

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
 Data File : VU031039.D
 Acq On : 11 Apr 2019 02:51
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Quant Time: Apr 11 05:26:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 11 05:17:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	542620	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	529969	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	259105	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	195217	40.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.60%
7) Chloroethane-d5	1.68	69	166481	45.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.56%
11) 1,1-Dichloroethene-d2	2.27	63	375036	42.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.62%
21) 2-Butanone-d5	4.17	46	383529	99.90	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.90%
24) Chloroform-d	4.64	84	360151	48.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.34%
26) 1,2-Dichloroethane-d4	5.30	65	236183	46.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.56%
32) Benzene-d6	5.33	84	719652	46.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.04%
36) 1,2-Dichloropropane-d6	6.32	67	243112	45.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.70%
41) Toluene-d8	7.56	98	638694	46.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.14%
43) trans-1,3-Dichloropropene-	7.85	79	111275	46.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.04%
47) 2-Hexanone-d5	8.31	63	243370	100.43	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.43%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	355660	49.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.46%
64) 1,2-Dichlorobenzene-d4	11.85	152	244324	47.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	215431	45.198	ug/L 100
3) Chloromethane	1.32	50	259527	42.096	ug/L 99
5) Vinyl chloride	1.40	62	274123	45.933	ug/L 92
6) Bromomethane	1.62	94	113711	36.777	ug/L 100
8) Chloroethane	1.69	64	162381	47.705	ug/L 97
9) Trichlorofluoromethane	1.88	101	340275	48.933	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	174960	45.030	ug/L 98
12) 1,1-Dichloroethene	2.28	96	176686	47.105	ug/L 97
13) Acetone	2.31	43	272071	69.258	ug/L 99
14) Carbon disulfide	2.47	76	522427	44.835	ug/L 98
15) Methyl Acetate	2.61	43	283526	46.549	ug/L 99
16) Methylene chloride	2.70	84	214795	47.140	ug/L 94
17) trans-1,2-Dichloroethene	2.98	96	189237	47.516	ug/L 99
18) Methyl tert-butyl Ether	2.99	73	644736	48.329	ug/L 99
19) 1,1-Dichloroethane	3.44	63	387988	47.207	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	215105	48.916	ug/L 96
22) 2-Butanone	4.25	43	398726	86.568	ug/L 94

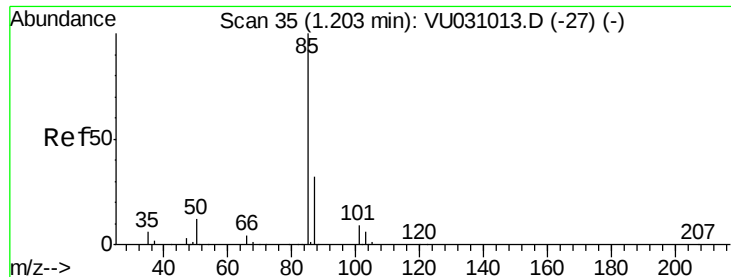
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
 Data File : VU031039.D
 Acq On : 11 Apr 2019 02:51
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Quant Time: Apr 11 05:26:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 11 05:17:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	107155	51.542	ug/L	91
25) Chloroform	4.67	83	397159	48.079	ug/L	99
27) 1,2-Dichloroethane	5.40	62	306953	48.686	ug/L	99
29) Cyclohexane	4.99	56	345002	45.674	ug/L	96
30) 1,1,1-Trichloroethane	4.91	97	315558	48.858	ug/L	99
31) Carbon tetrachloride	5.13	117	274028	49.235	ug/L	99
33) Benzene	5.38	78	838857	48.369	ug/L	100
34) Trichloroethene	6.18	95	211657	49.759	ug/L	98
35) Methylcyclohexane	6.41	83	307746	46.880	ug/L	97
37) 1,2-Dichloropropane	6.43	63	232727	47.391	ug/L	100
38) Bromodichloromethane	6.75	83	289616	48.886	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	336536	48.147	ug/L	98
40) 4-Methyl-2-pentanone	7.45	43	748307	94.758	ug/L	98
42) Toluene	7.63	91	880659	49.746	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	293964	47.722	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	206408	49.559	ug/L	97
46) Tetrachloroethene	8.22	164	155468	50.272	ug/L	98
48) 2-Hexanone	8.36	43	595969	96.730	ug/L	99
49) Dibromochloromethane	8.47	129	223865	50.656	ug/L	100
50) 1,2-Dibromoethane	8.58	107	221825	49.220	ug/L	99
51) Chlorobenzene	9.12	112	543087	50.018	ug/L	100
52) Ethylbenzene	9.25	91	956226	49.554	ug/L	99
53) m,p-Xylene	9.37	106	341985	50.814	ug/L	99
54) o-xylene	9.77	106	348668	52.084	ug/L	100
55) Styrene	9.79	104	602253	52.450	ug/L	100
56) Isopropylbenzene	10.16	105	913312	51.819	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	366425	48.640	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	286701	48.746	ug/L	99
61) Bromoform	9.95	173	162340	47.428	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	403097	49.224	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	404636	48.577	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	410635	49.990	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	84114	48.169	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	292587	48.890	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	256188	50.348	ug/L	98
69) Naphthalene	13.74	128	844660	51.206	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	268237	50.455	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 45.198 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

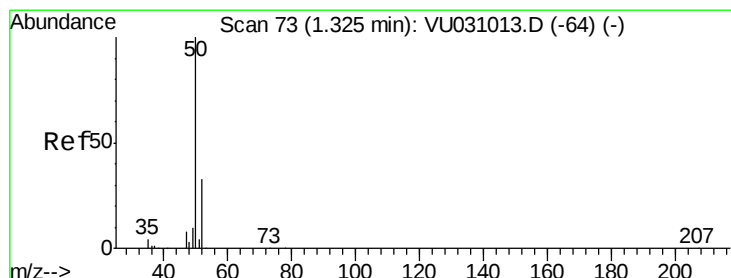
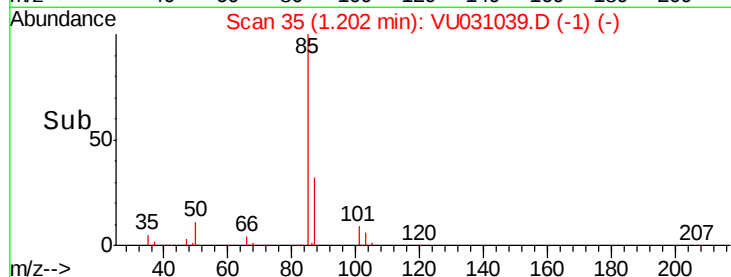
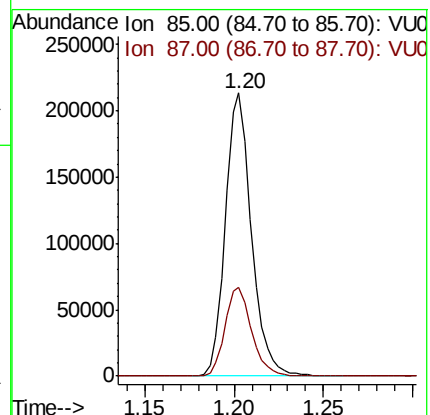
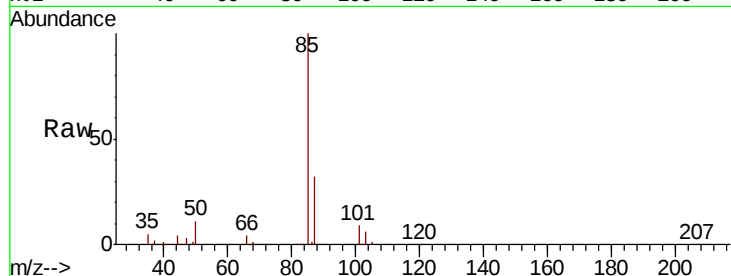
VSTD05059

Tot Ion: 85 Resp: 215431

Ion Ratio Lower Upper

85 100

87 32.3 25.7 38.5



#3

Chloromethane

Concen: 42.096 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU031039.D

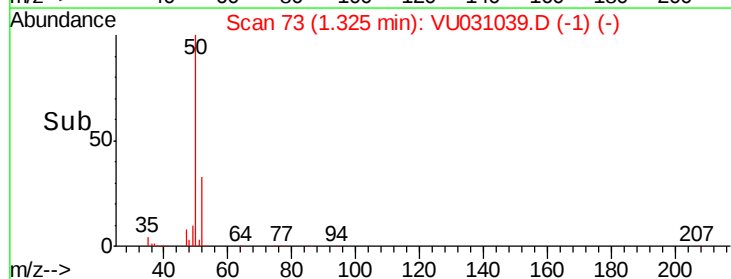
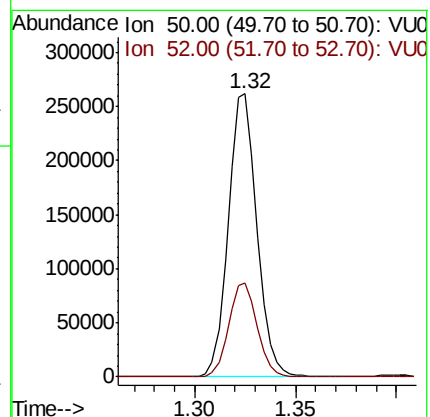
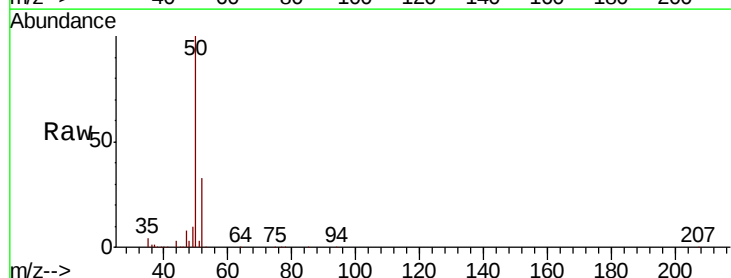
Acq: 11 Apr 2019 02:51

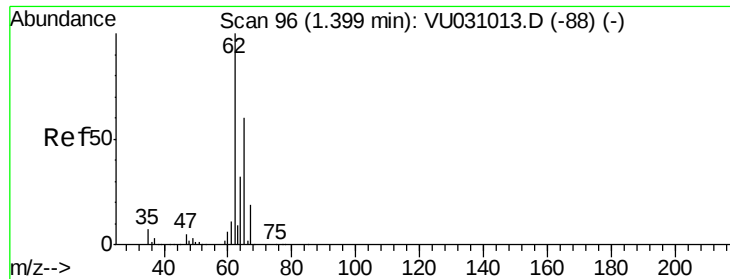
Tgt Ion: 50 Resp: 259527

Ion Ratio Lower Upper

50 100

52 33.2 22.7 42.1





#5

Vinyl chloride

Concen: 45.933 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

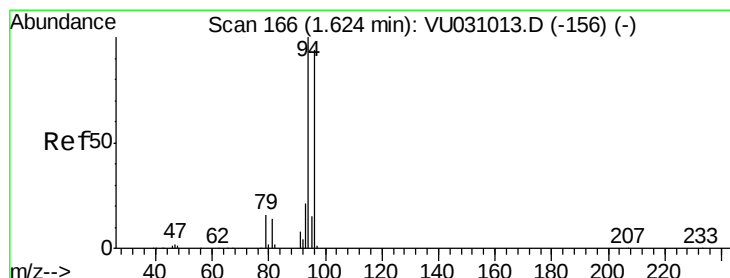
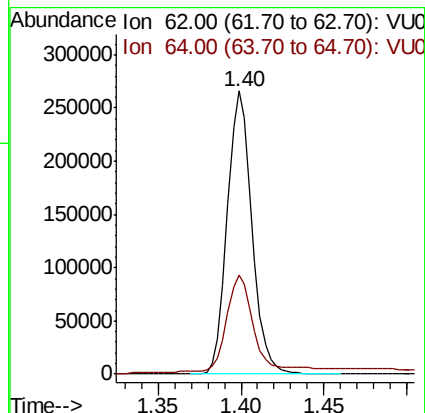
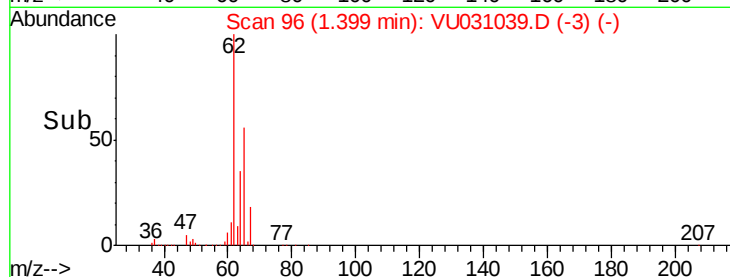
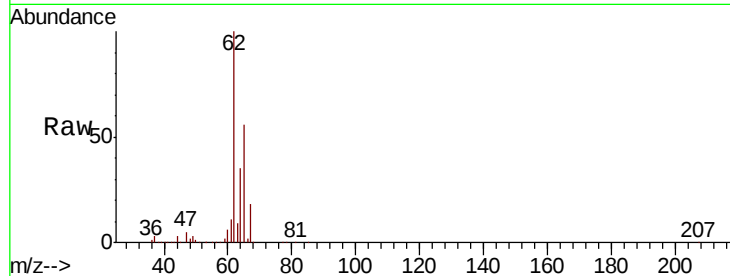
VSTD05059

Tot Ion: 62 Resp: 274123

Ion Ratio Lower Upper

62 100

64 35.0 21.5 39.9



#6

Bromomethane

Concen: 36.777 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU031039.D

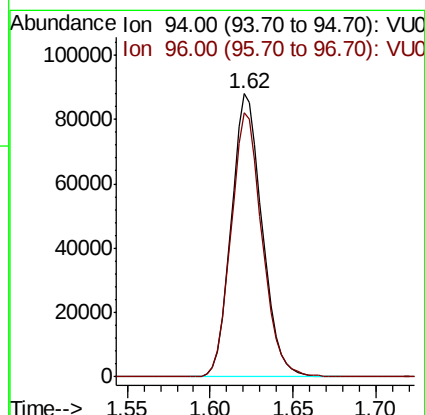
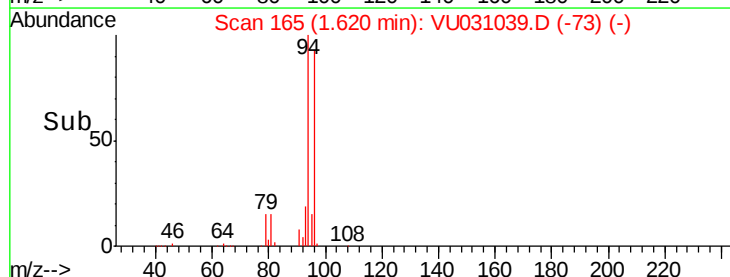
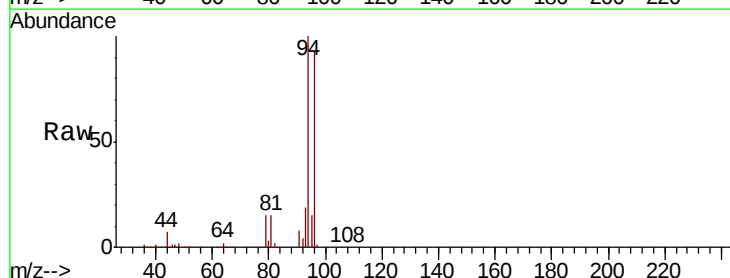
Acq: 11 Apr 2019 02:51

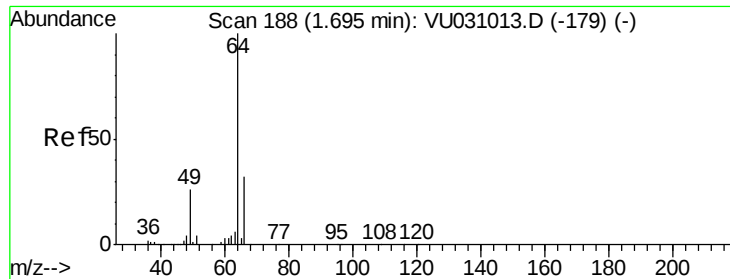
Tgt Ion: 94 Resp: 113711

Ion Ratio Lower Upper

94 100

96 93.3 65.5 121.7





#8

Chloroethane

Concen: 47.705 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

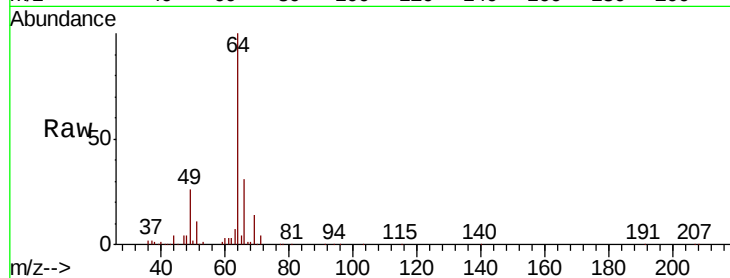
VSTD05059

Tot Ion: 64 Resp: 162381

Ion Ratio Lower Upper

64 100

66 30.5 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU031039.D (-179) (-)

Ion 66.00 (65.70 to 66.70): VU031039.D (-179) (-)

1.69

150000

100000

50000

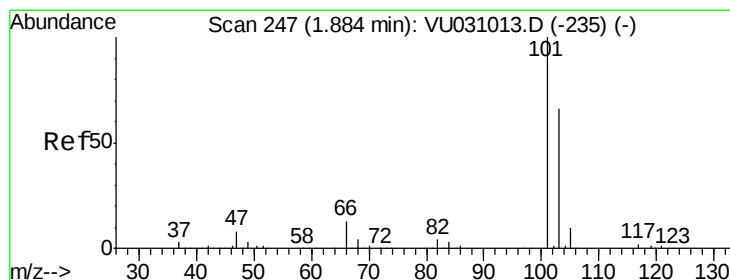
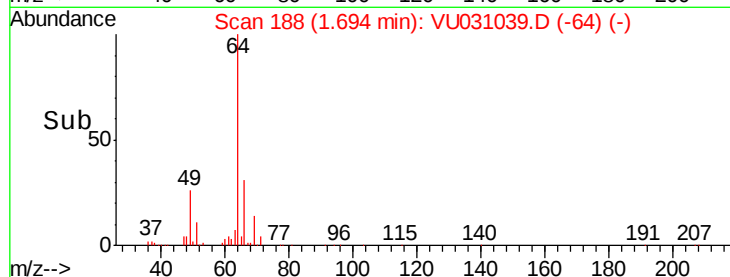
0

Time-->

1.65

1.70

1.75



#9

Trichlorofluoromethane

Concen: 48.933 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031039.D

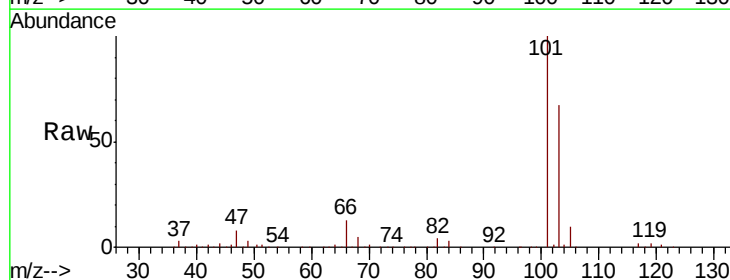
Acq: 11 Apr 2019 02:51

Tgt Ion:101 Resp: 340275

Ion Ratio Lower Upper

101 100

103 65.2 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU031039.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU031039.D (-235) (-)

1.88

250000

200000

150000

100000

50000

0

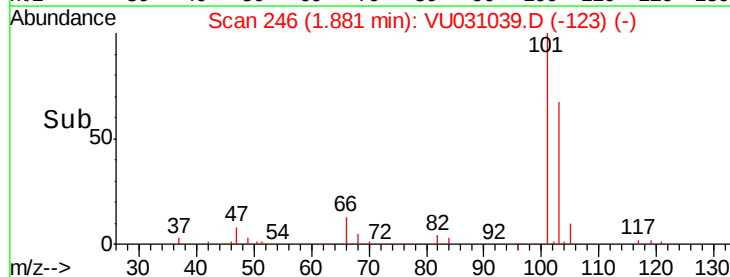
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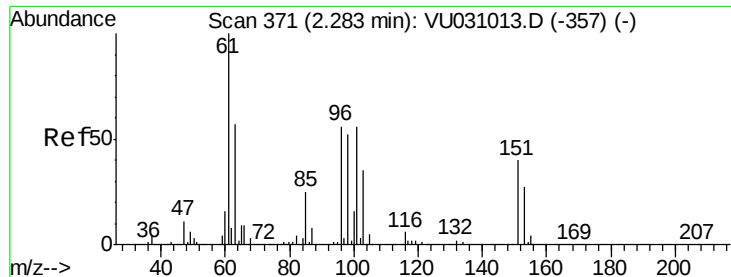
1.80

1.85

1.90

1.95





#10

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

Concen: 45.030 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

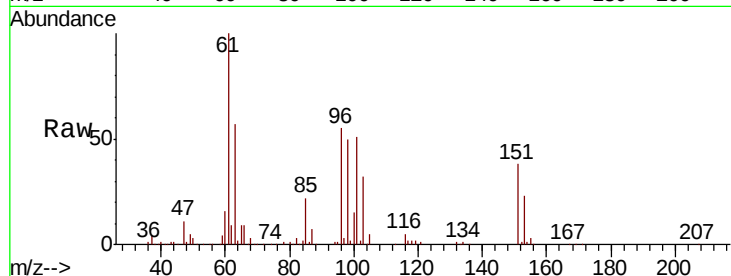
Tot Ion:101 Resp: 174960

Ion Ratio Lower Upper

101 100

85 43.8 36.8 55.2

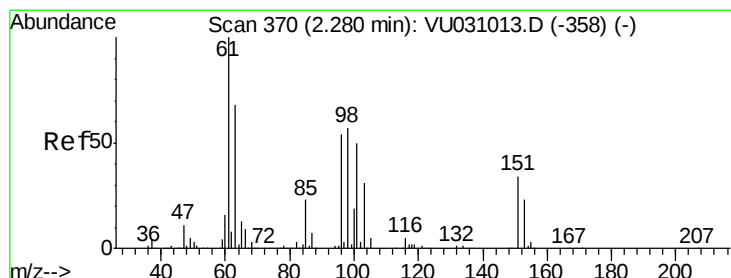
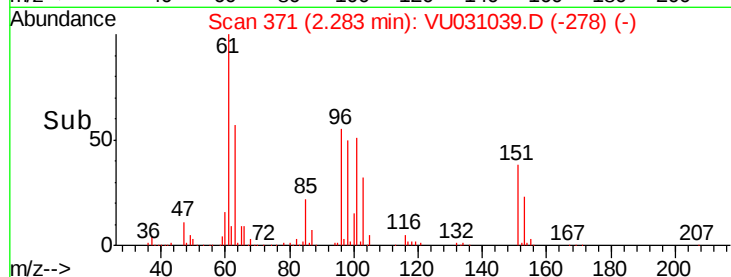
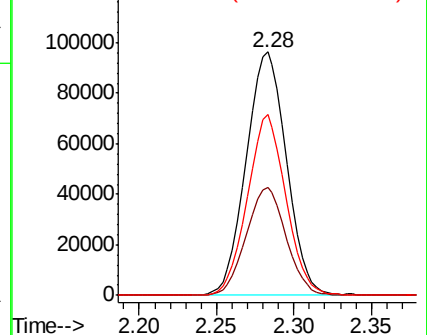
151 71.1 57.4 86.0



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: 47.105 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

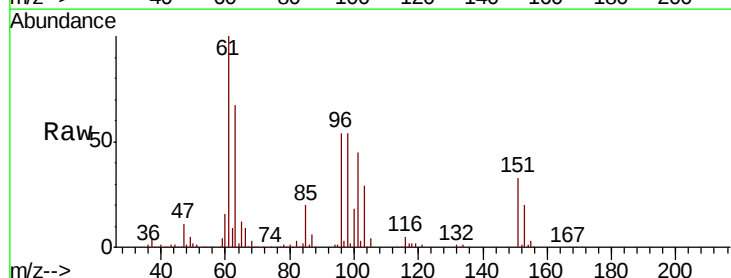
Tgt Ion: 96 Resp: 176686

Ion Ratio Lower Upper

96 100

61 186.3 132.0 245.2

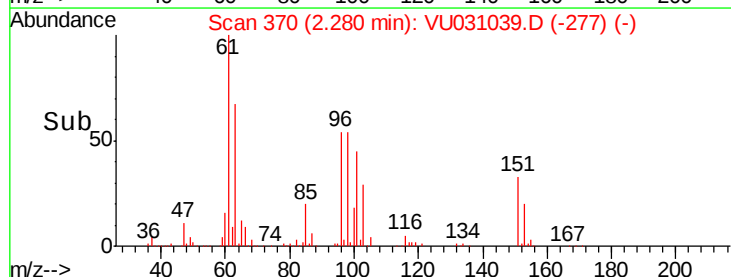
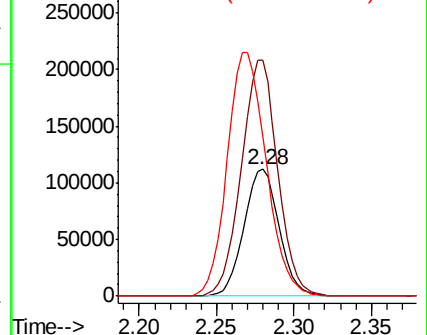
63 125.1 90.9 168.9

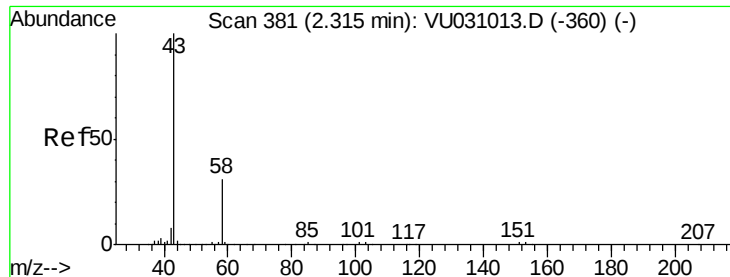


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

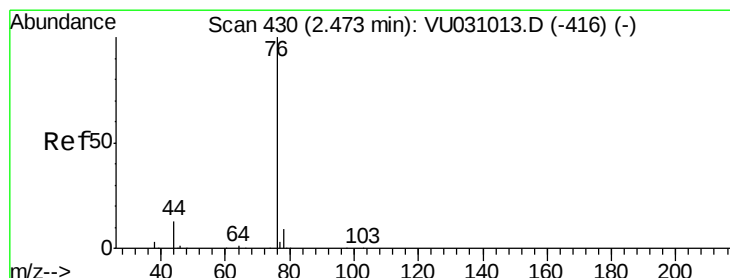
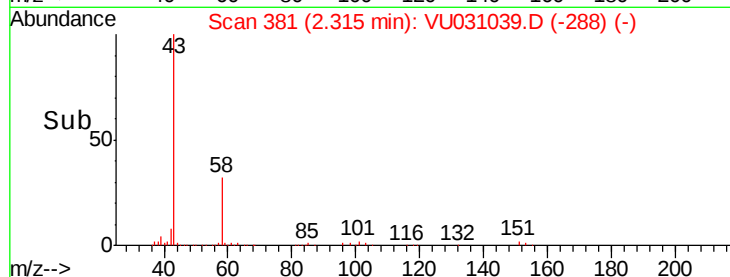
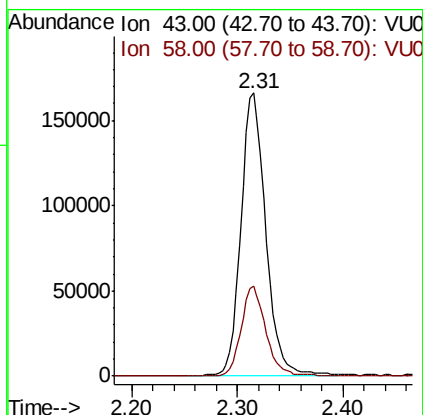
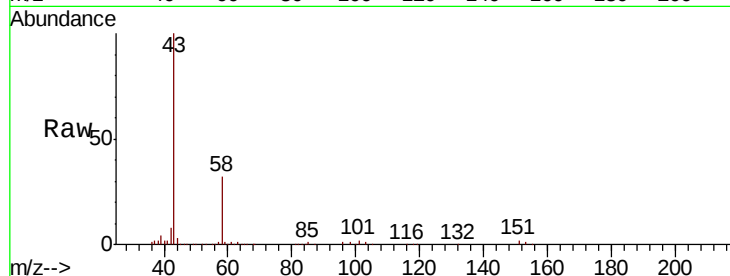




#13
Acetone
Concen: 69.258 ug/L
RT: 2.31 min Scan# 381
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

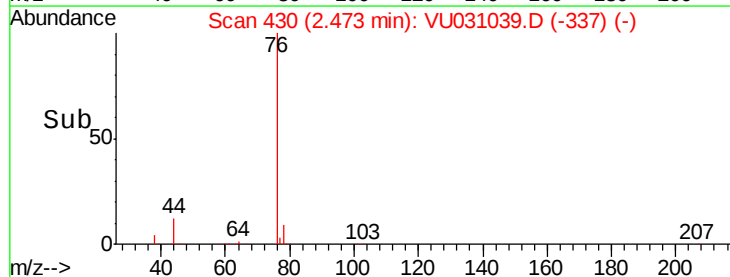
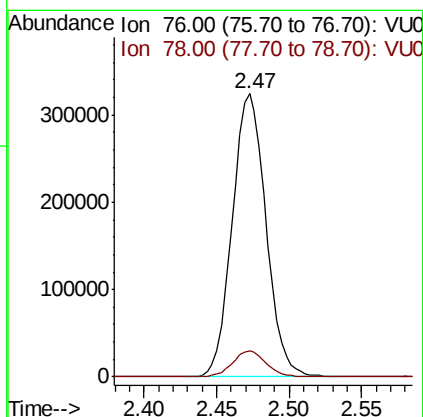
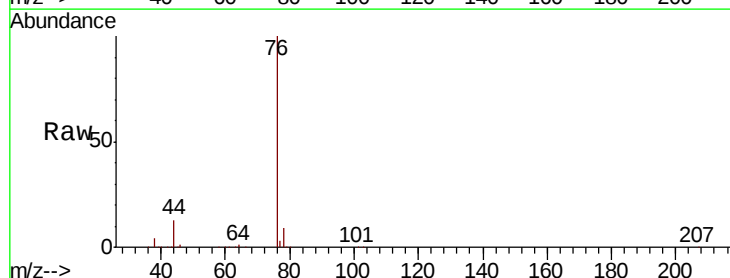
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

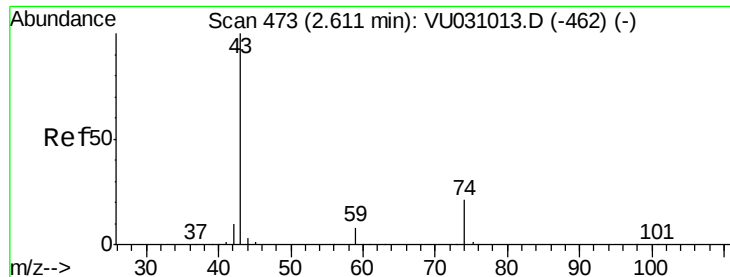
Tot Ion: 43 Resp: 272071
Ion Ratio Lower Upper
43 100
58 31.3 0.0 64.0



#14
Carbon disulfide
Concen: 44.835 ug/L
RT: 2.47 min Scan# 430
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

Tgt Ion: 76 Resp: 522427
Ion Ratio Lower Upper
76 100
78 9.4 7.0 10.4

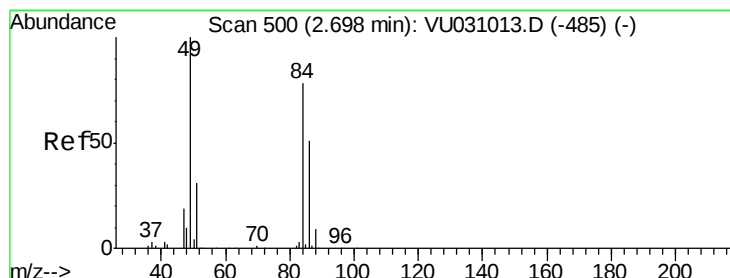
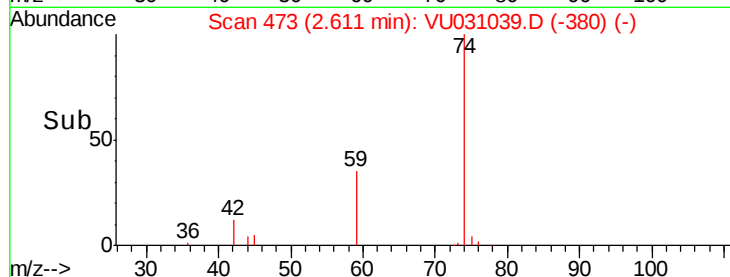
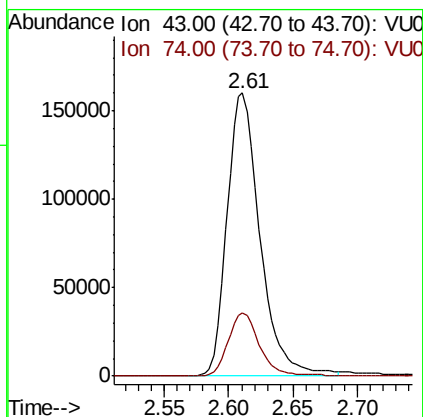
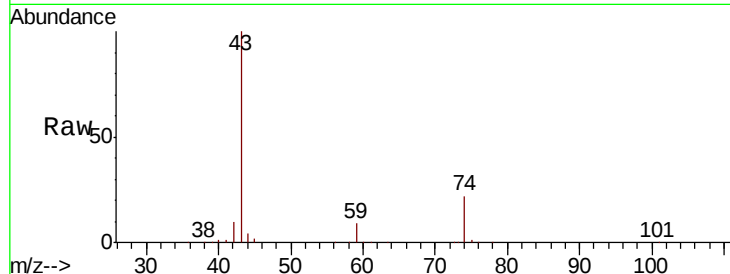




#15
Methyl Acetate
Concen: 46.549 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

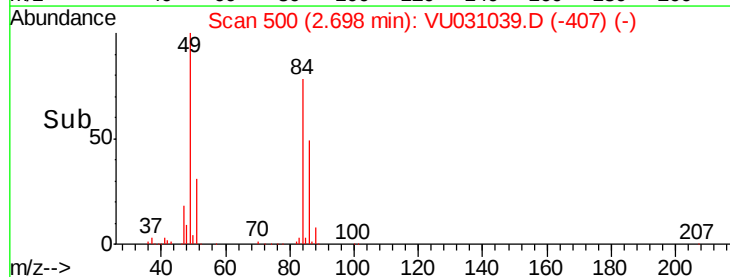
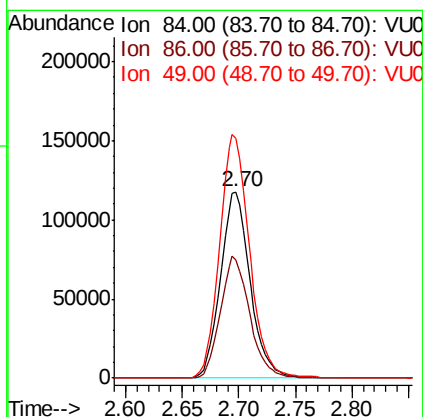
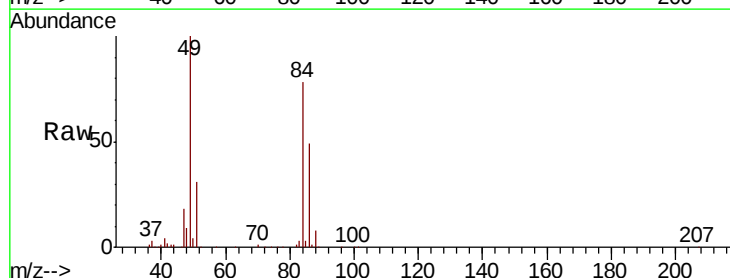
Instrument :
MSVOA_U
ClientSampled :
VSTD05059

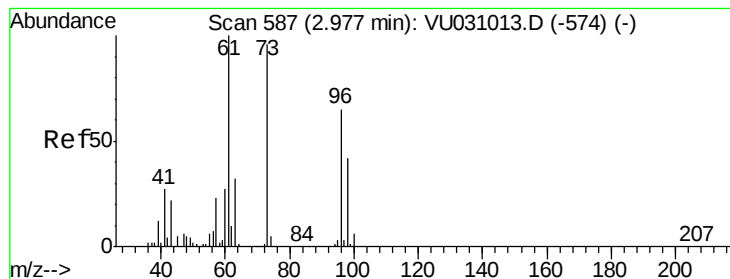
Tot Ion: 43 Resp: 283526
Ion Ratio Lower Upper
43 100
74 21.0 17.1 25.7



#16
Methylene chloride
Concen: 47.140 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

Tgt Ion: 84 Resp: 214795
Ion Ratio Lower Upper
84 100
86 63.3 45.1 83.7
49 128.4 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 47.516 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

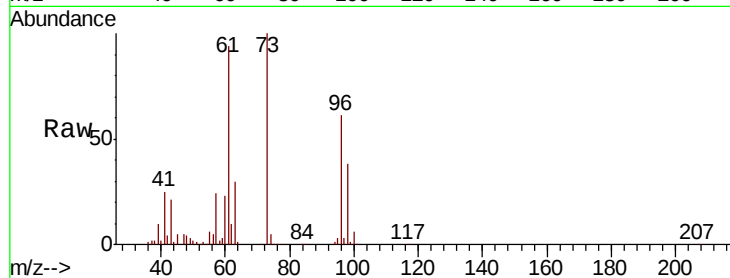
Tot Ion: 96 Resp: 189237

Ion Ratio Lower Upper

96 100

61 154.7 109.5 203.3

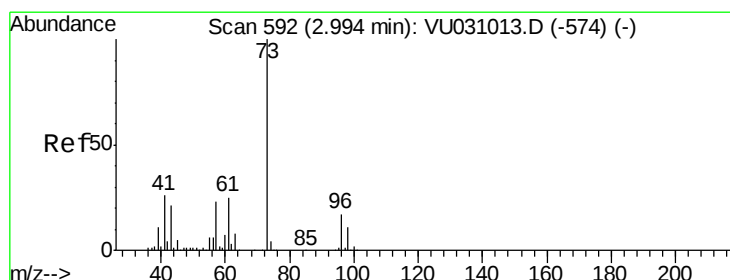
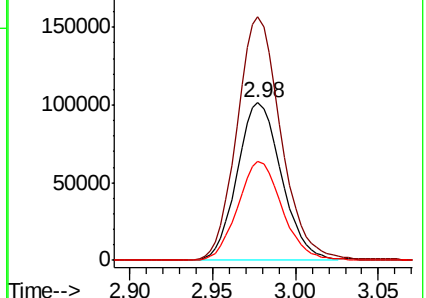
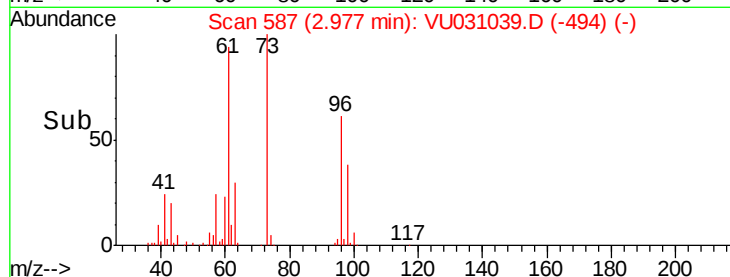
98 63.0 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031039.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU031039.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU031039.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 48.329 ug/L

RT: 2.99 min Scan# 591

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

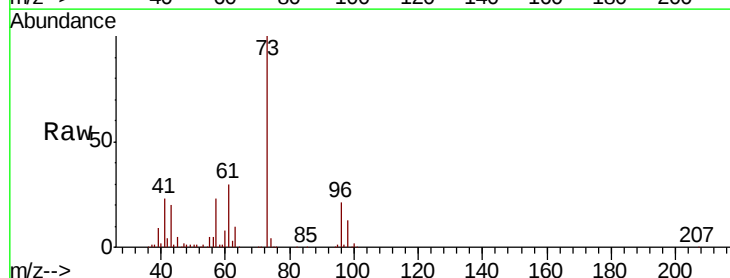
Tgt Ion: 73 Resp: 644736

Ion Ratio Lower Upper

73 100

43 20.4 16.4 24.6

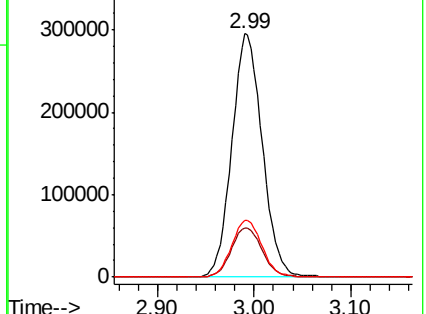
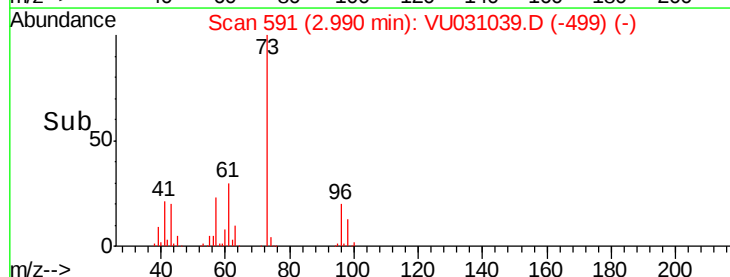
57 23.4 19.0 28.4

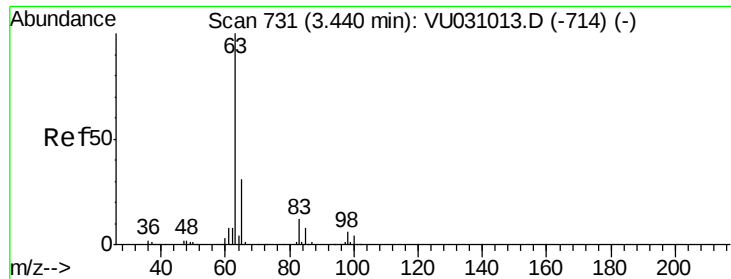


Abundance Ion 73.00 (72.70 to 73.70): VU031039.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031039.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031039.D (-499) (-)

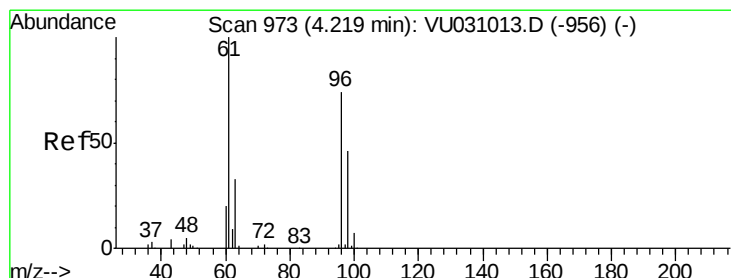
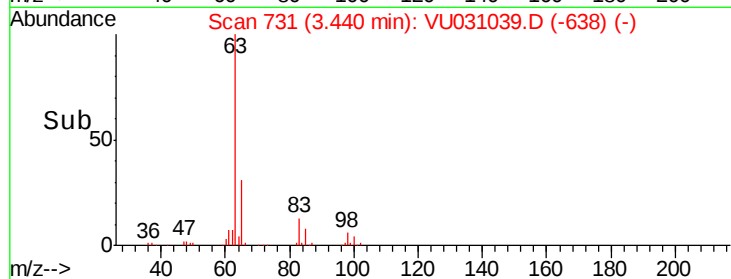
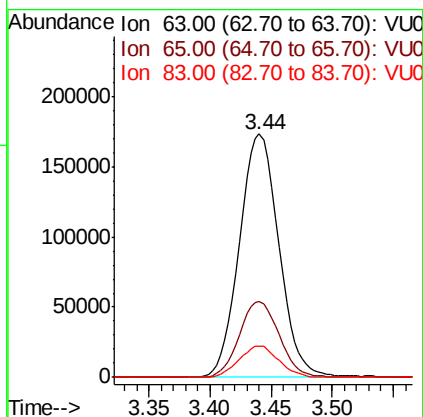
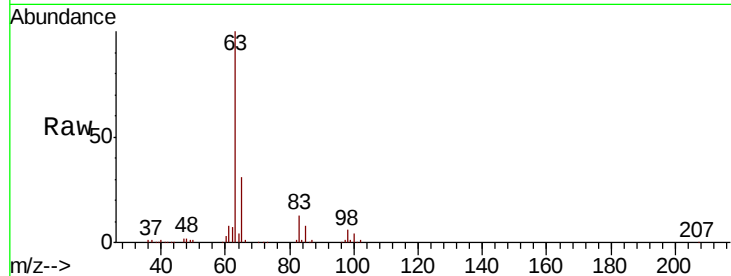




#19
 1,1-Dichloroethane
 Concen: 47.207 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

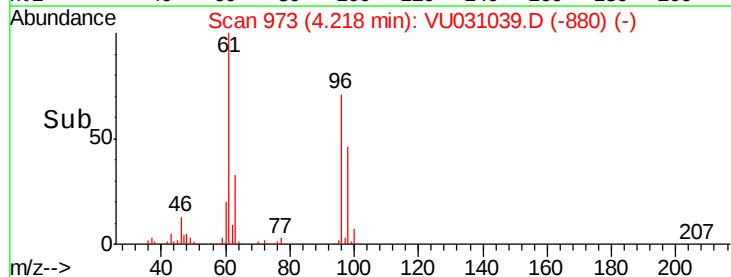
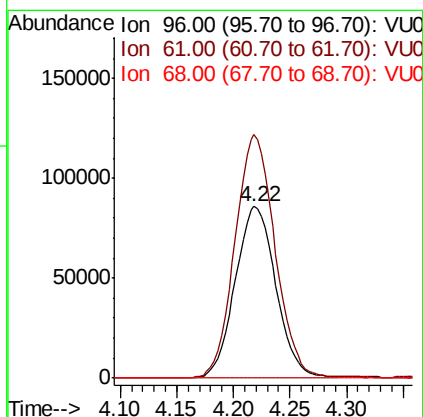
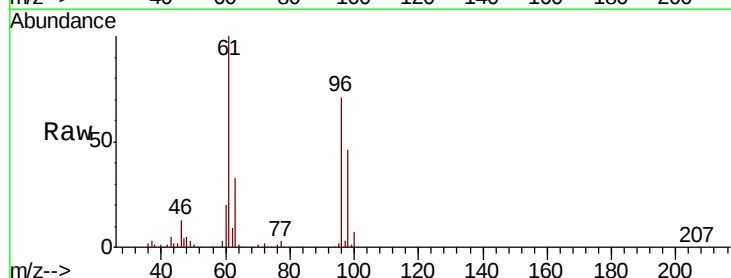
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

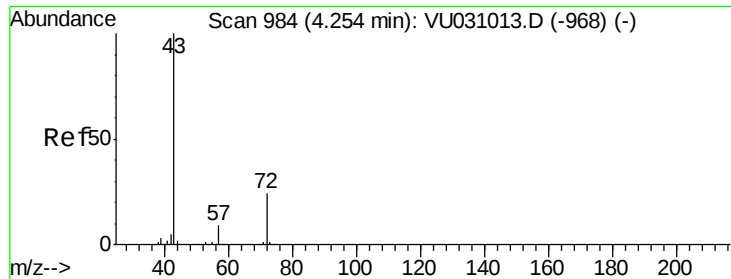
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	21.4	39.8
83	13.0	8.5	15.7



#20
 cis-1,2-Dichloroethene
 Concen: 48.916 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.8	102.9	191.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 86.568 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

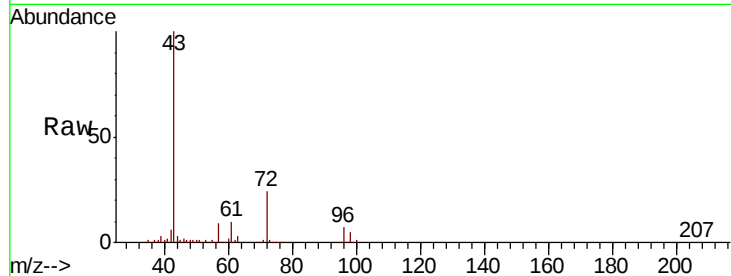
VSTD05059

Tot Ion: 43 Resp: 398726

Ion Ratio Lower Upper

43 100

72 24.3 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU031013.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU031013.D (-968) (-)

4.25

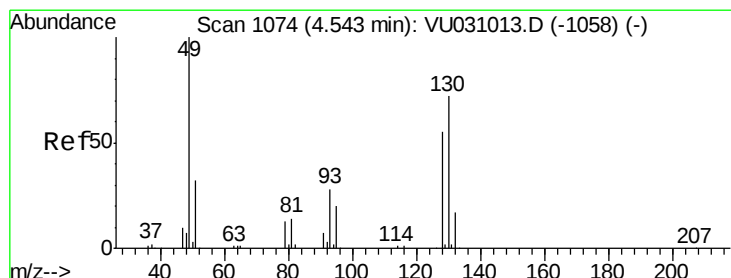
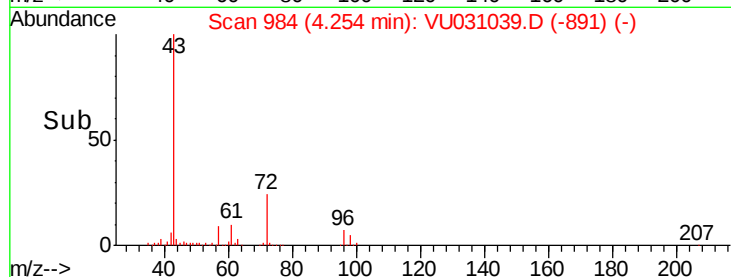
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 51.542 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Tgt Ion: 128 Resp: 107155

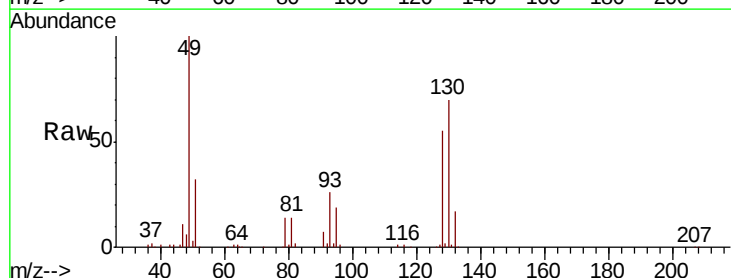
Ion Ratio Lower Upper

128 100

49 180.6 139.9 259.7

130 126.7 86.6 160.8

51 58.5 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU031013.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU031013.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU031013.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU031013.D (-1058) (-)

120000

100000

80000

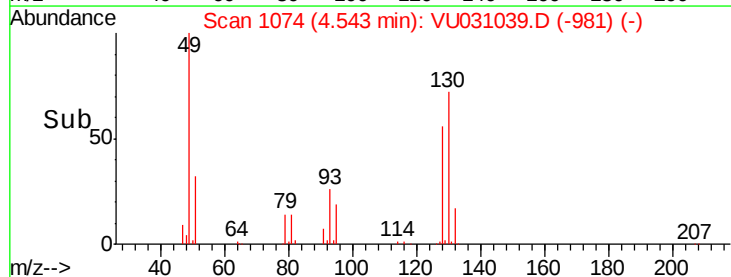
60000

40000

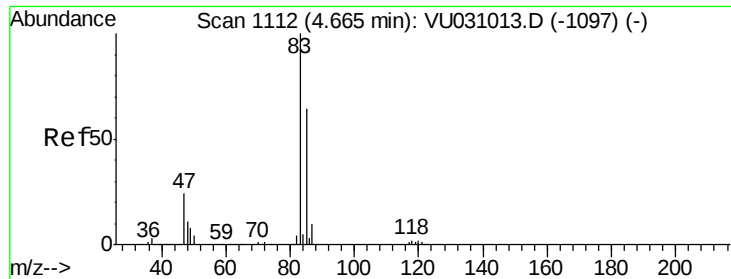
20000

0

Time-->



4.54



#25

Chloroform

Concen: 48.079 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

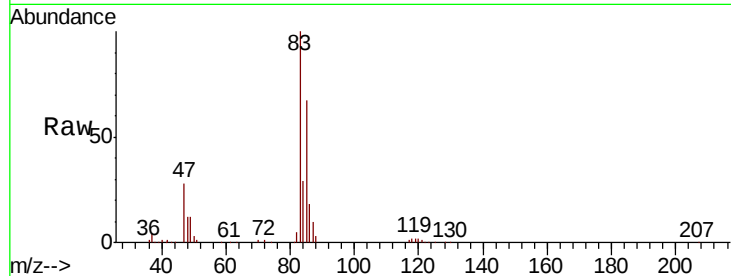
VSTD05059

Tot Ion: 83 Resp: 397159

Ion Ratio Lower Upper

83 100

85 66.5 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU031039.D (-1097) (-)

Ion 85.00 (84.70 to 85.70): VU031039.D (-1097) (-)

4.67

150000

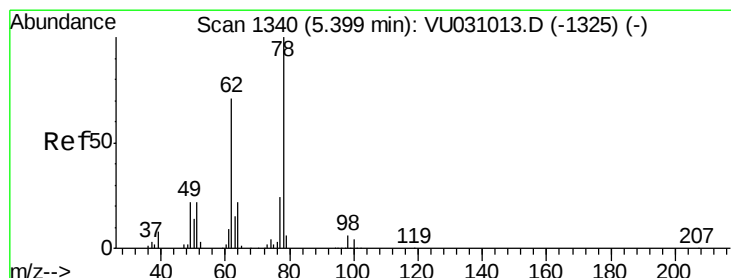
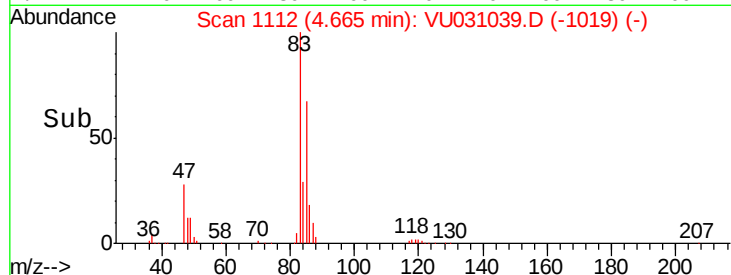
100000

50000

0

4.60 4.70 4.80

Time-->



#27

1,2-Dichloroethane

Concen: 48.686 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU031039.D

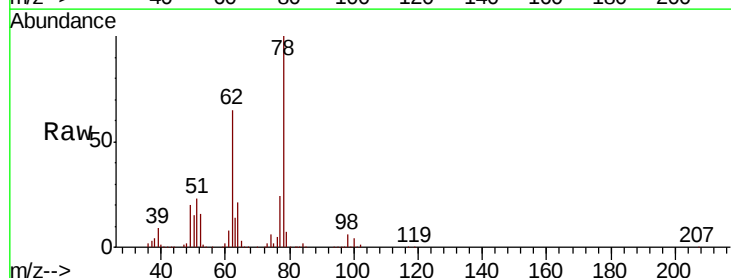
Acq: 11 Apr 2019 02:51

Tgt Ion: 62 Resp: 306953

Ion Ratio Lower Upper

62 100

98 8.6 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU031039.D (-1247) (-)

Ion 98.00 (97.70 to 98.70): VU031039.D (-1247) (-)

5.40

150000

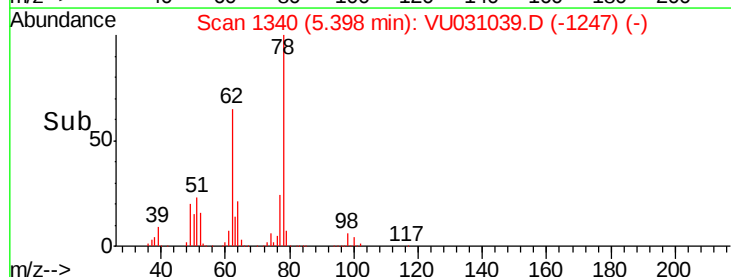
100000

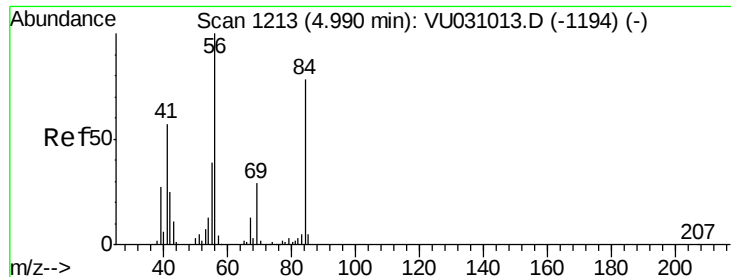
50000

0

5.30 5.40 5.50

Time-->

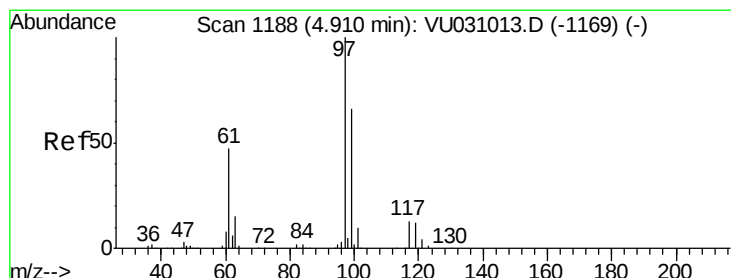
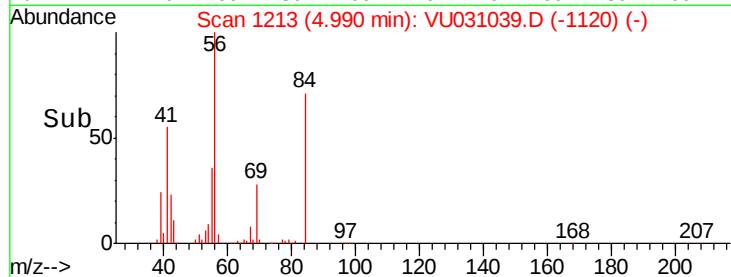
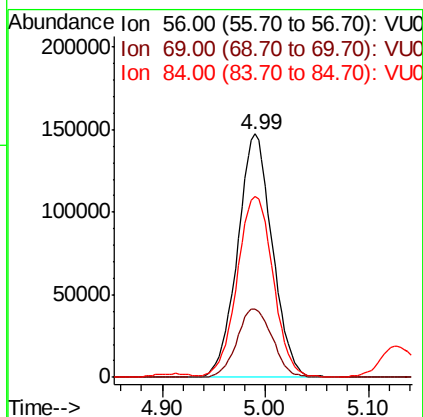
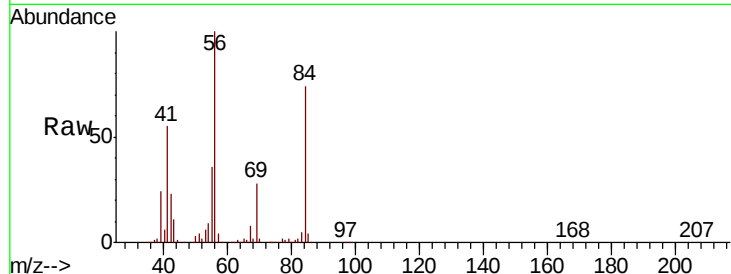




#29
Cyclohexane
Concen: 45.674 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

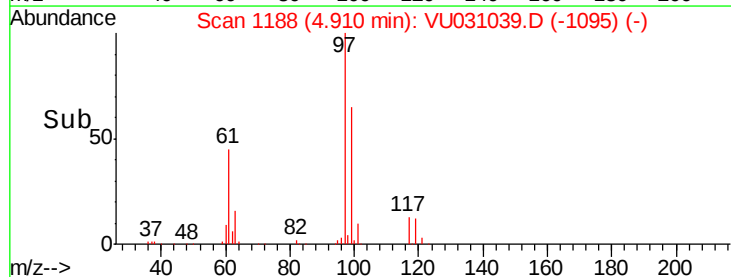
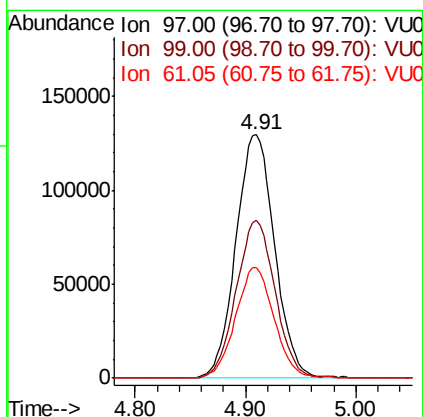
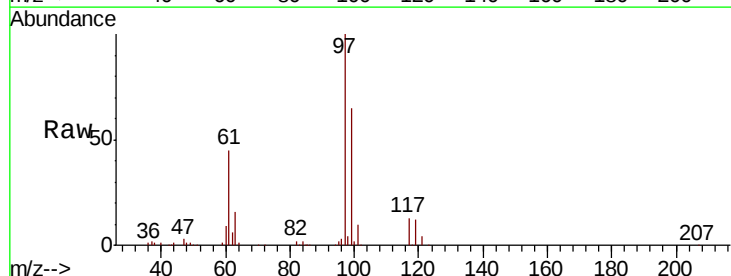
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

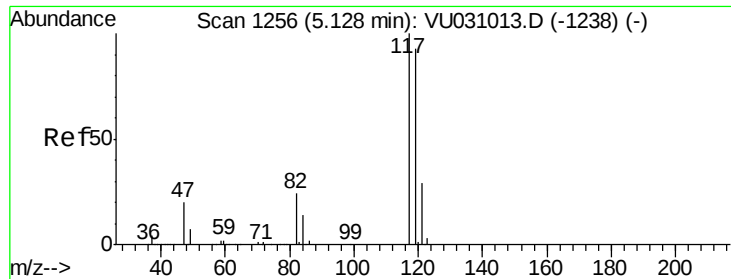
Tot Ion: 56 Resp: 345002
Ion Ratio Lower Upper
56 100
69 28.8 22.0 33.0
84 76.4 58.2 87.2



#30
1,1,1-Trichloroethane
Concen: 48.858 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

Tgt Ion: 97 Resp: 315558
Ion Ratio Lower Upper
97 100
99 64.9 51.4 77.2
61 45.2 37.1 55.7

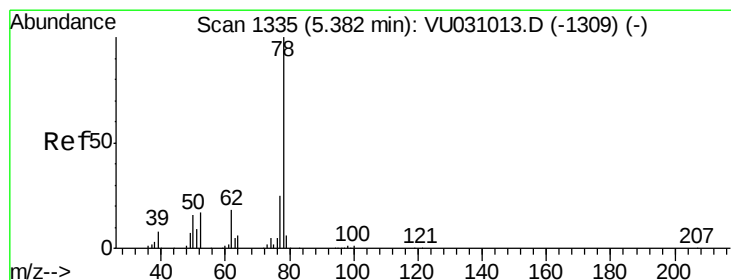
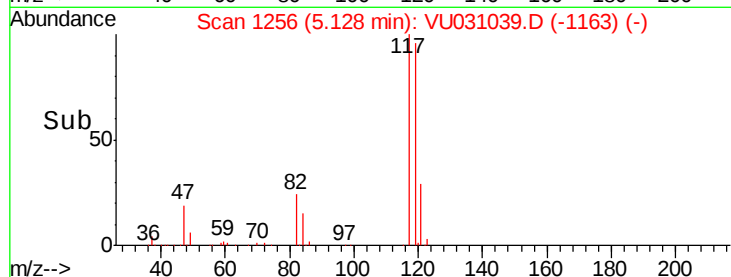
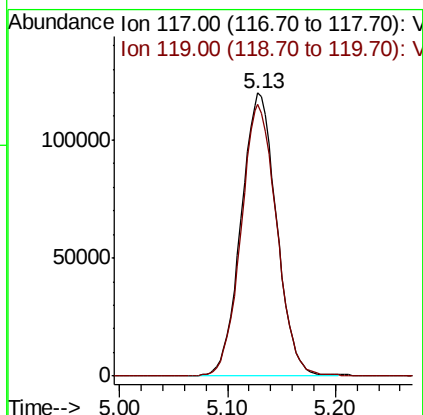
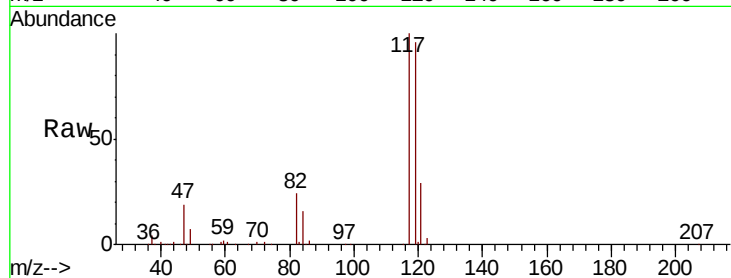




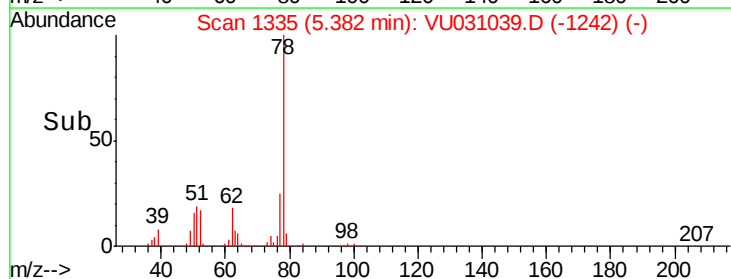
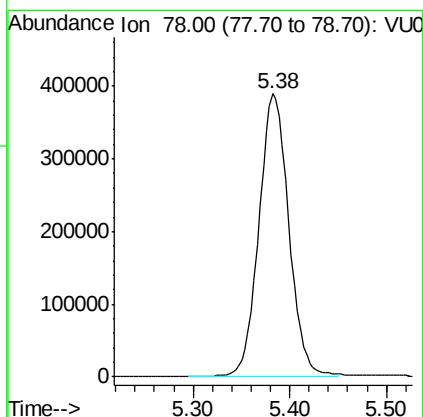
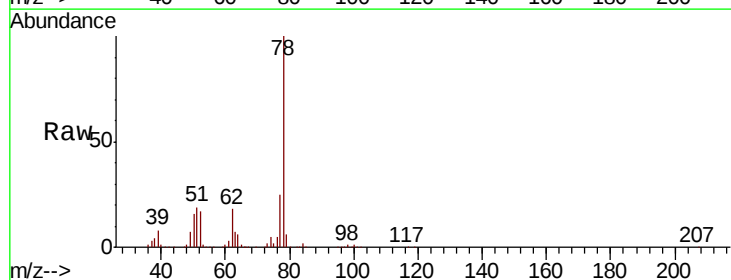
#31
Carbon tetrachloride
Concen: 49.235 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

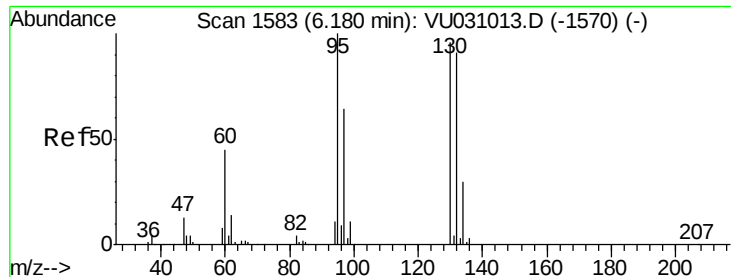
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tot Ion:117 Resp: 274028
Ion Ratio Lower Upper
117 100
119 96.3 76.2 114.2



#33
Benzene
Concen: 48.369 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51
Tgt Ion: 78 Resp: 838857

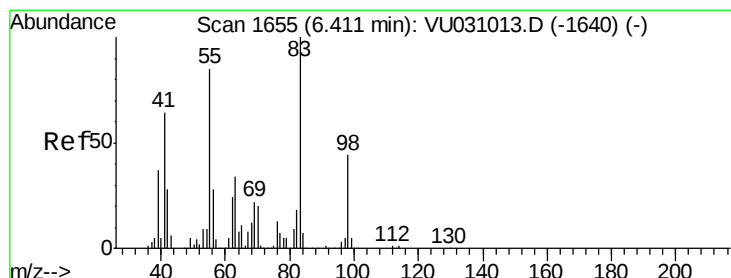
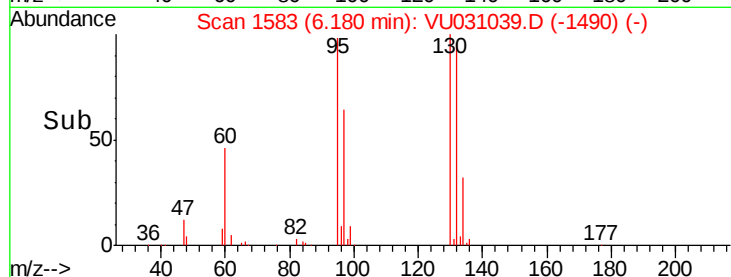
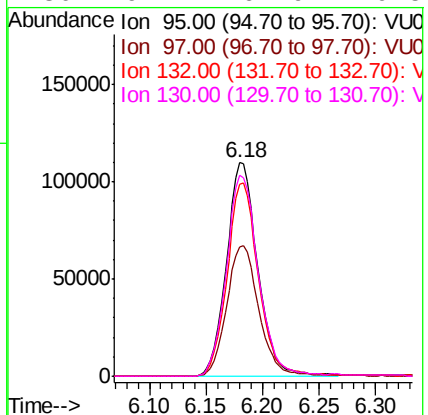
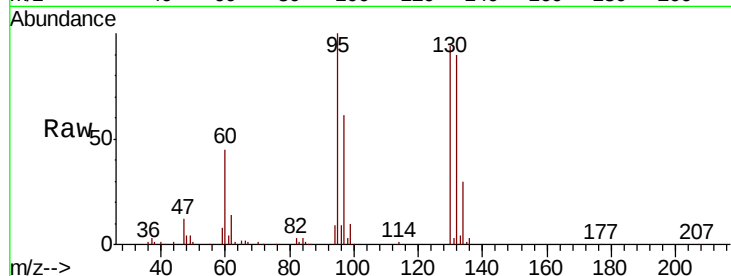




#34
 Trichloroethene
 Concen: 49.759 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

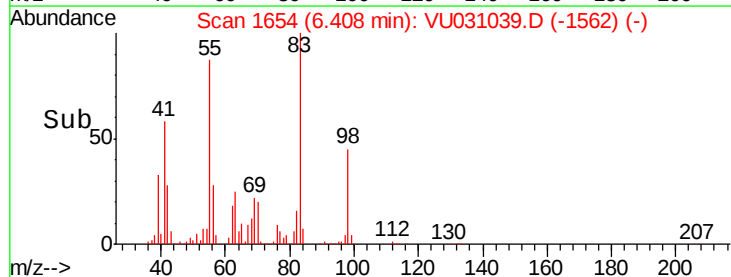
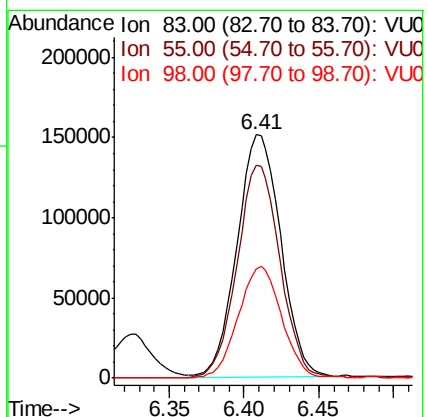
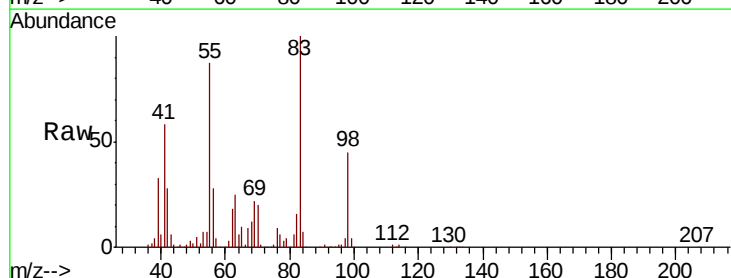
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

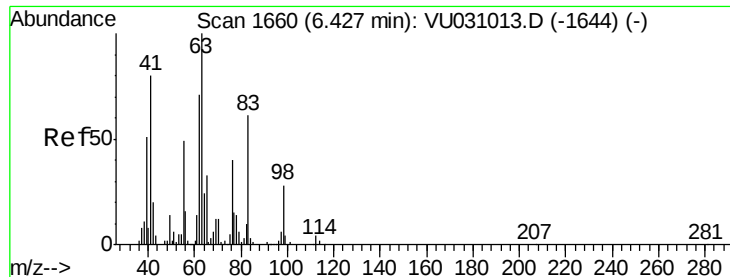
Tot Ion:	95	Resp:	211657
Ion	Ratio	Lower	Upper
95	100		
97	60.6	44.5	82.7
132	90.0	61.5	114.1
130	94.2	64.9	120.5



#35
 Methylcyclohexane
 Concen: 46.880 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

Tgt Ion:	83	Resp:	307746
Ion	Ratio	Lower	Upper
83	100		
55	86.3	71.6	107.4
98	45.7	35.4	53.0

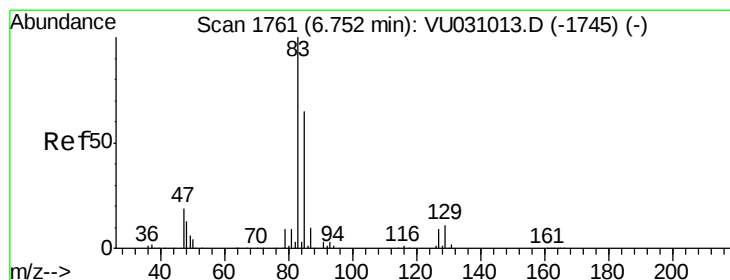
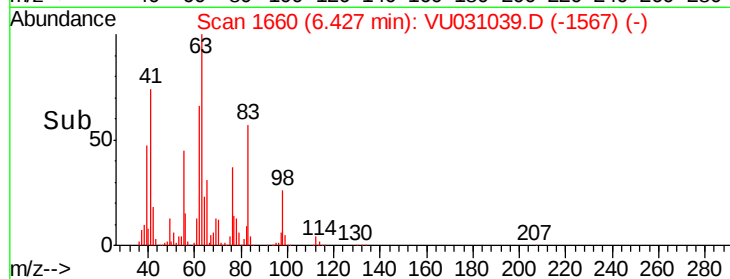
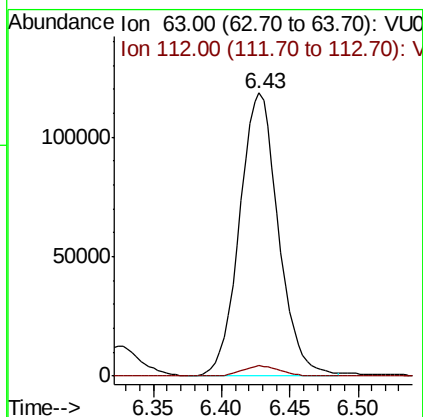
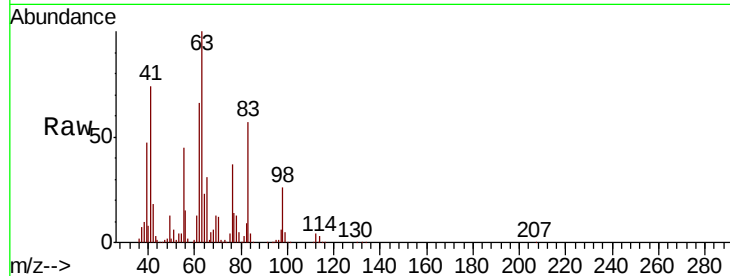




#37
 1,2-Dichloropropane
 Concen: 47.391 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

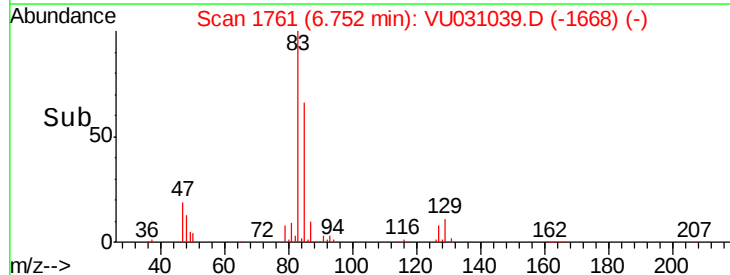
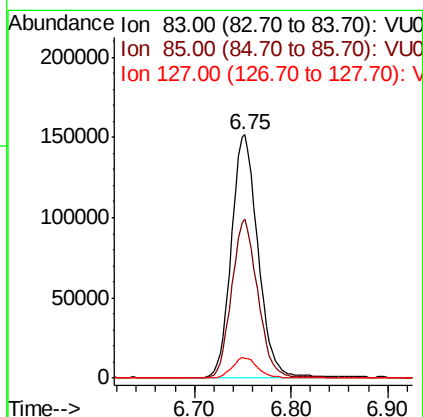
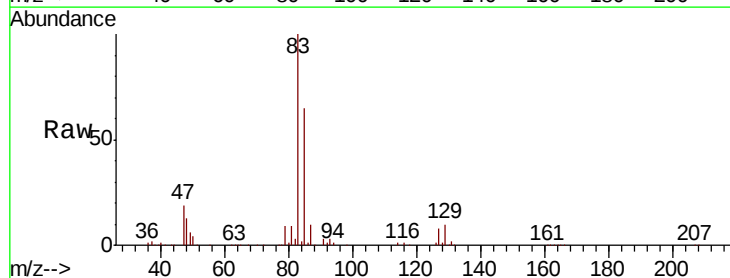
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

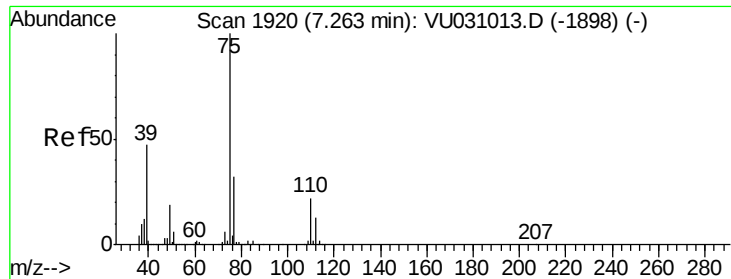
Tot Ion: 63 Resp: 232727
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.0 4.4



#38
 Bromodichloromethane
 Concen: 48.886 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

Tgt Ion: 83 Resp: 289616
 Ion Ratio Lower Upper
 83 100
 85 65.4 46.5 86.3
 127 8.3 6.6 10.0

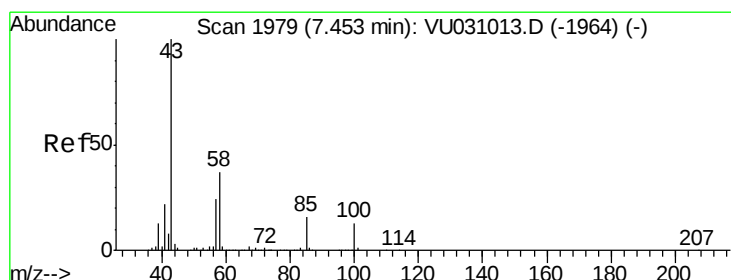
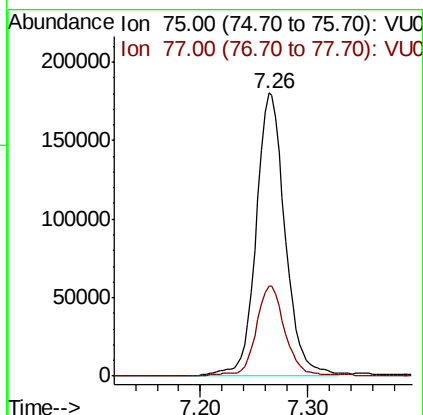
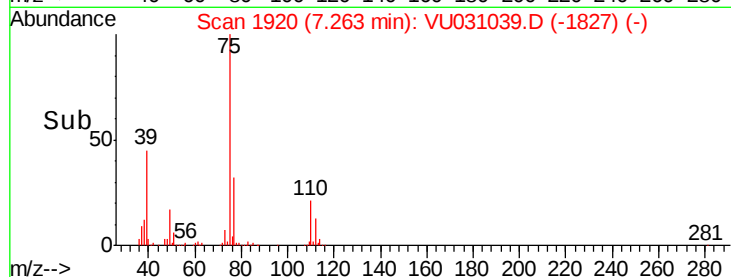
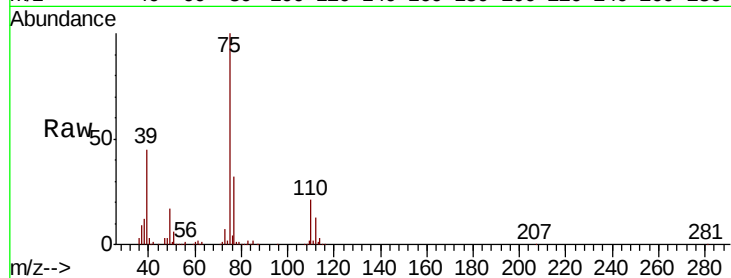




#39
 cis-1,3-Dichloropropene
 Concen: 48.147 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

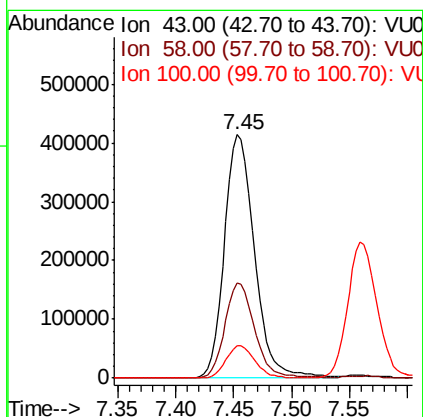
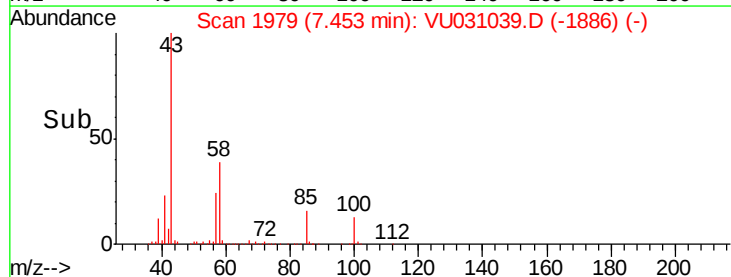
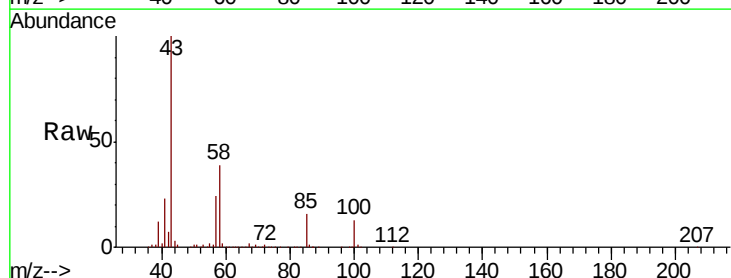
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

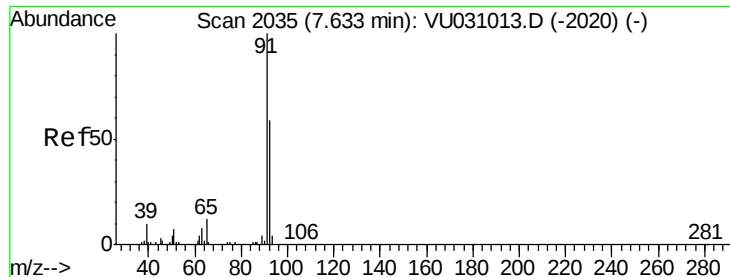
Tot Ion: 75 Resp: 336536
 Ion Ratio Lower Upper
 75 100
 77 32.0 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 94.758 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

Tgt Ion: 43 Resp: 748307
 Ion Ratio Lower Upper
 43 100
 58 38.6 29.7 44.5
 100 12.9 9.8 14.6





#42

Toluene

Concen: 49.746 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

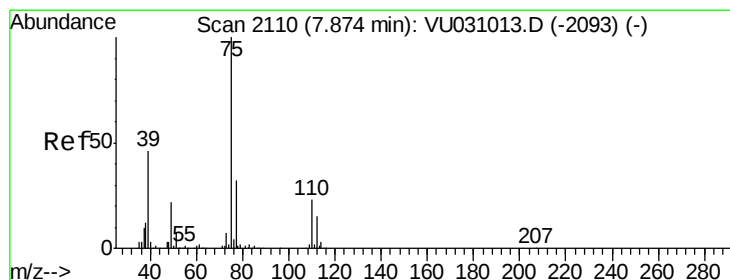
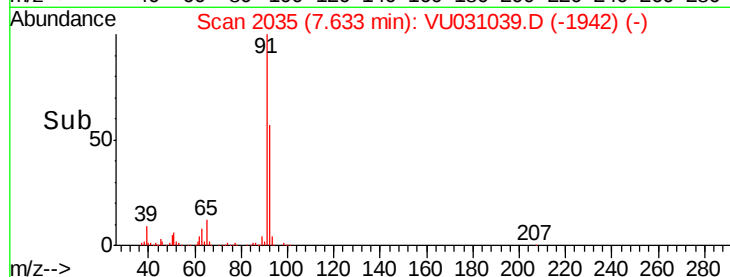
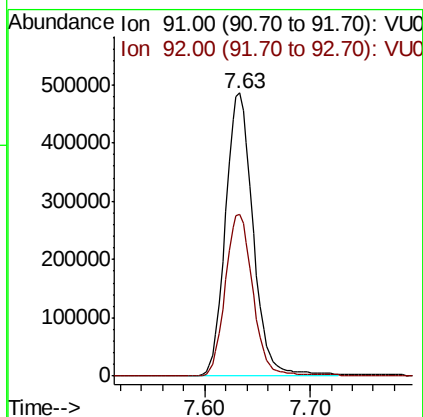
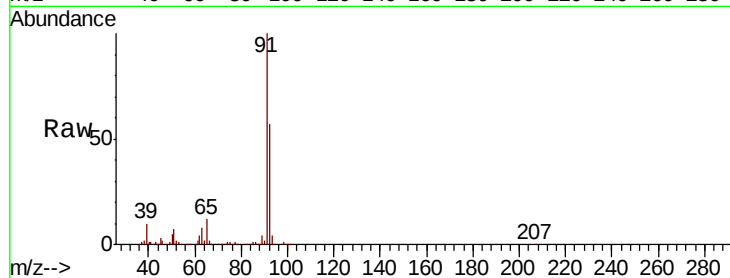
VSTD05059

Tot Ion: 91 Resp: 880659

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 47.722 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031039.D

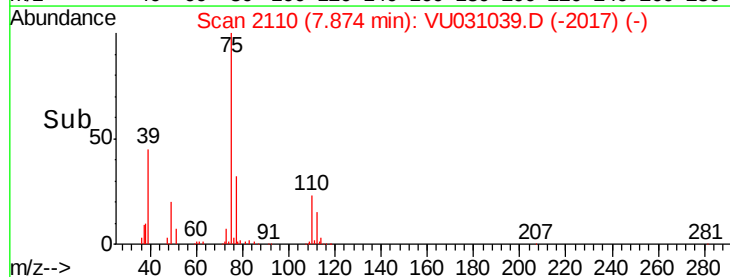
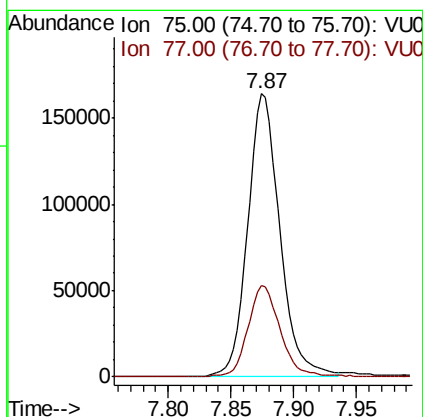
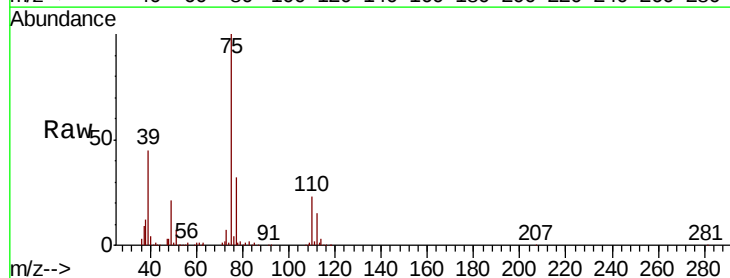
Acq: 11 Apr 2019 02:51

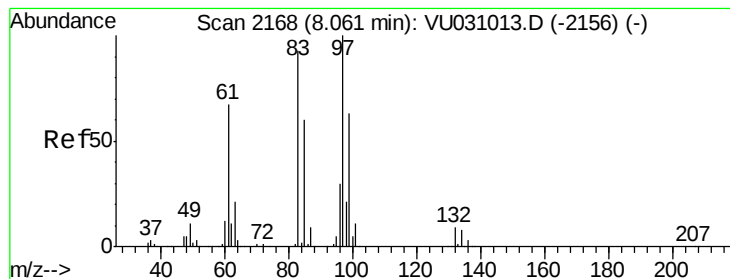
Tgt Ion: 75 Resp: 293964

Ion Ratio Lower Upper

75 100

77 32.1 21.6 40.0





#45

1,1,2-Trichloroethane

Concen: 49.559 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

Tot Ion: 97 Resp: 206408

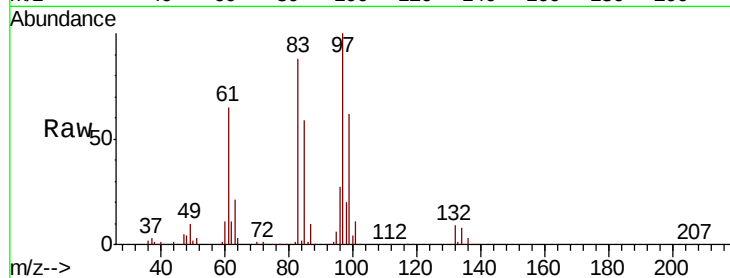
Ion	Ratio	Lower	Upper
97	100		
99	62.4	44.0	81.8
83	87.6	65.3	121.3
85	58.9	42.5	78.9

97 100

99 62.4 44.0 81.8

83 87.6 65.3 121.3

85 58.9 42.5 78.9



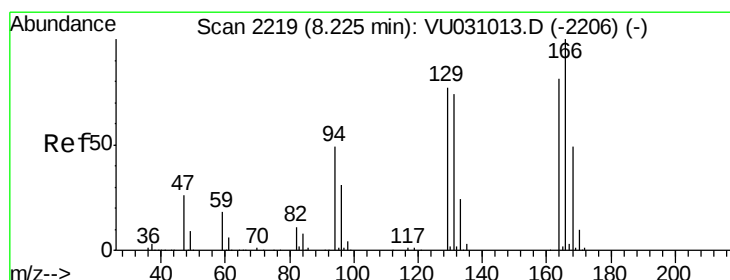
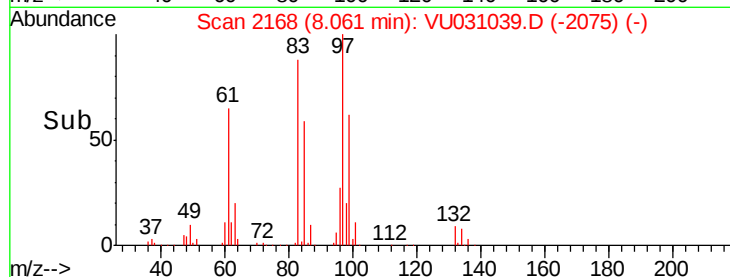
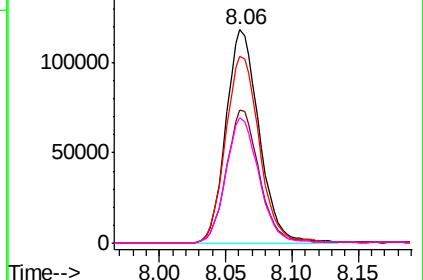
Abundance

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: 50.272 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Tgt Ion:164 Resp: 155468

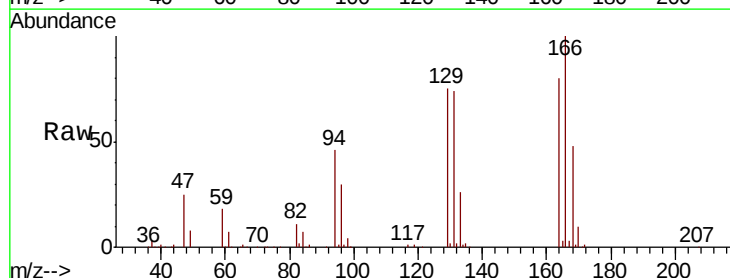
Ion	Ratio	Lower	Upper
164	100		
129	94.0	67.4	125.2
131	92.8	65.9	122.5
166	125.1	88.6	164.6

164 100

129 94.0 67.4 125.2

131 92.8 65.9 122.5

166 125.1 88.6 164.6



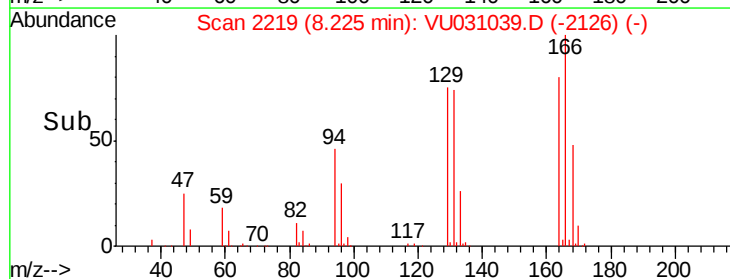
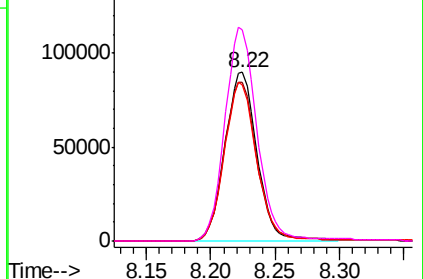
Abundance

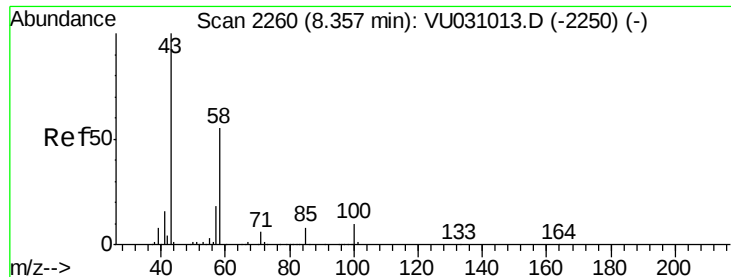
Ion 164.00 (163.70 to 164.70): V

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

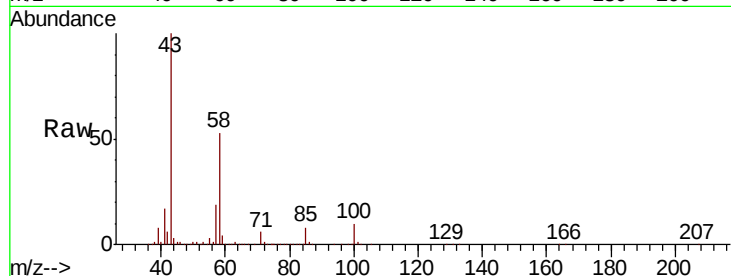




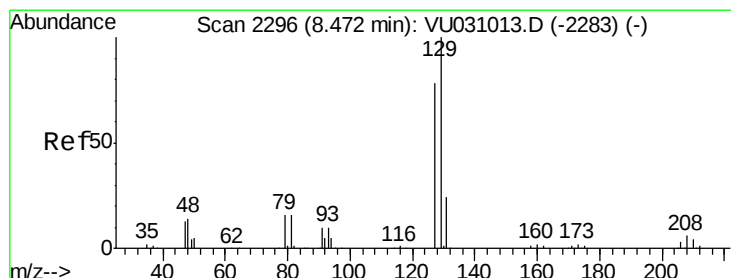
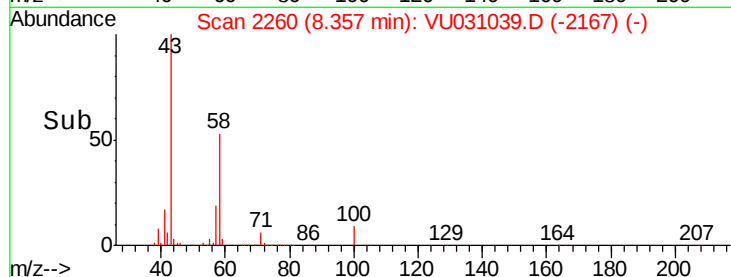
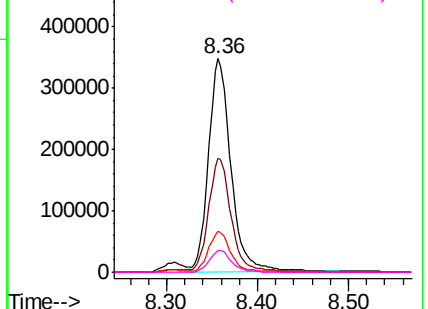
#48
2-Hexanone
Concen: 96.730 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tot Ion: 43 Resp: 595969
Ion Ratio Lower Upper
43 100
58 52.9 41.9 62.9
57 18.9 14.3 21.5
100 10.2 7.1 10.7

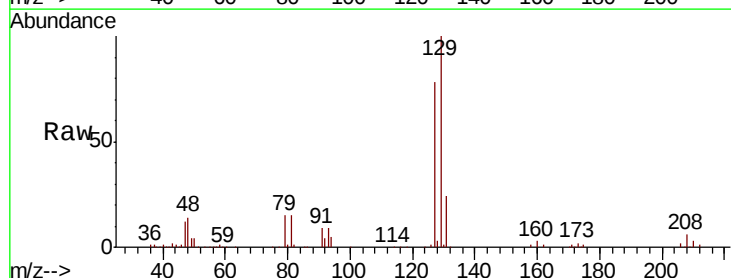


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

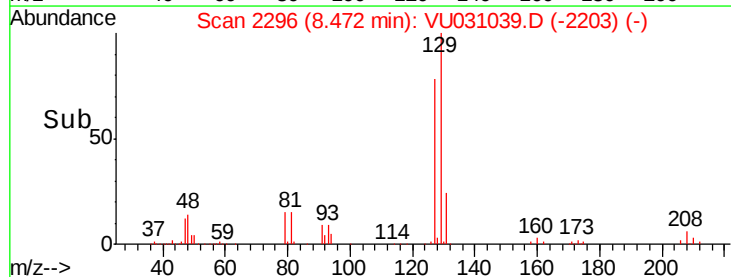
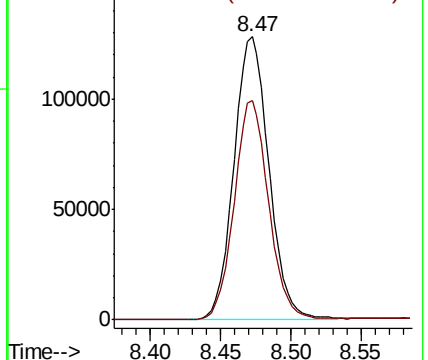


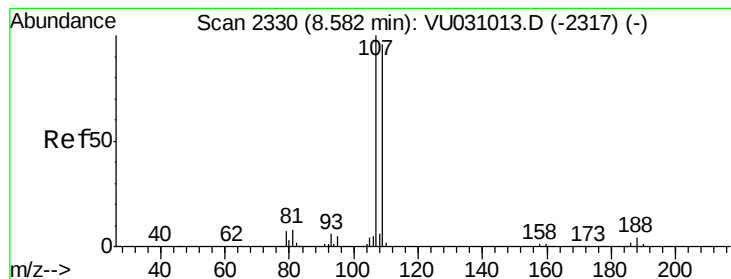
#49
Dibromochloromethane
Concen: 50.656 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031039.D
Acq: 11 Apr 2019 02:51

Tgt Ion: 129 Resp: 223865
Ion Ratio Lower Upper
129 100
127 77.5 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: 49.220 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

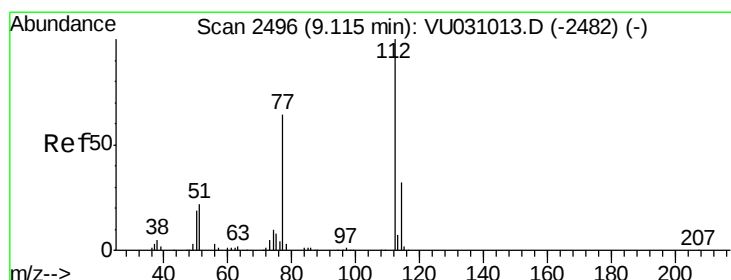
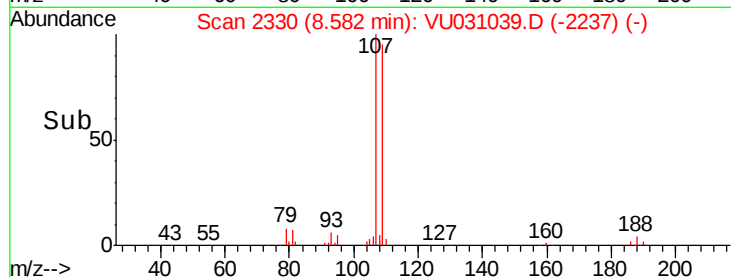
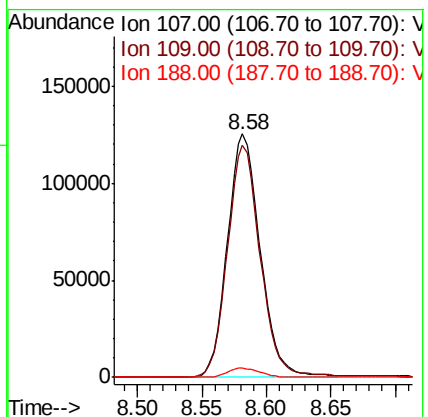
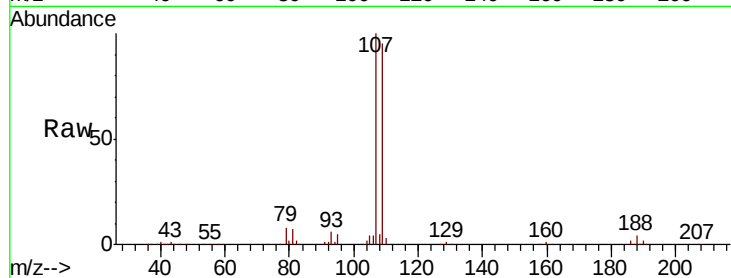
Tot Ion:107 Resp: 221825

Ion Ratio Lower Upper

107 100

109 95.3 66.4 123.2

188 3.8 2.6 4.0



#51

Chlorobenzene

Concen: 50.018 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

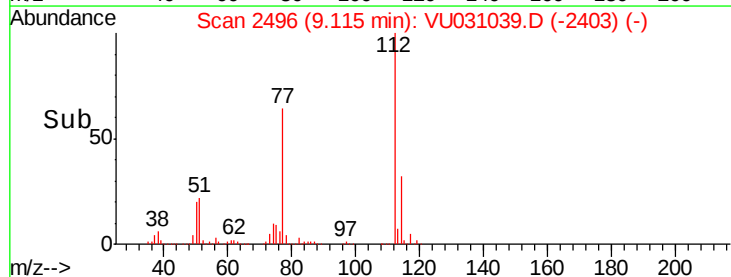
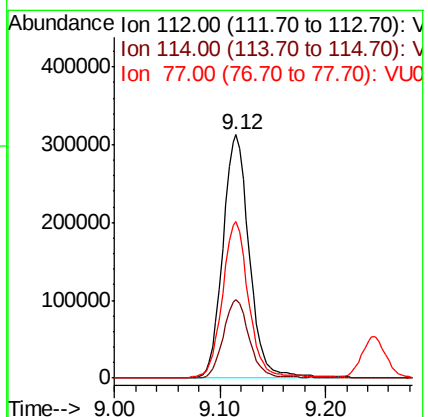
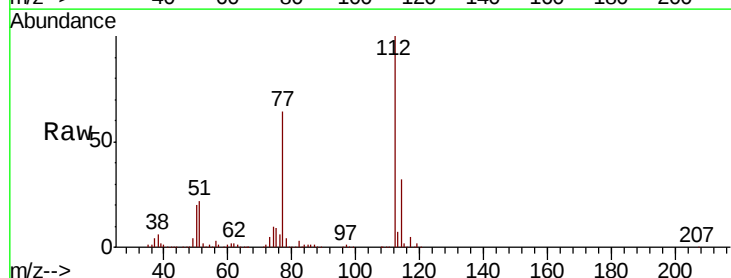
Tgt Ion:112 Resp: 543087

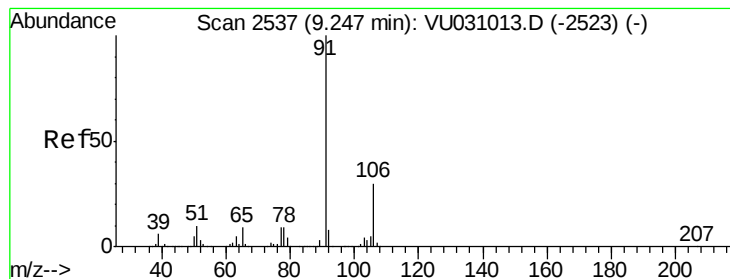
Ion Ratio Lower Upper

112 100

114 32.3 22.2 41.2

77 64.5 51.7 77.5





#52

Ethylbenzene

Concen: 49.554 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

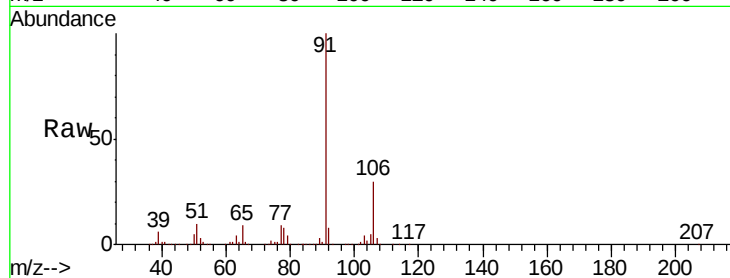
VSTD05059

Tot Ion: 91 Resp: 956226

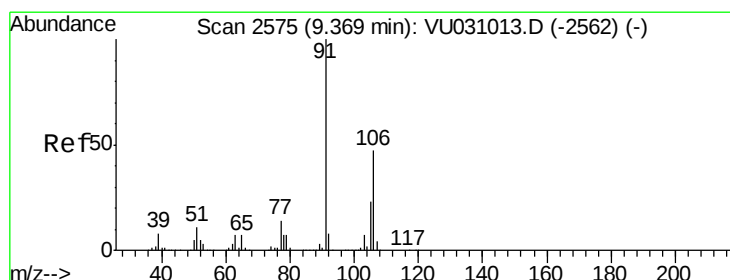
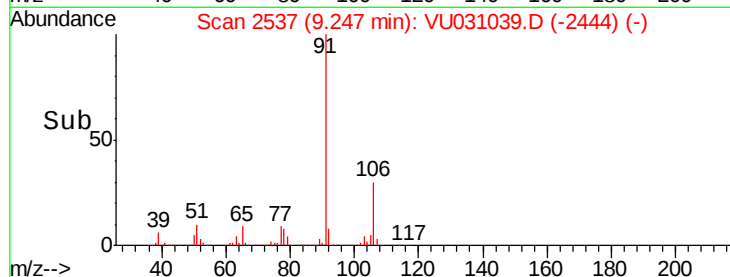
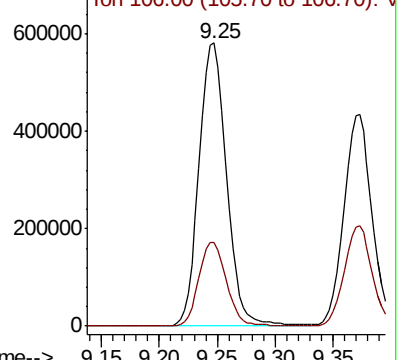
Ion Ratio Lower Upper

91 100

106 29.6 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU031039.D (-2444) (-)



#53

m,p-Xylene

Concen: 50.814 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031039.D

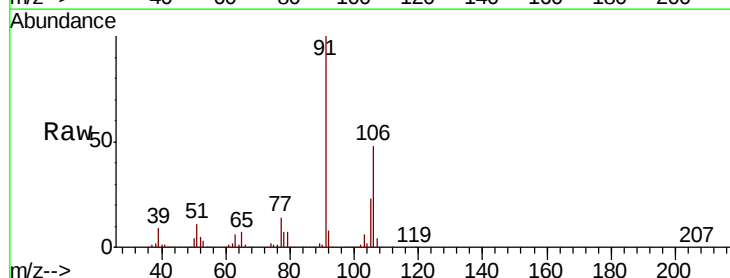
Acq: 11 Apr 2019 02:51

Tgt Ion: 106 Resp: 341985

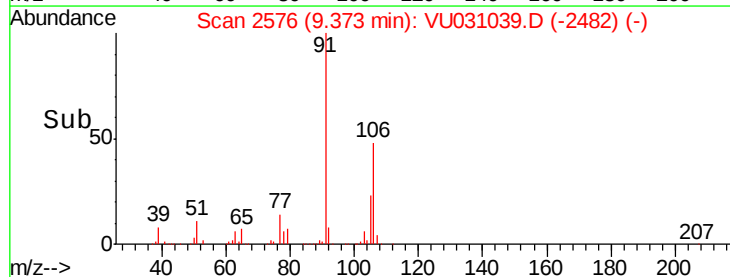
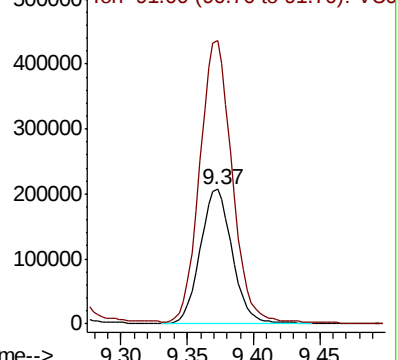
Ion Ratio Lower Upper

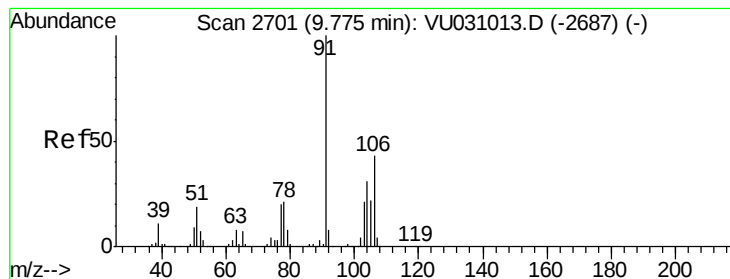
106 100

91 210.5 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): VU031039.D (-2482) (-)





#54

o-xylene

Concen: 52.084 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

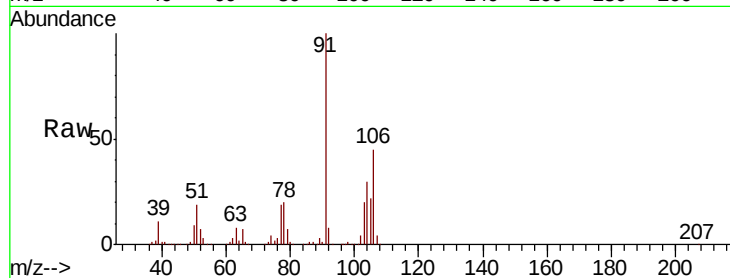
VSTD05059

Tot Ion:106 Resp: 348668

Ion Ratio Lower Upper

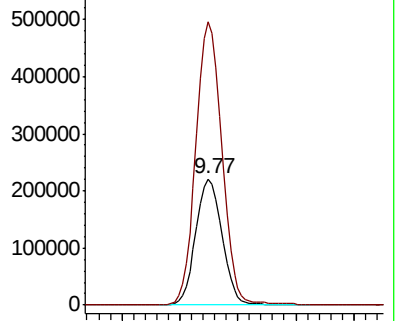
106 100

91 224.5 156.7 290.9

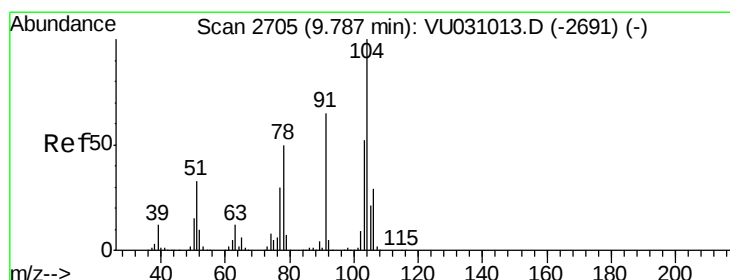
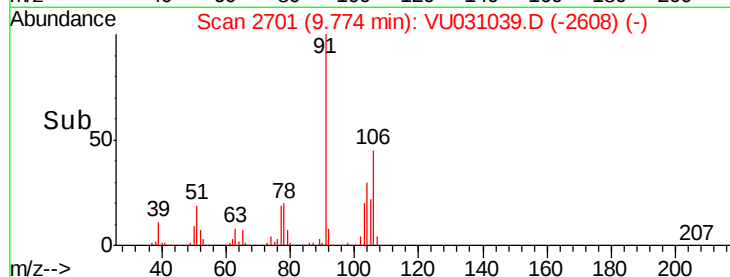


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



Time-->



#55

Styrene

Concen: 52.450 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031039.D

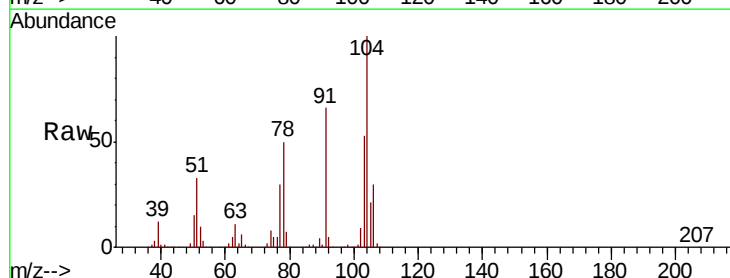
Acq: 11 Apr 2019 02:51

Tgt Ion:104 Resp: 602253

Ion Ratio Lower Upper

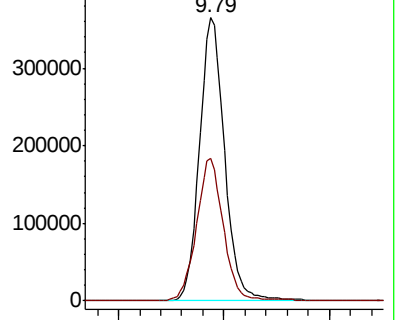
104 100

78 50.2 35.1 65.1

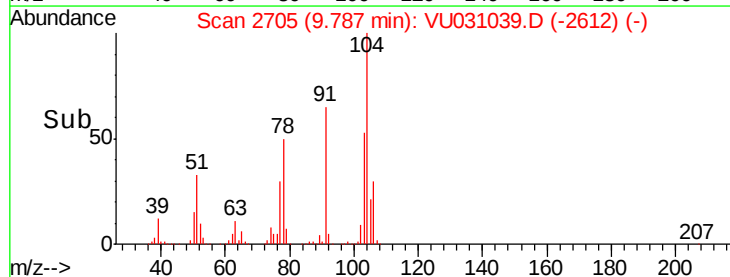


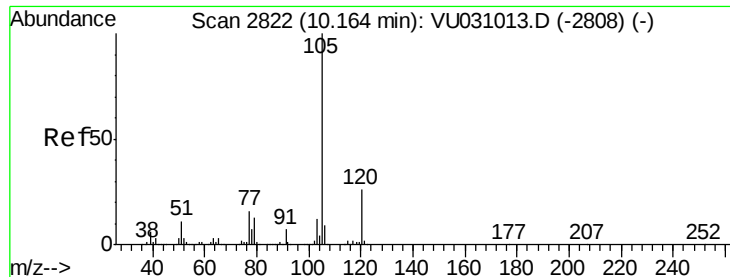
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



Time-->





#56

Isopropylbenzene

Concen: 51.819 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

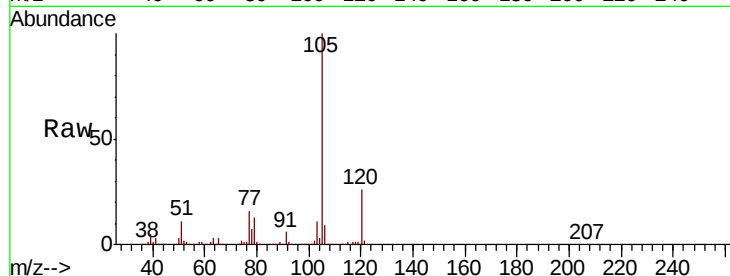
Tot Ion:105 Resp: 913312

Ion Ratio Lower Upper

105 100

120 25.9 20.4 30.6

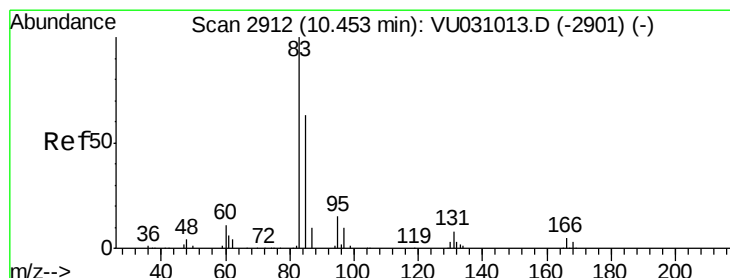
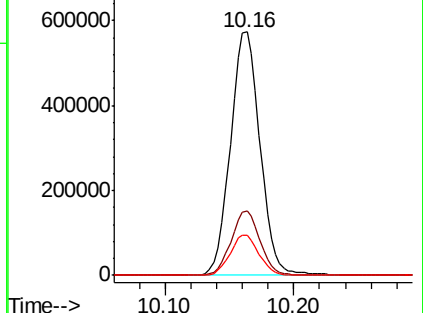
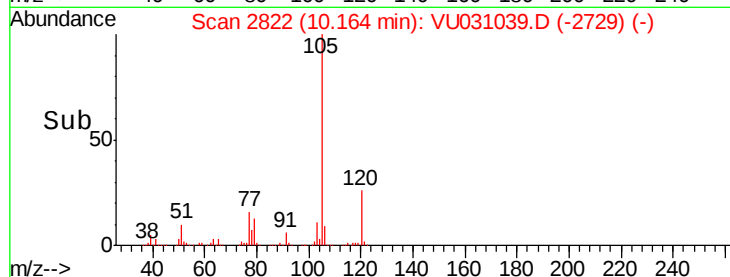
77 16.2 13.4 20.2



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: 48.640 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

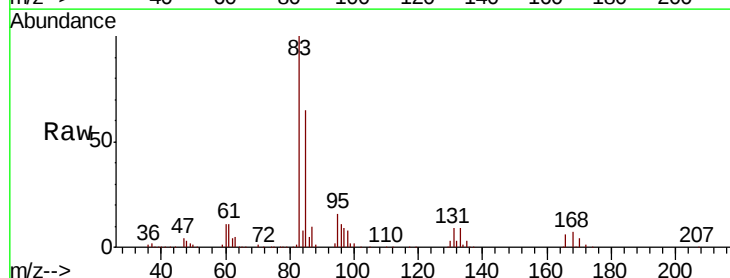
Tgt Ion: 83 Resp: 366425

Ion Ratio Lower Upper

83 100

85 64.6 45.3 84.1

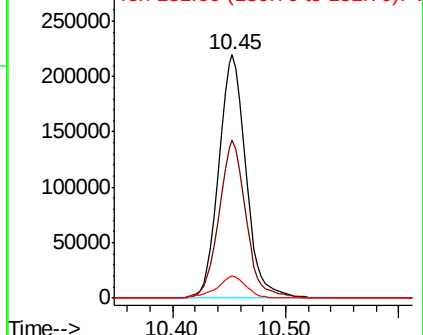
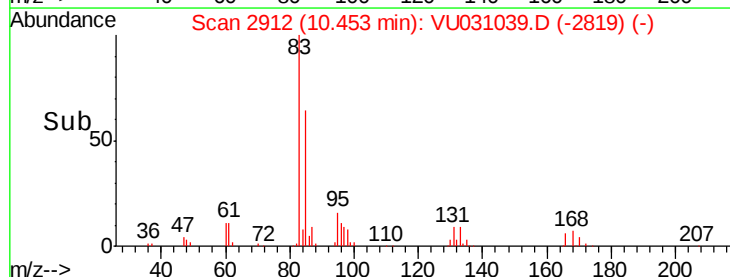
131 8.9 6.7 10.1

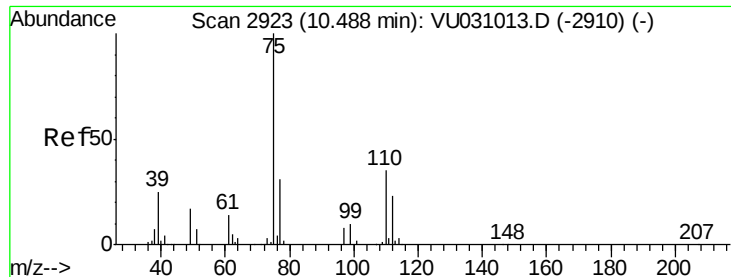


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

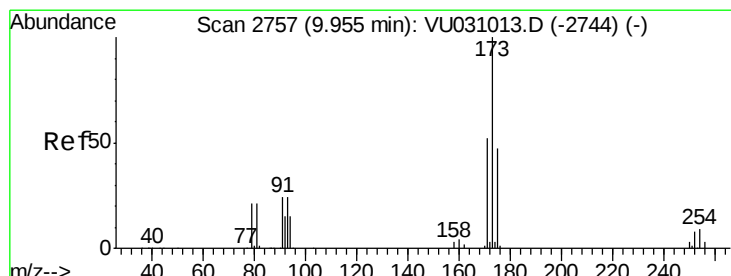
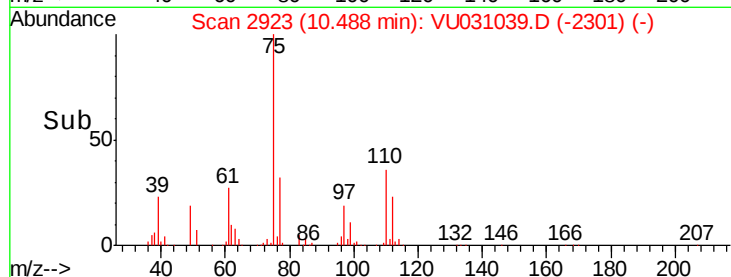
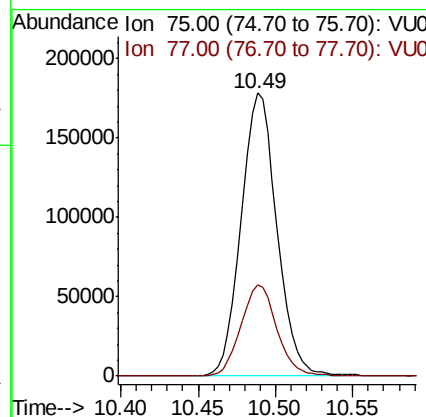
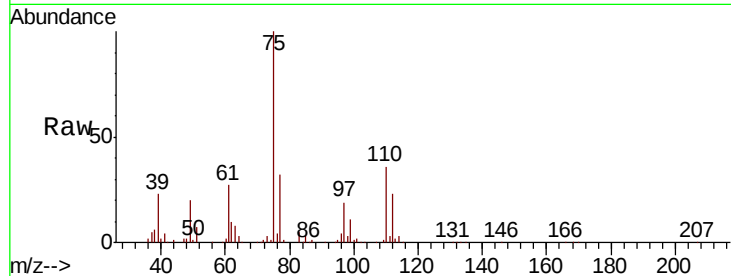




#59
 1,2,3-Trichloropropane
 Concen: 48.746 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

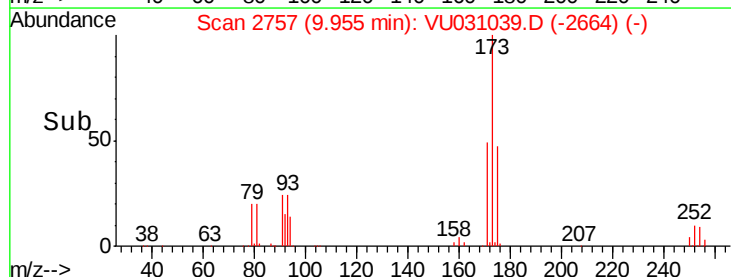
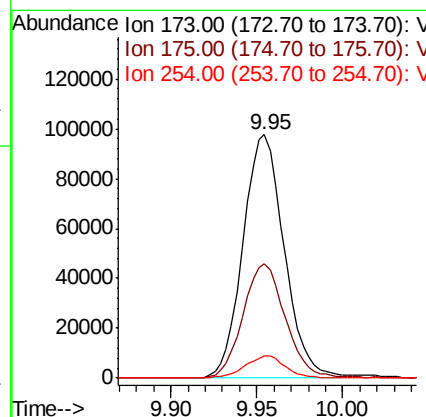
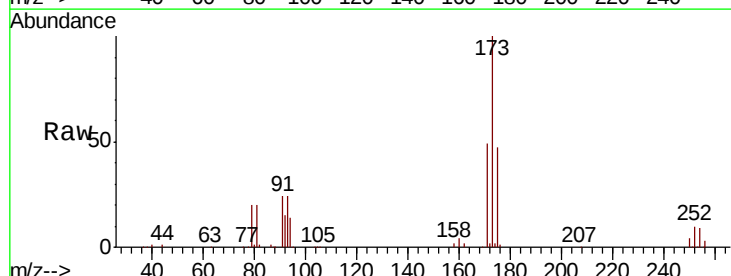
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

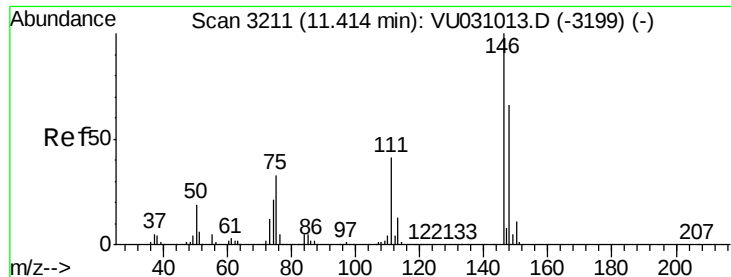
Tot Ion: 75 Resp: 286701
 Ion Ratio Lower Upper
 75 100
 77 32.3 26.1 39.1



#61
 Bromoform
 Concen: 47.428 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

Tgt Ion: 173 Resp: 162340
 Ion Ratio Lower Upper
 173 100
 175 48.4 39.1 58.7
 254 9.0 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 49.224 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

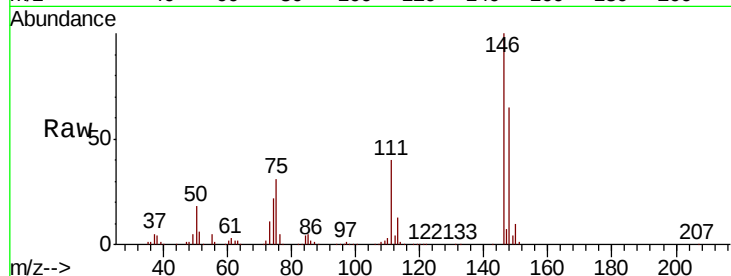
Tot Ion:146 Resp: 403097

Ion Ratio Lower Upper

146 100

111 40.4 30.9 57.5

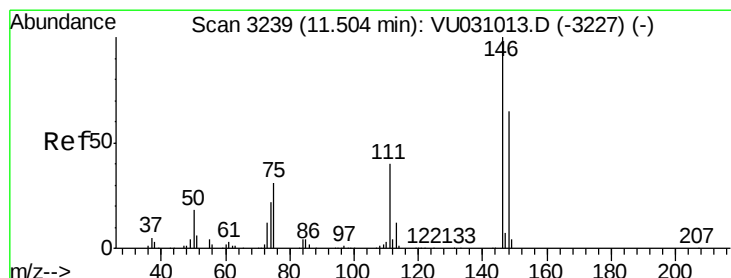
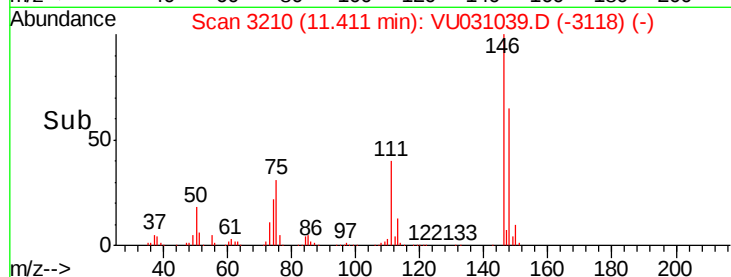
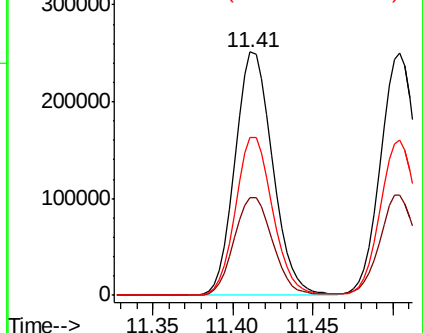
148 64.9 44.7 82.9



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: 48.577 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

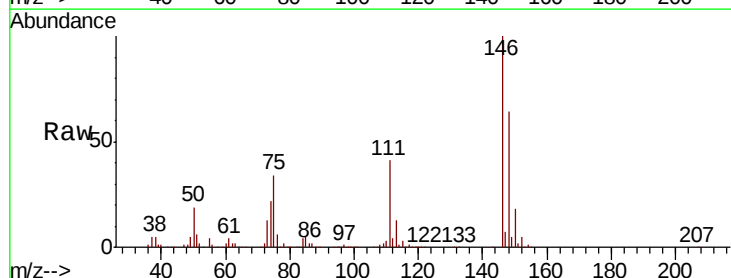
Tgt Ion:146 Resp: 404636

Ion Ratio Lower Upper

146 100

111 41.1 27.7 51.5

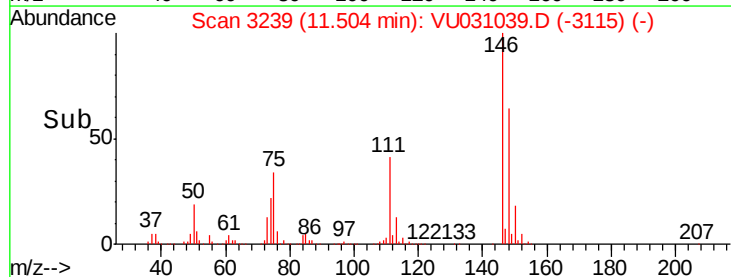
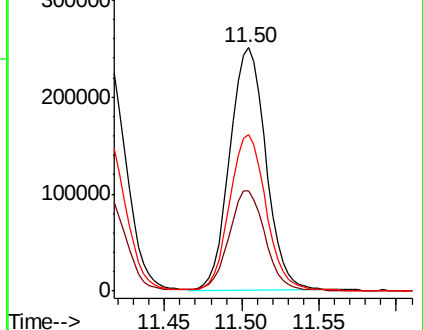
148 64.1 45.4 84.4

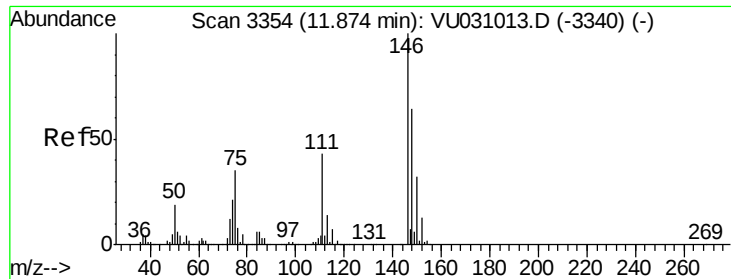


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

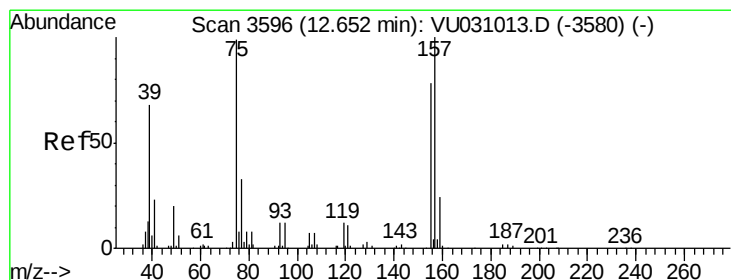
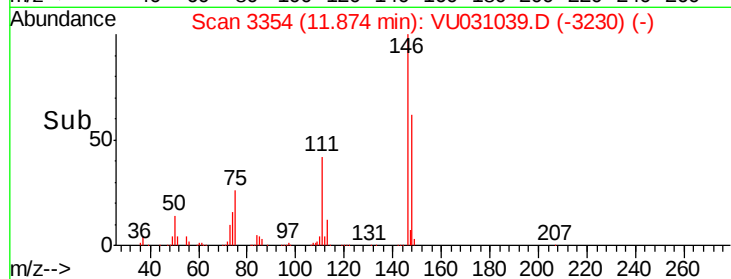
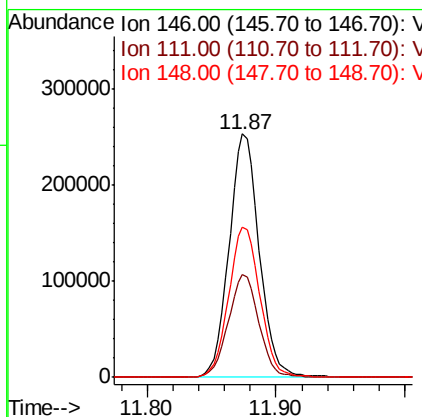
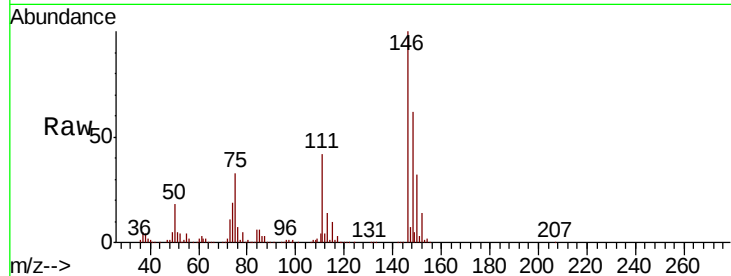




#65
 1,2-Dichlorobenzene
 Concen: 49.990 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

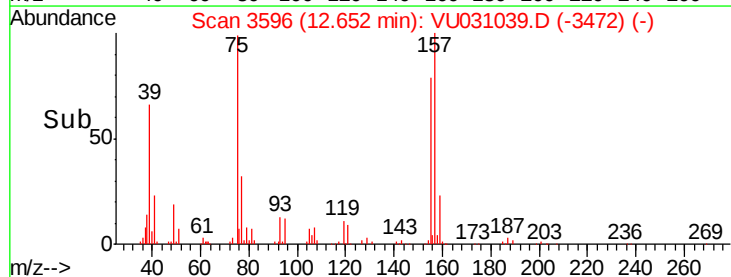
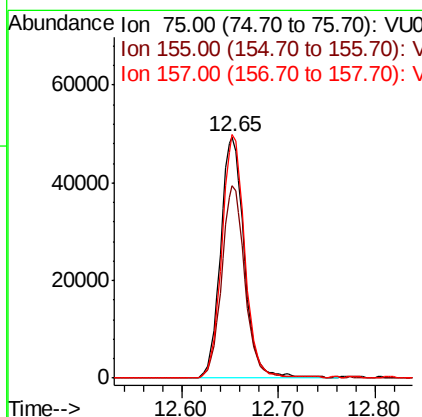
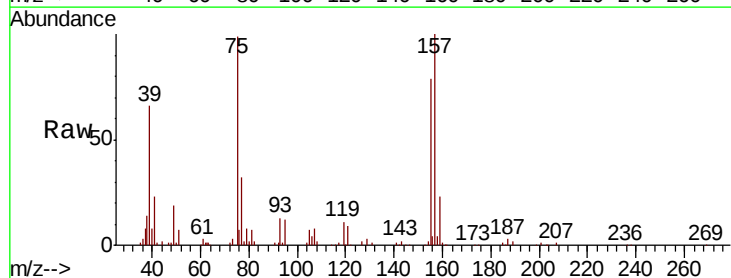
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

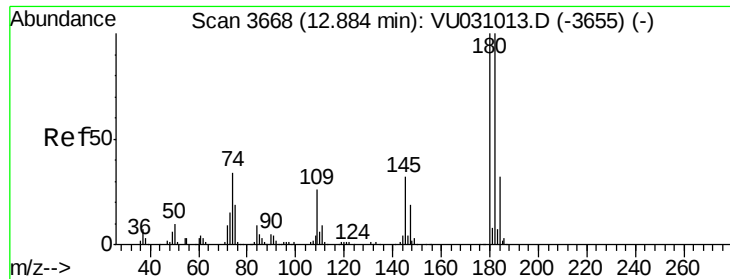
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	34.9	52.3
148	61.9	50.4	75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.169 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU031039.D
 Acq: 11 Apr 2019 02:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.6	64.1	96.1
157	101.0	80.6	120.8





#67

1,3,5-Trichlorobenzene

Concen: 48.890 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

Tot Ion:180 Resp: 292587

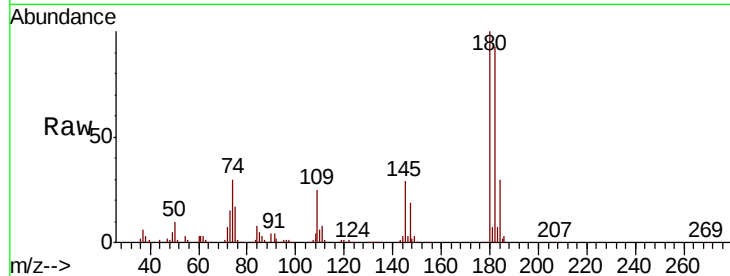
Ion Ratio Lower Upper

180 100

182 94.9 78.3 117.5

184 30.9 24.7 37.1

145 30.1 24.2 36.4

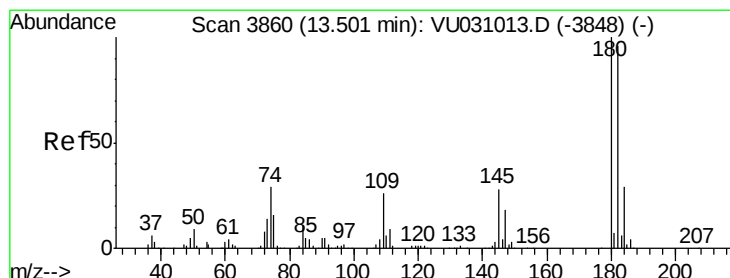
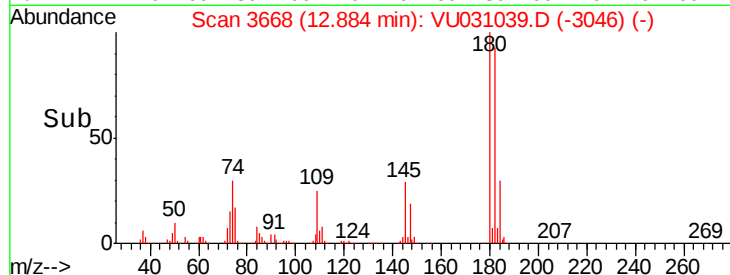
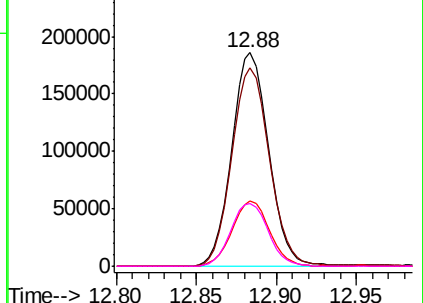


Abundance Ion 180.00 (179.70 to 180.70): V

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: 50.348 ug/L

RT: 13.50 min Scan# 3859

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

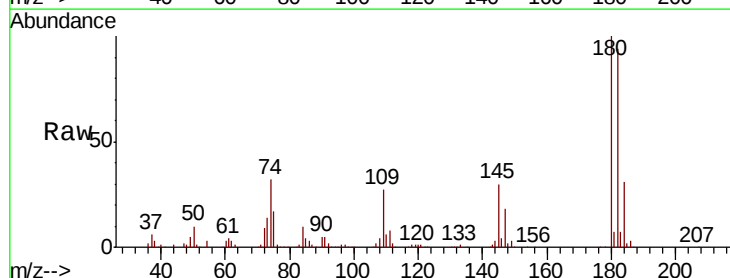
Tgt Ion:180 Resp: 256188

Ion Ratio Lower Upper

180 100

182 94.2 76.7 115.1

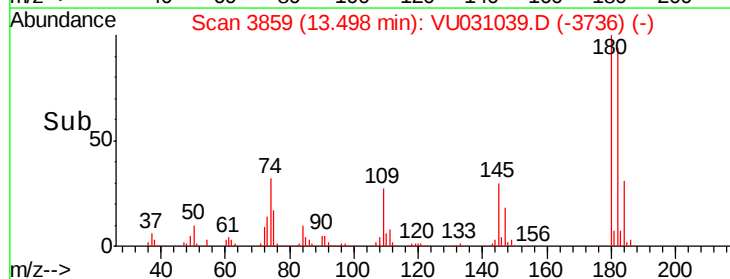
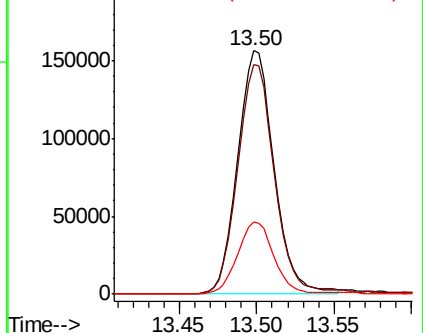
145 29.6 24.4 36.6

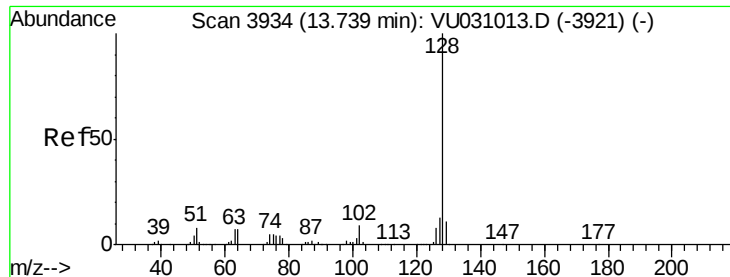


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 51.206 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

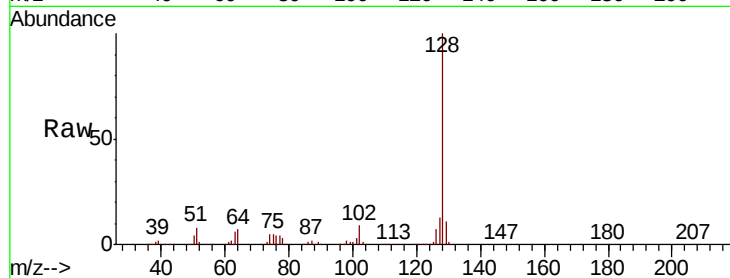
Tot Ion:128 Resp: 844660

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

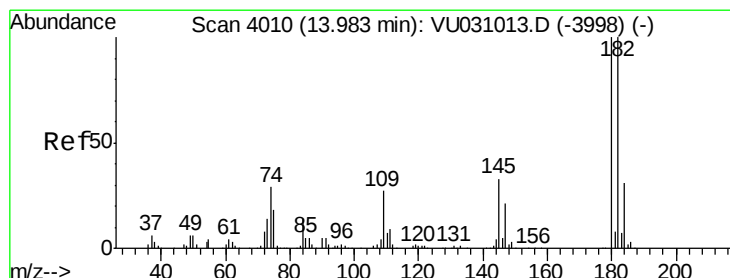
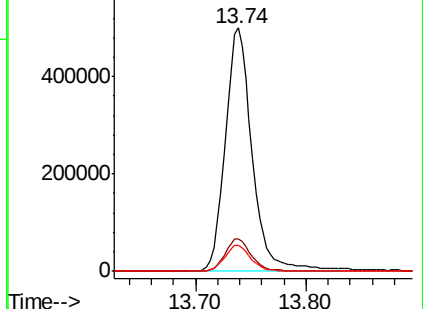
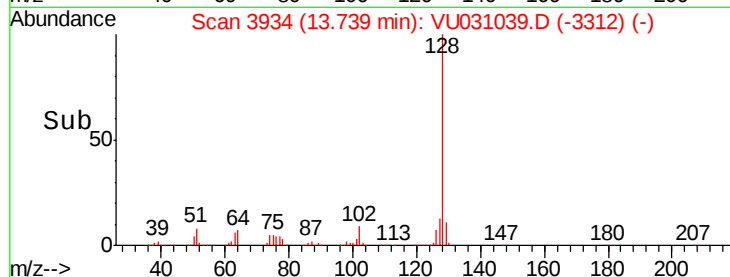
129 10.4 8.6 12.8



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: 50.455 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031039.D

Acq: 11 Apr 2019 02:51

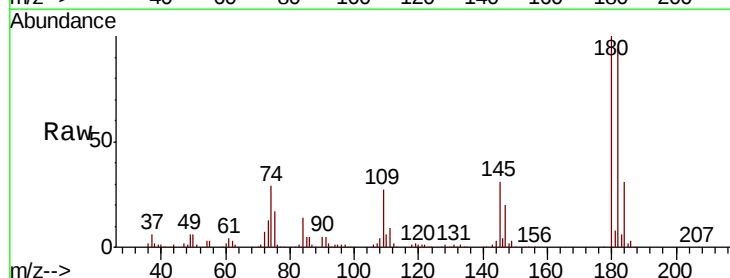
Tgt Ion:180 Resp: 268237

Ion Ratio Lower Upper

180 100

182 94.7 78.1 117.1

145 30.7 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

