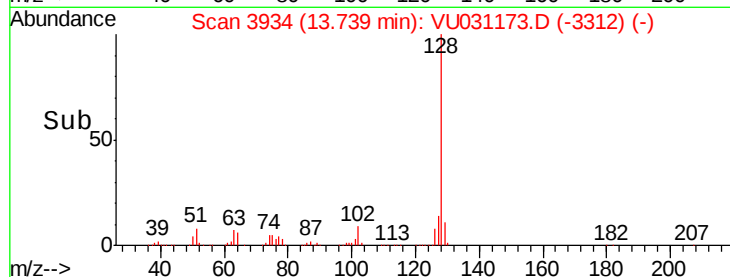
129 10.8 8.6 12.8



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: 54.006 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031173.D

Acq: 13 Apr 2019 21:40

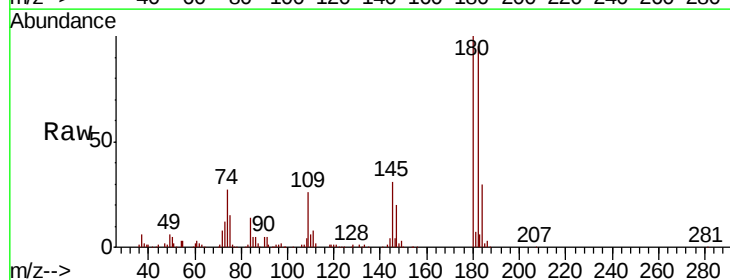
Tgt Ion:180 Resp: 235136

Ion Ratio Lower Upper

180 100

182 94.0 78.1 117.1

145 31.5 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

