

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041719\
 Data File : VU031215.D
 Acq On : 16 Apr 2019 16:54
 Operator : JC/SP
 Sample : VSTD05049
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Quant Time: Apr 17 02:39:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Apr 17 02:35:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	535121	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	506179	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	240012	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	230734	48.55	ug/L	0.00
7) Chloroethane-d5	1.68	69	214497	57.07	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	450350	51.50	ug/L	0.00
21) 2-Butanone-d5	4.19	46	378472	100.70	ug/L	0.00
24) Chloroform-d	4.64	84	418907	55.80	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	258013	51.51	ug/L	0.00
32) Benzene-d6	5.34	84	803443	53.41	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	254854	50.26	ug/L	0.00
41) Toluene-d8	7.56	98	711554	53.68	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	123684	53.12	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	249926	107.77	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	348649	51.05	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	255840	53.25	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	233529	49.393	ug/L 100
3) Chloromethane	1.32	50	271531	45.294	ug/L 100
5) Vinyl chloride	1.40	62	265824	45.942	ug/L 100
6) Bromomethane	1.63	94	181976	57.339	ug/L 100
8) Chloroethane	1.70	64	179117	52.377	ug/L 100
9) Trichlorofluoromethane	1.88	101	381762	54.198	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	197044	50.669	ug/L 100
12) 1,1-Dichloroethene	2.28	96	191412	51.275	ug/L 100
13) Acetone	2.34	43	256211	70.787	ug/L 100
14) Carbon disulfide	2.48	76	525967	46.403	ug/L 100
15) Methyl Acetate	2.62	43	227402	39.852	ug/L 100
16) Methylene chloride	2.70	84	193929	44.233	ug/L 100
17) trans-1,2-Dichloroethene	2.98	96	170844	44.460	ug/L 100
18) Methyl tert-butyl Ether	2.99	73	558990	43.682	ug/L 100
19) 1,1-Dichloroethane	3.44	63	349671	44.254	ug/L 100
20) cis-1,2-Dichloroethene	4.22	96	221499	50.637	ug/L 100
22) 2-Butanone	4.28	43	399922	91.442	ug/L 100
23) Bromochloromethane	4.54	128	109182	52.531	ug/L 100
25) Chloroform	4.67	83	394335	48.488	ug/L 100
27) 1,2-Dichloroethane	5.40	62	292676	47.418	ug/L 100
29) Cyclohexane	4.99	56	368726	50.835	ug/L 100
30) 1,1,1-Trichloroethane	4.91	97	326611	52.113	ug/L 100
31) Carbon tetrachloride	5.13	117	283006	52.353	ug/L 100
33) Benzene	5.39	78	840117	50.484	ug/L 100
34) Trichloroethene	6.18	95	203253	49.782	ug/L 100
35) Methylcyclohexane	6.41	83	301946	48.412	ug/L 100
37) 1,2-Dichloropropane	6.43	63	214264	46.262	ug/L 100
38) Bromodichloromethane	6.75	83	276254	48.820	ug/L 100
39) cis-1,3-Dichloropropene	7.26	75	323820	48.985	ug/L 100
40) 4-Methyl-2-pentanone	7.46	43	636710	87.613	ug/L 100

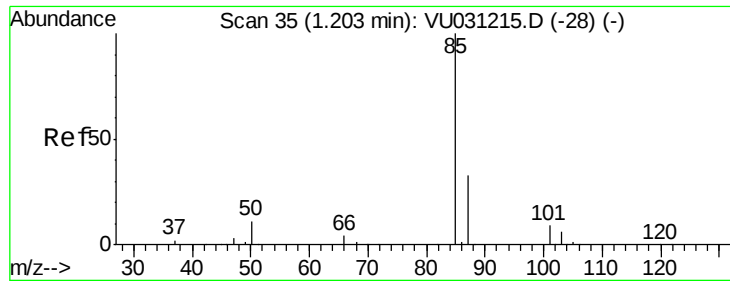
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041719\
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 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	830130	49.388	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	289634	49.544	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	196568	49.207	ug/L	100
46) Tetrachloroethene	8.22	164	154206	51.374	ug/L	100
48) 2-Hexanone	8.36	43	512742	90.794	ug/L	100
49) Dibromochloromethane	8.47	129	212954	50.150	ug/L	100
50) 1,2-Dibromoethane	8.58	107	208727	48.646	ug/L	100
51) Chlorobenzene	9.12	112	513690	49.419	ug/L	100
52) Ethylbenzene	9.25	91	893166	48.694	ug/L	100
53) m,p-Xylene	9.37	106	324610	50.435	ug/L	100
54) o-xylene	9.77	106	324731	50.666	ug/L	100
55) Styrene	9.79	104	562395	51.400	ug/L	100
56) Isopropylbenzene	10.16	105	843128	50.230	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	337393	47.373	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	260853	47.180	ug/L	100
61) Bromoform	9.95	173	159276	49.920	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	369245	48.761	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	378685	48.937	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	385970	50.472	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	72399	45.712	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	283094	50.788	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	240470	51.135	ug/L	100
69) Naphthalene	13.74	128	787309	51.871	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	255605	51.630	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 49.393 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

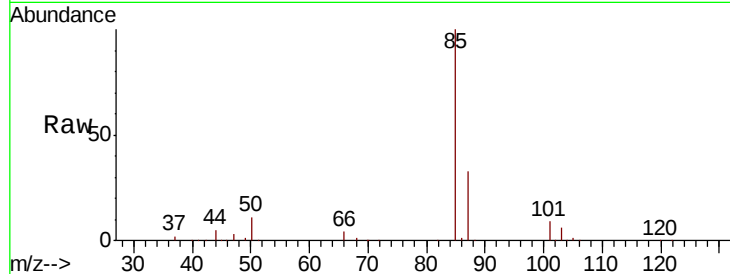
VSTD05049

Tgt Ion: 85 Resp: 233529

Ion Ratio Lower Upper

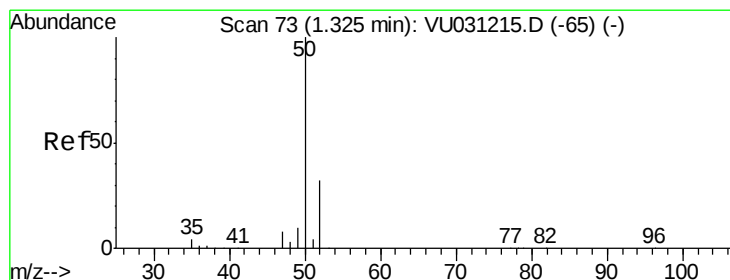
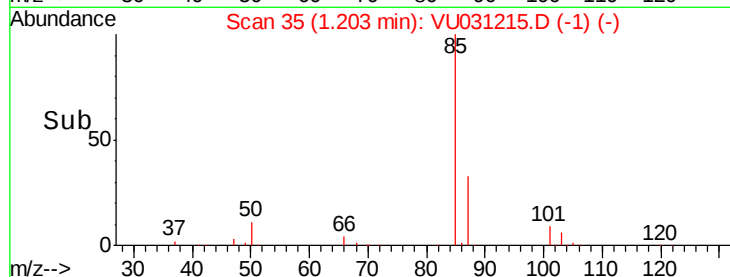
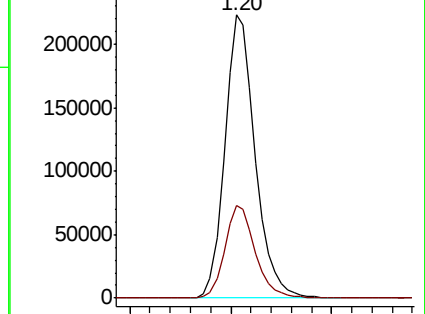
85 100

87 32.7 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU031215.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031215.D (-28) (-)



#3

Chloromethane

Concen: 45.294 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031215.D

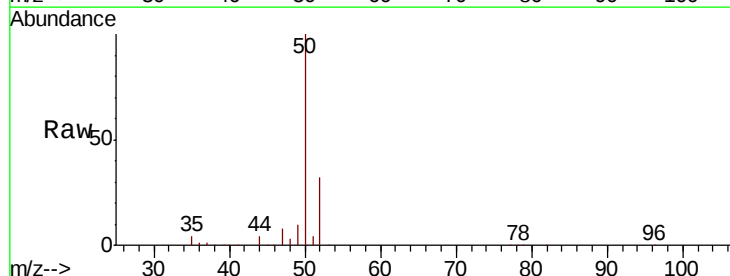
Acq: 16 Apr 2019 16:54

Tgt Ion: 50 Resp: 271531

Ion Ratio Lower Upper

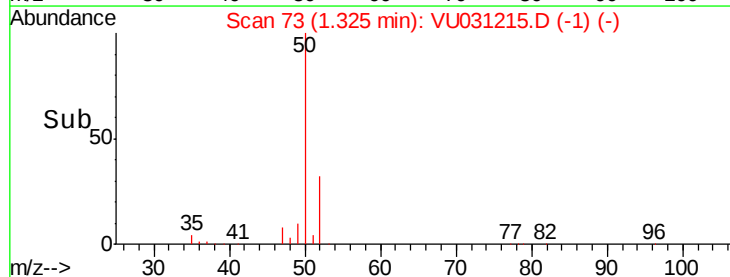
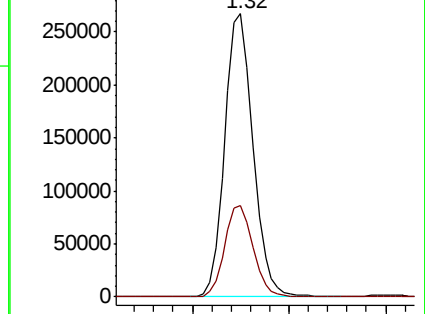
50 100

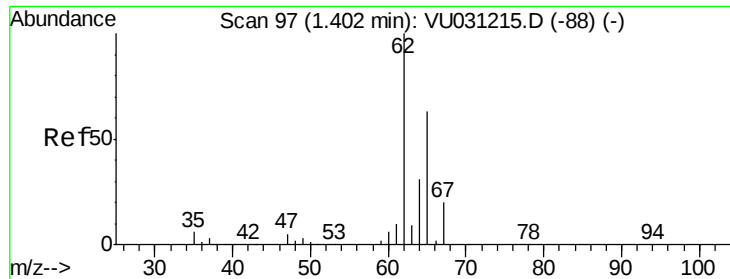
52 32.5 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VU031215.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031215.D (-65) (-)





#5

Vinyl chloride

Concen: 45.942 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

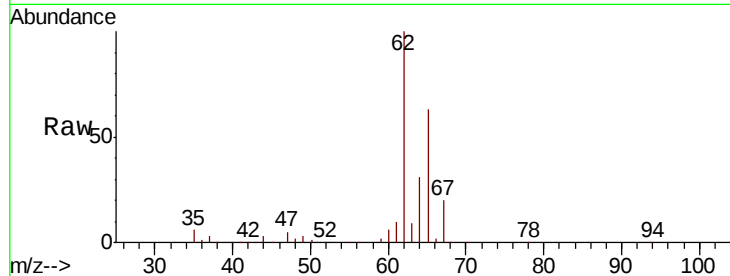
VSTD05049

Tgt Ion: 62 Resp: 265824

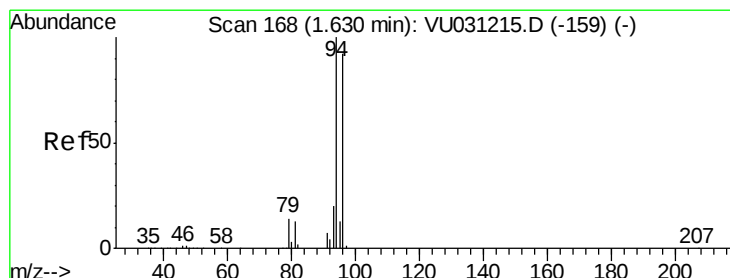
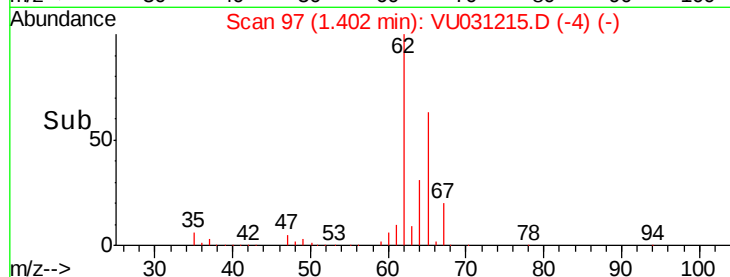
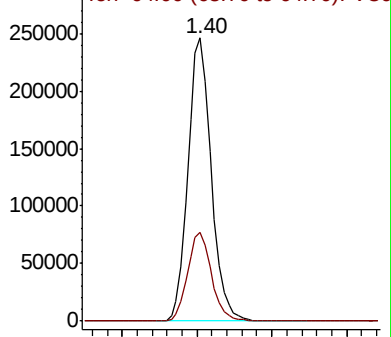
Ion Ratio Lower Upper

62 100

64 31.2 21.8 40.6



Abundance Ion 62.00 (61.70 to 62.70): VU031215.D (-88) (-)



#6

Bromomethane

Concen: 57.339 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031215.D

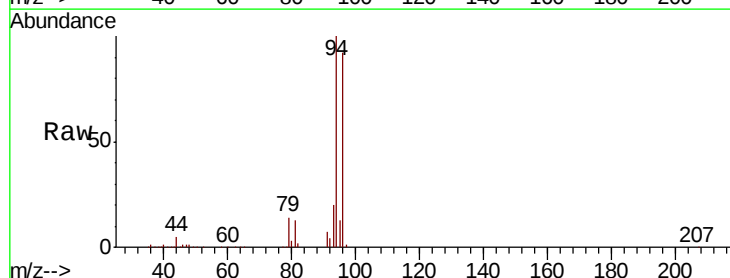
Acq: 16 Apr 2019 16:54

Tgt Ion: 94 Resp: 181976

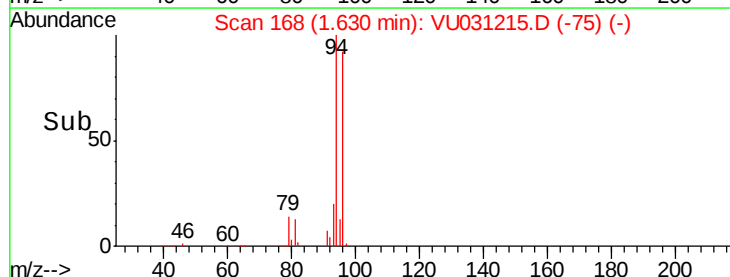
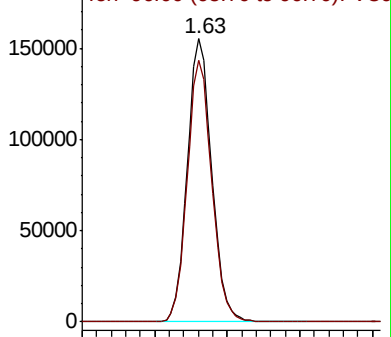
Ion Ratio Lower Upper

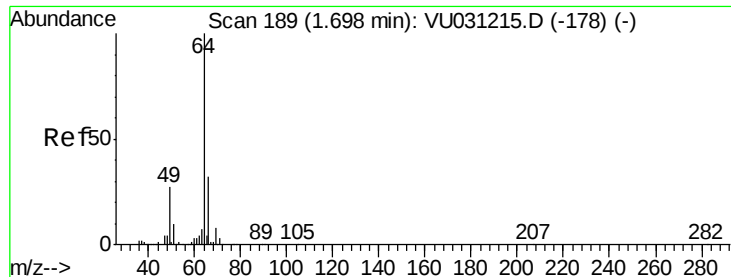
94 100

96 92.3 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU031215.D (-159) (-)

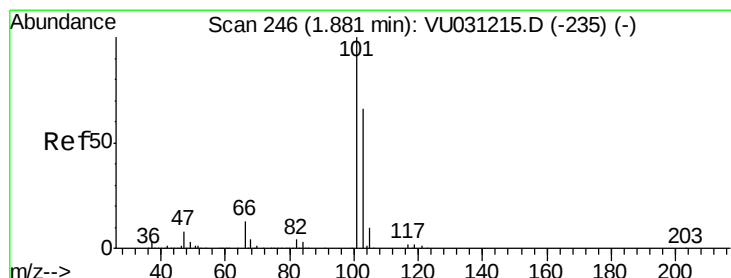
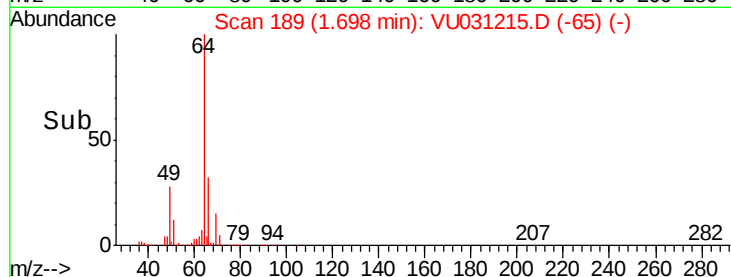
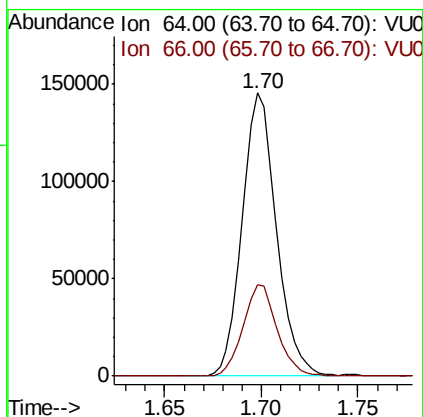
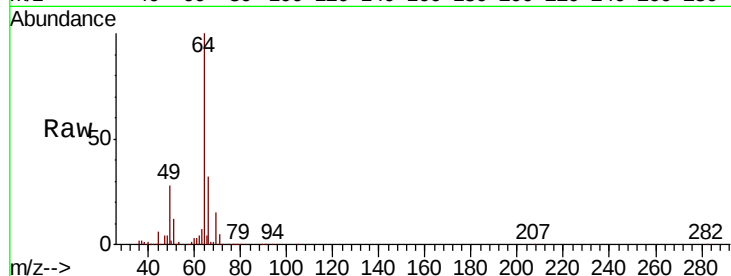




#8
Chloroethane
Concen: 52.377 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU031215.D
Acq: 16 Apr 2019 16:54

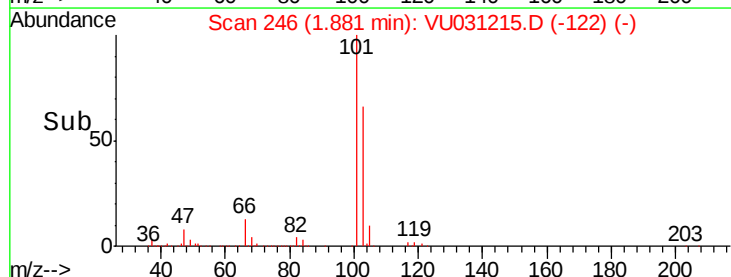
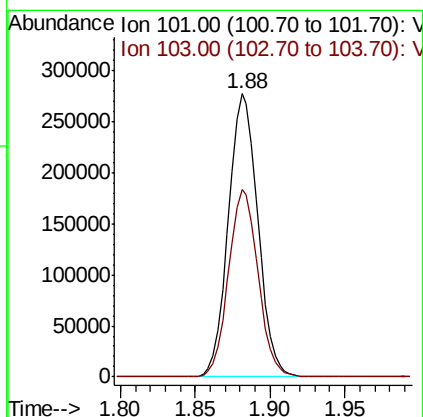
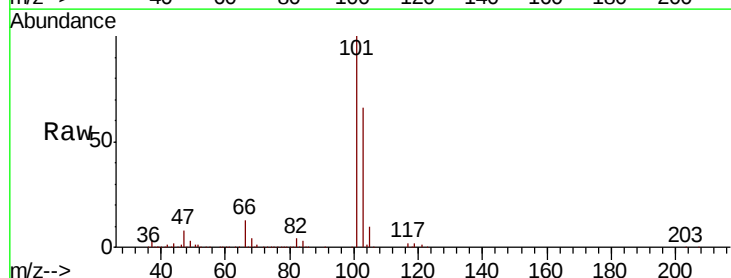
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

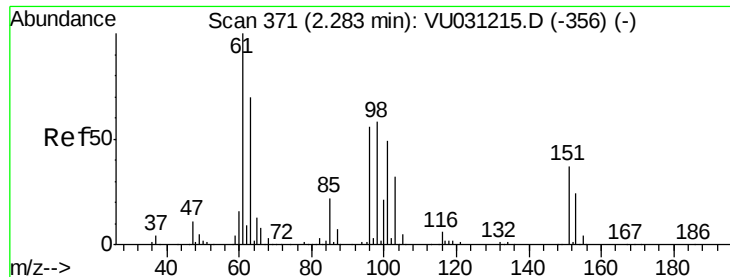
Tgt Ion: 64 Resp: 179117
Ion Ratio Lower Upper
64 100
66 32.3 22.6 42.0



#9
Trichlorofluoromethane
Concen: 54.198 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU031215.D
Acq: 16 Apr 2019 16:54

Tgt Ion: 101 Resp: 381762
Ion Ratio Lower Upper
101 100
103 66.3 53.0 79.6





#10

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

Concen: 50.669 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

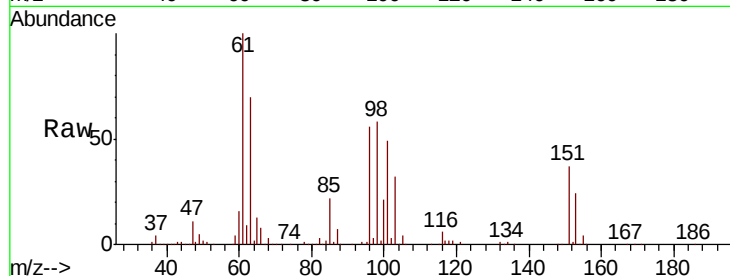
Tgt Ion: 101 Resp: 197044

Ion Ratio Lower Upper

101 100

85 44.2 35.4 53.0

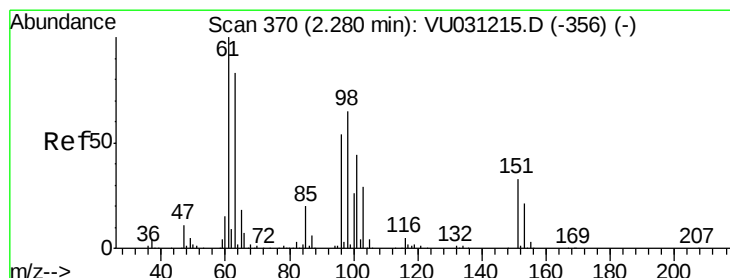
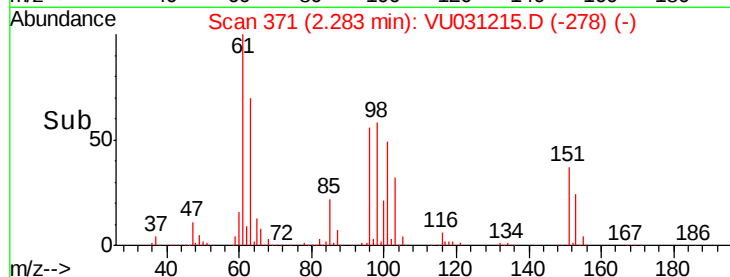
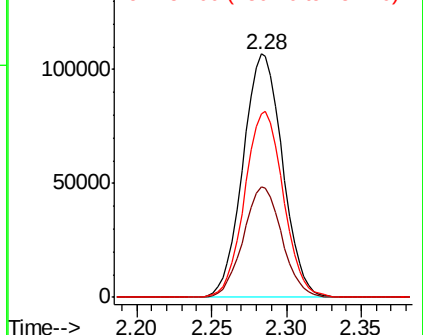
151 74.8 59.8 89.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 51.275 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

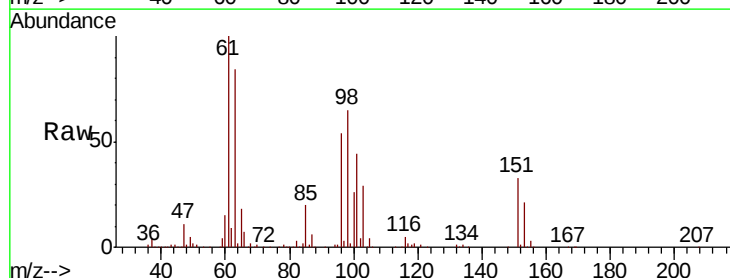
Tgt Ion: 96 Resp: 191412

Ion Ratio Lower Upper

96 100

61 186.3 130.4 242.2

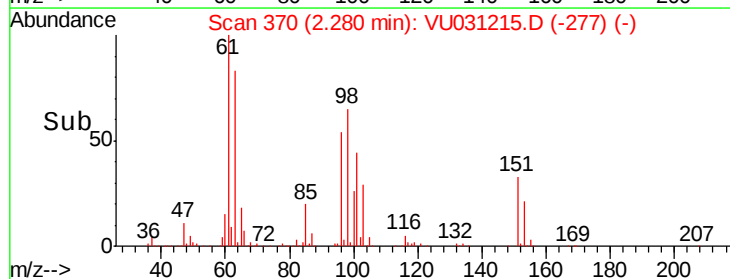
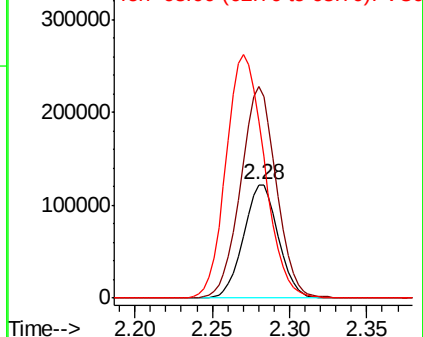
63 155.6 108.9 202.3

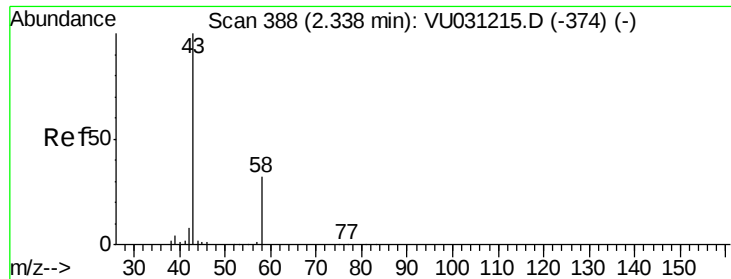


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 70.787 ug/L

RT: 2.34 min Scan# 388

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

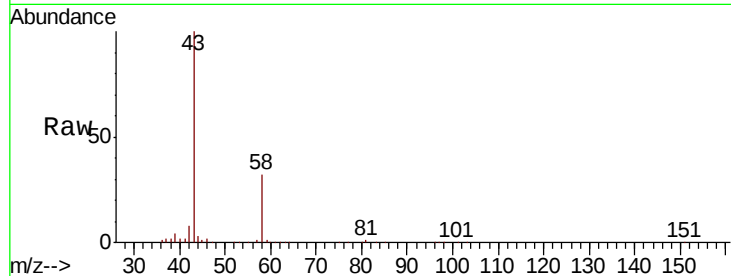
VSTD05049

Tgt Ion: 43 Resp: 256211

Ion Ratio Lower Upper

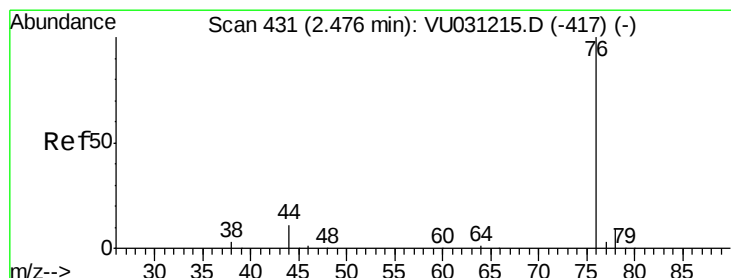
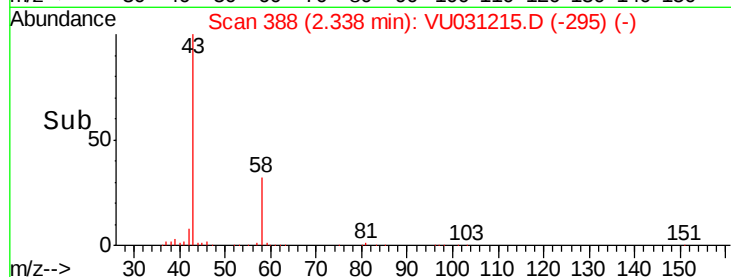
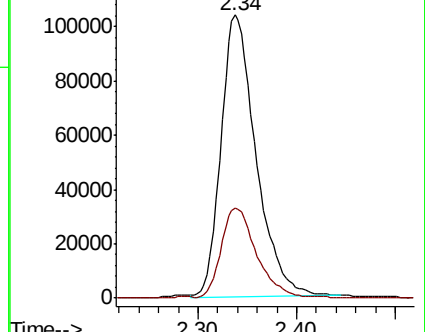
43 100

58 32.5 0.0 65.0



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

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



#14

Carbon disulfide

Concen: 46.403 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU031215.D

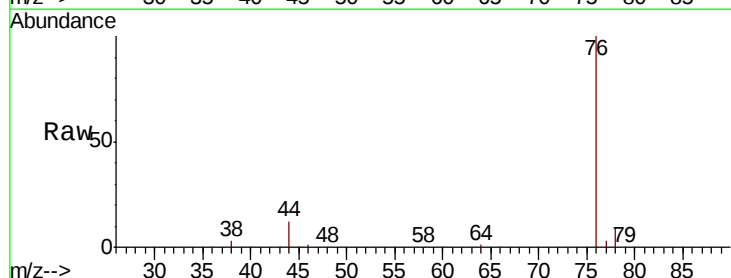
Acq: 16 Apr 2019 16:54

Tgt Ion: 76 Resp: 525967

Ion Ratio Lower Upper

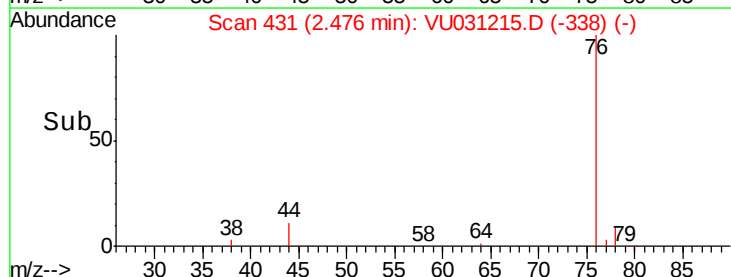
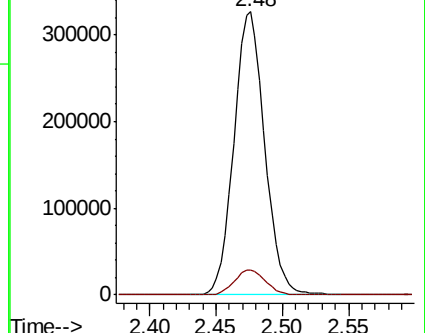
76 100

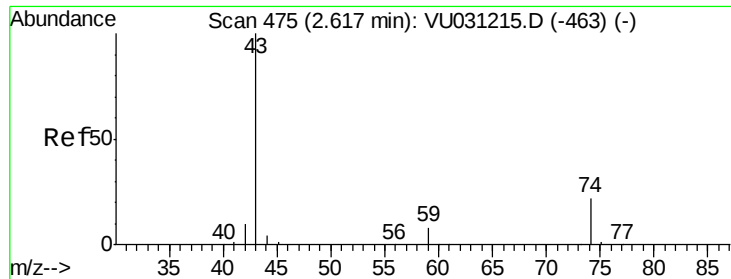
78 9.0 7.2 10.8



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

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

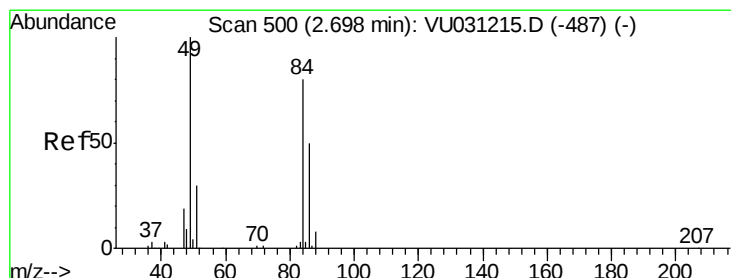
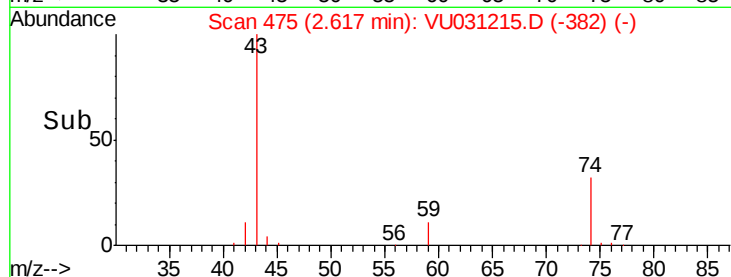
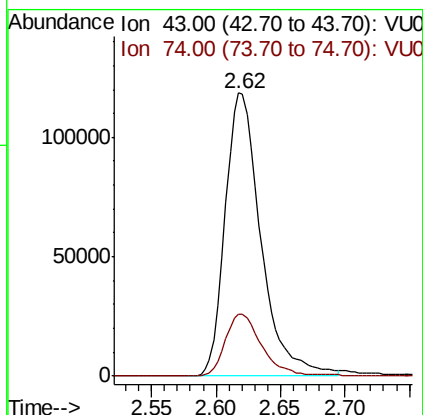
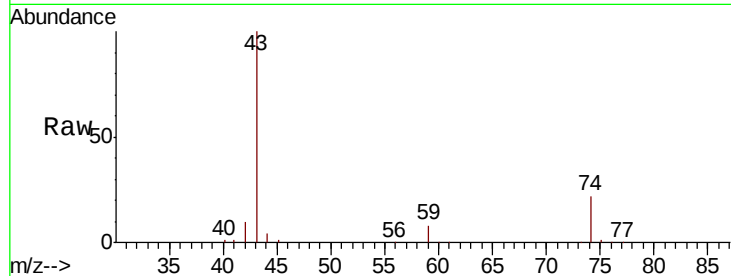




#15
Methyl Acetate
Concen: 39.852 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU031215.D
Acq: 16 Apr 2019 16:54

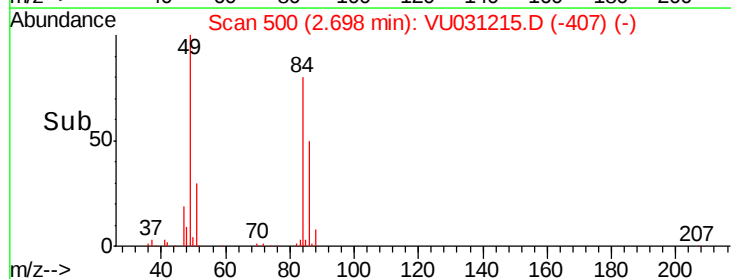
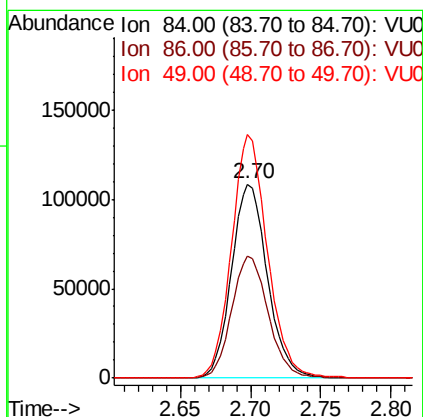
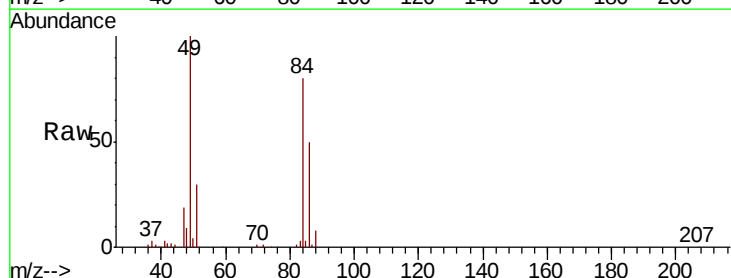
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

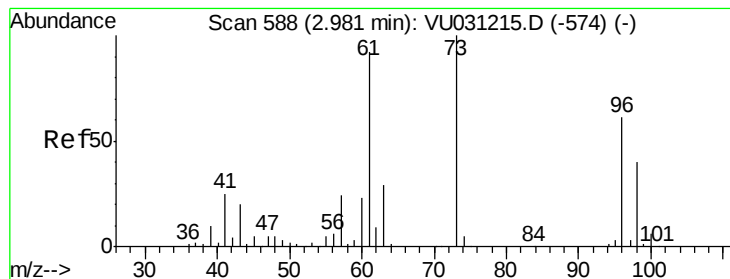
Tgt Ion: 43 Resp: 227402
Ion Ratio Lower Upper
43 100
74 22.9 18.3 27.5



#16
Methylene chloride
Concen: 44.233 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031215.D
Acq: 16 Apr 2019 16:54

Tgt Ion: 84 Resp: 193929
Ion Ratio Lower Upper
84 100
86 62.9 44.0 81.8
49 125.7 88.0 163.4





#17

trans-1,2-Dichloroethene

Concen: 44.460 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

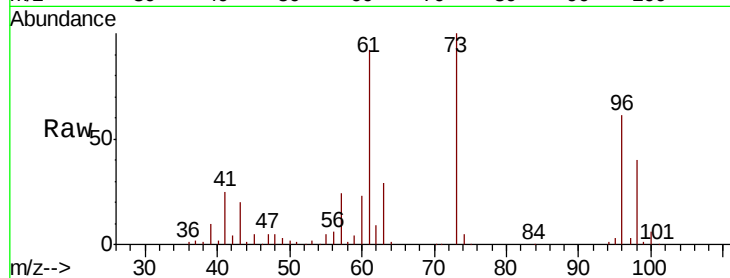
Tgt Ion: 96 Resp: 170844

Ion Ratio Lower Upper

96 100

61 150.7 105.5 195.9

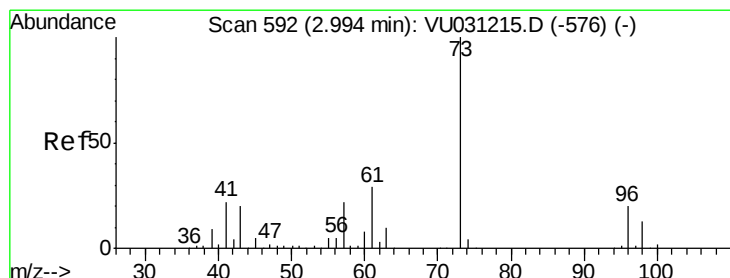
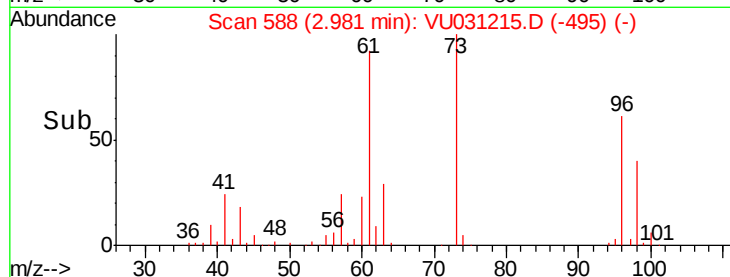
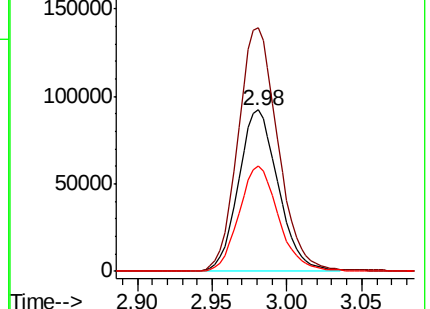
98 64.9 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU031215.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031215.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031215.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 43.682 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

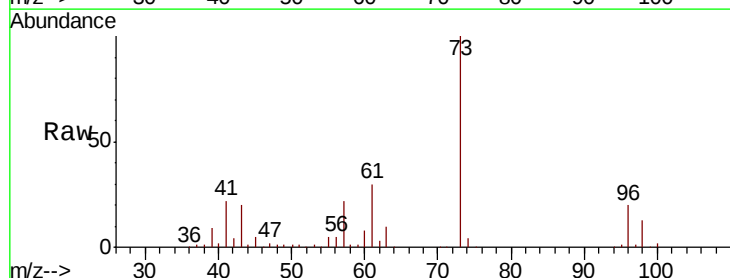
Tgt Ion: 73 Resp: 558990

Ion Ratio Lower Upper

73 100

43 19.5 15.6 23.4

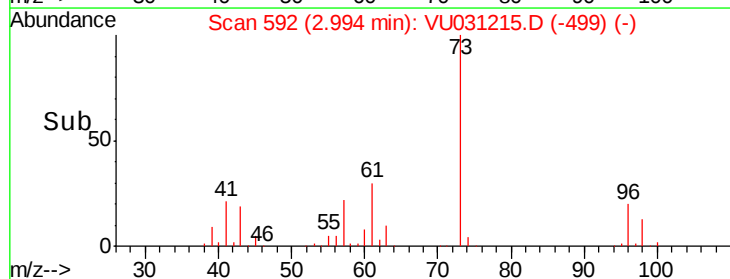
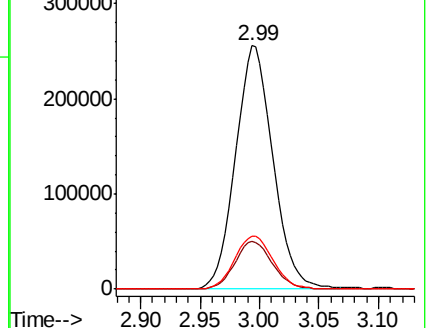
57 22.5 18.0 27.0

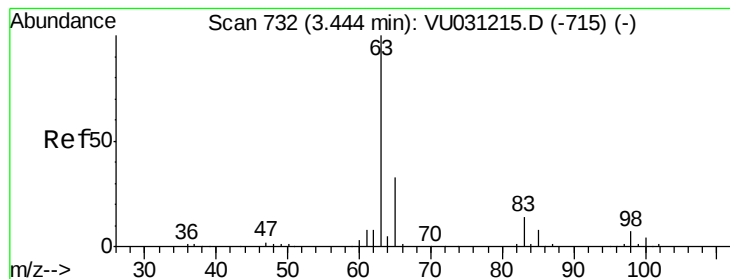


Abundance Ion 73.00 (72.70 to 73.70): VU031215.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU031215.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU031215.D (-576) (-)





#19

1,1-Dichloroethane

Concen: 44.254 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

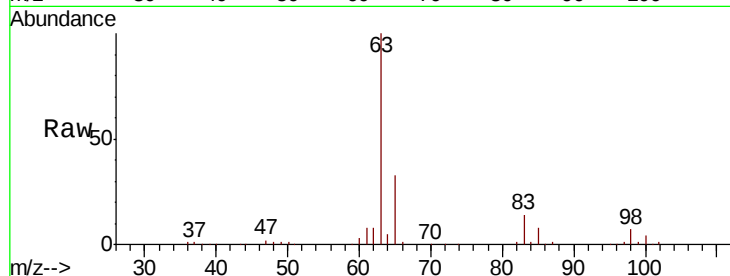
Tgt Ion: 63 Resp: 349671

Ion Ratio Lower Upper

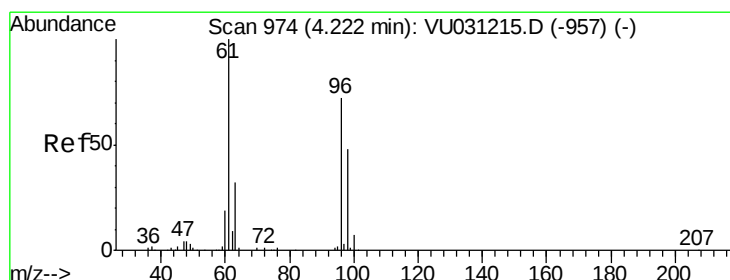
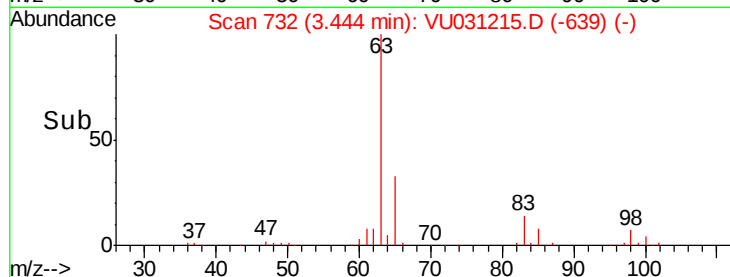
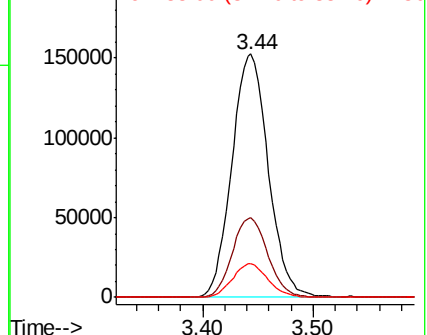
63 100

65 32.6 22.8 42.4

83 13.8 9.7 17.9



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



#20

cis-1,2-Dichloroethene

Concen: 50.637 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

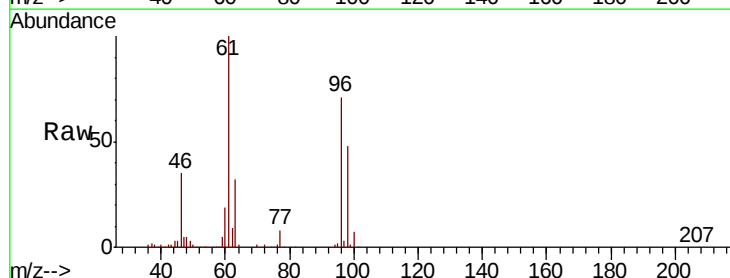
Tgt Ion: 96 Resp: 221499

Ion Ratio Lower Upper

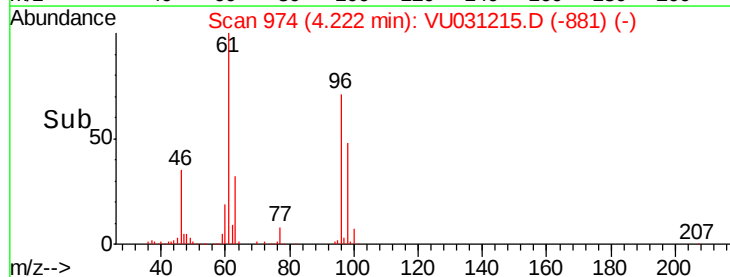
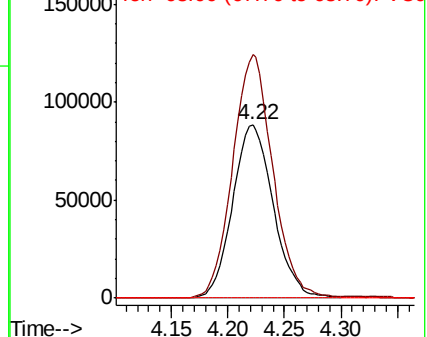
96 100

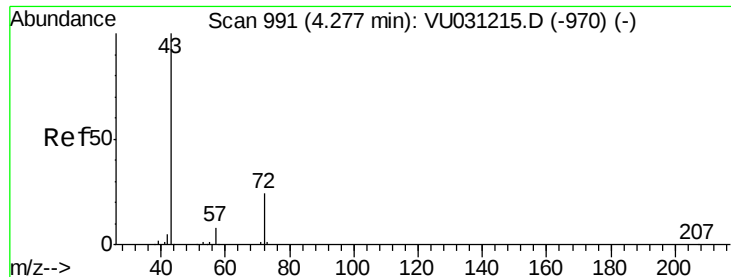
61 140.3 98.2 182.4

68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 91.442 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

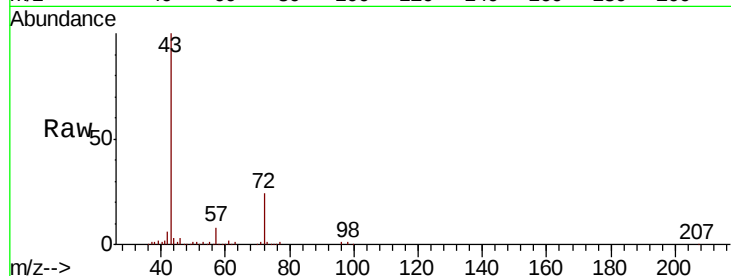
VSTD05049

Tgt Ion: 43 Resp: 399922

Ion Ratio Lower Upper

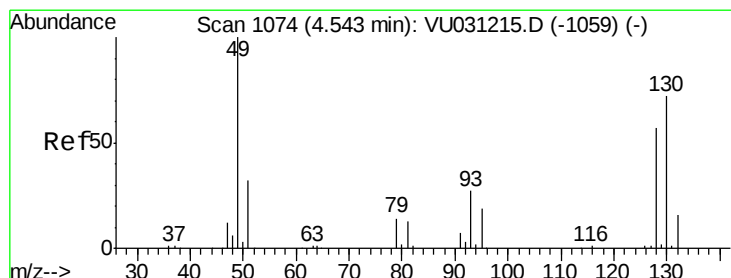
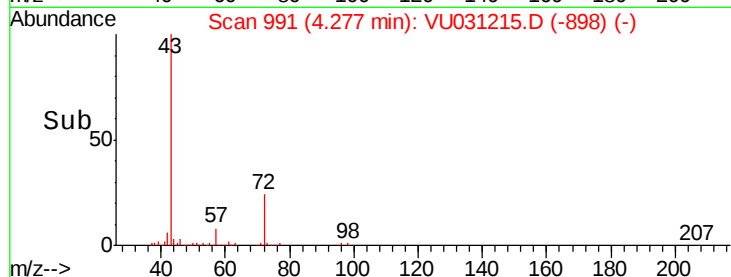
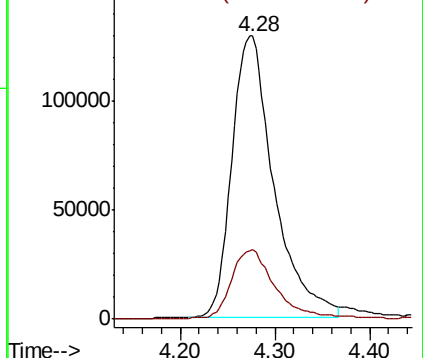
43 100

72 25.2 12.6 37.8



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

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



#23

Bromochloromethane

Concen: 52.531 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Tgt Ion: 128 Resp: 109182

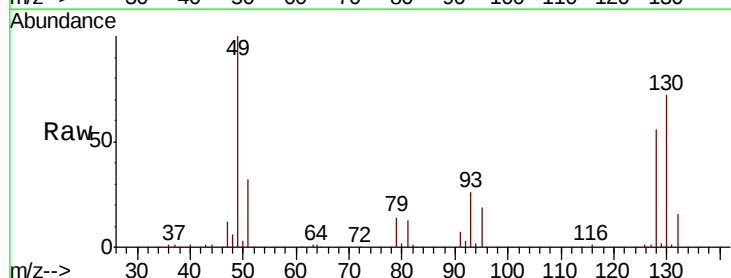
Ion Ratio Lower Upper

128 100

49 177.2 124.0 230.4

130 128.1 89.7 166.5

51 56.5 45.2 67.8

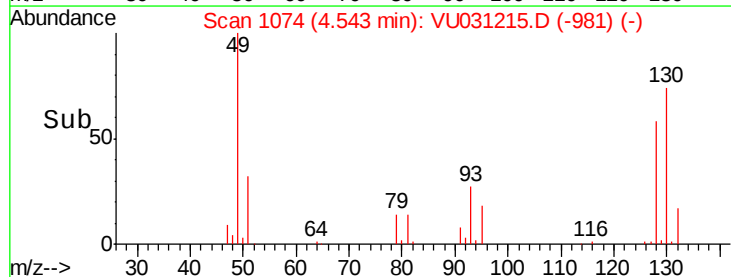
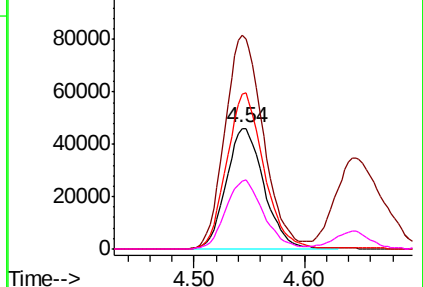


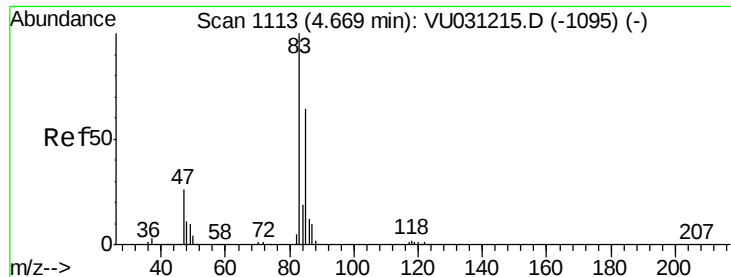
Abundance Ion 128.00 (127.70 to 128.70): VU031215.D (-1059) (-)

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

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

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





#25

Chloroform

Concen: 48.488 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

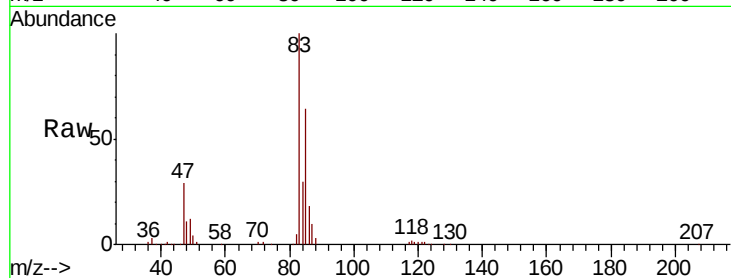
VSTD05049

Tgt Ion: 83 Resp: 394335

Ion Ratio Lower Upper

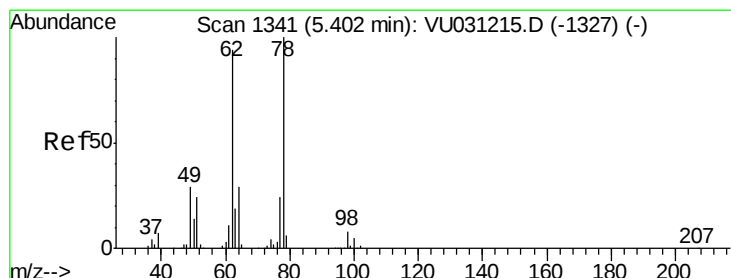
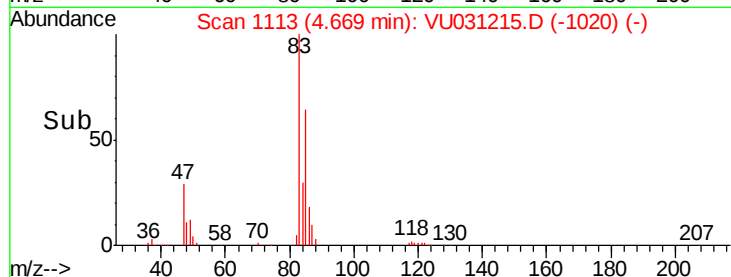
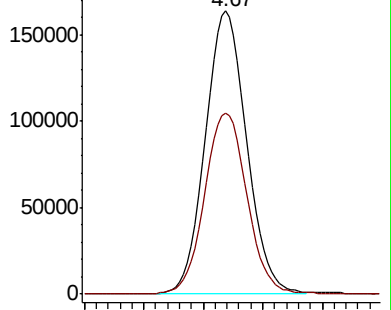
83 100

85 64.0 44.8 83.2



Abundance Ion 83.00 (82.70 to 83.70): VU031215.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU031215.D (-1095) (-)



#27

1,2-Dichloroethane

Concen: 47.418 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU031215.D

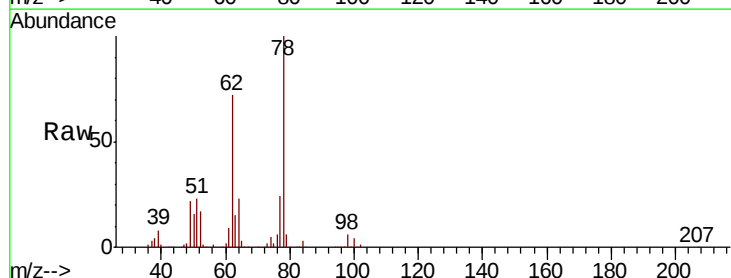
Acq: 16 Apr 2019 16:54

Tgt Ion: 62 Resp: 292676

Ion Ratio Lower Upper

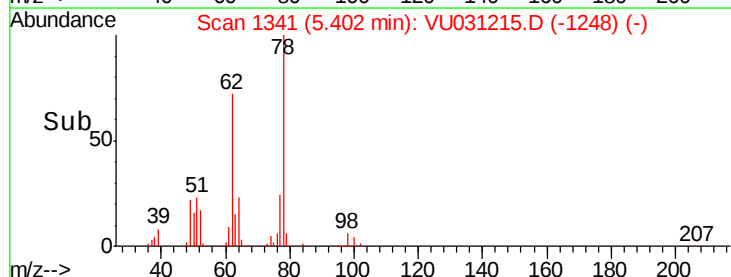
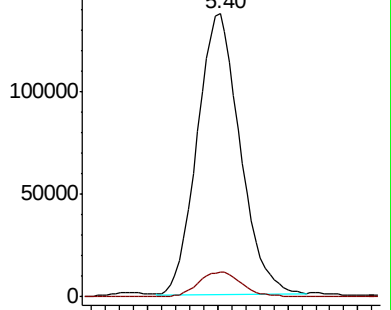
62 100

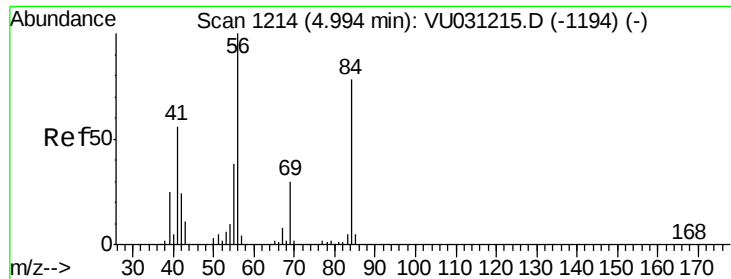
98 8.8 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU031215.D (-1327) (-)

Ion 98.00 (97.70 to 98.70): VU031215.D (-1327) (-)

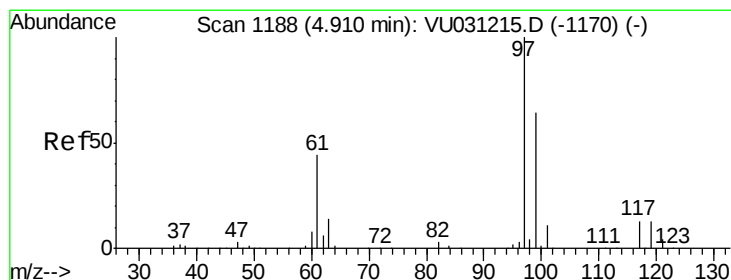
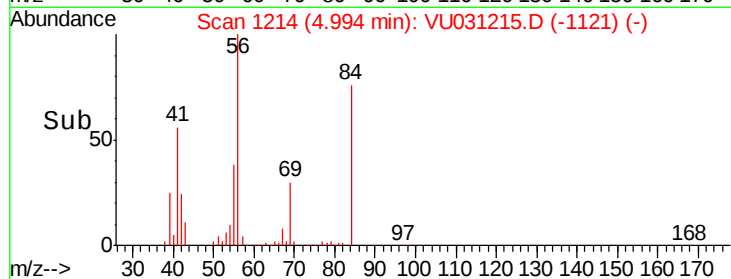
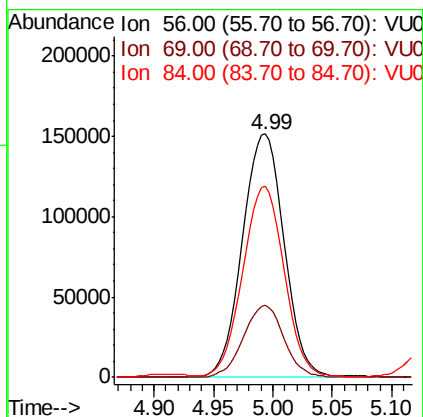
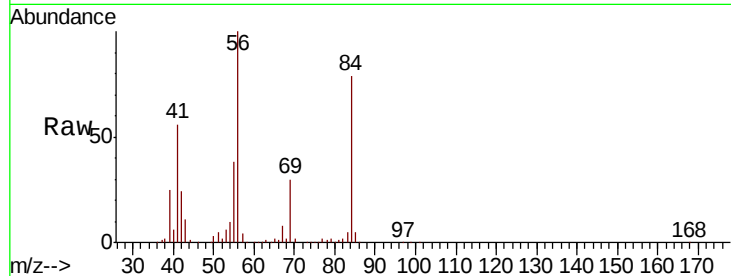




#29
Cyclohexane
Concen: 50.835 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU031215.D
Acq: 16 Apr 2019 16:54

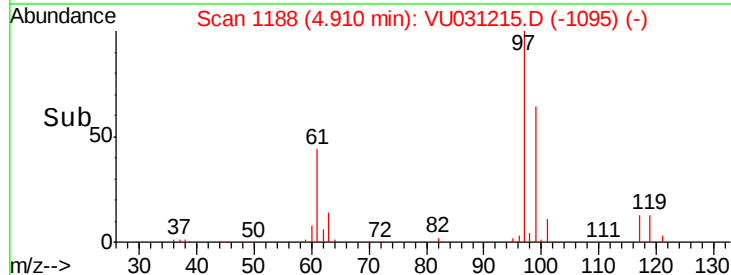
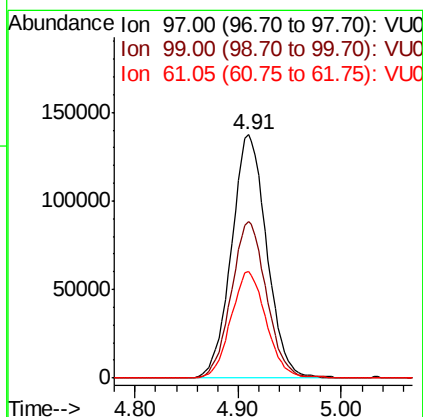
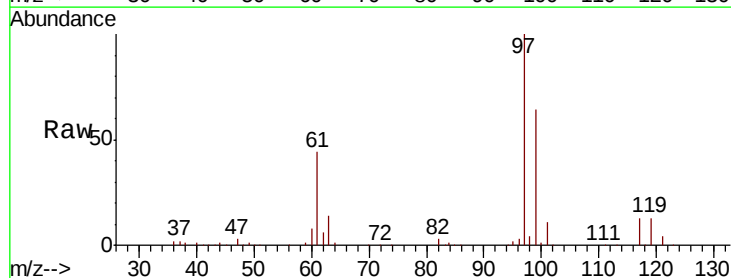
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

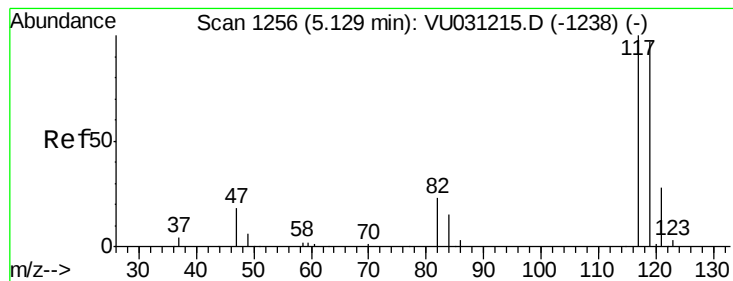
Tgt Ion: 56 Resp: 368726
Ion Ratio Lower Upper
56 100
69 28.8 23.0 34.6
84 77.2 61.8 92.6



#30
1,1,1-Trichloroethane
Concen: 52.113 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031215.D
Acq: 16 Apr 2019 16:54

Tgt Ion: 97 Resp: 326611
Ion Ratio Lower Upper
97 100
99 64.3 51.4 77.2
61 43.7 35.0 52.4





#31

Carbon tetrachloride

Concen: 52.353 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

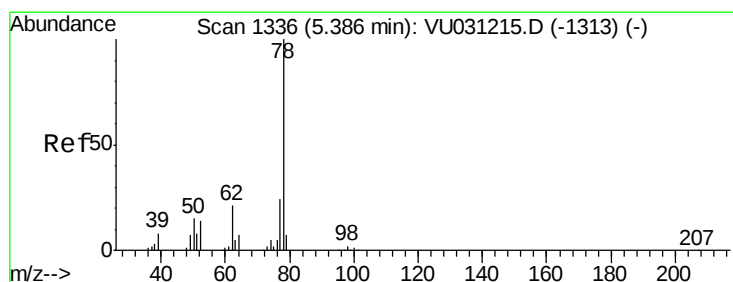
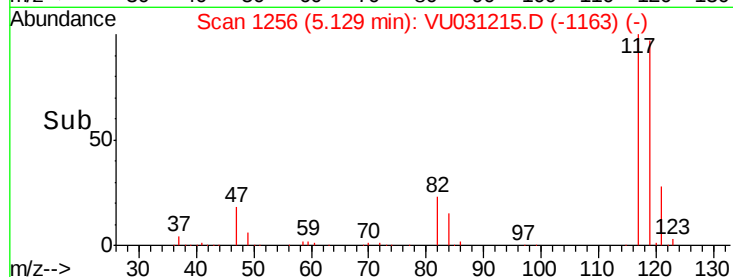
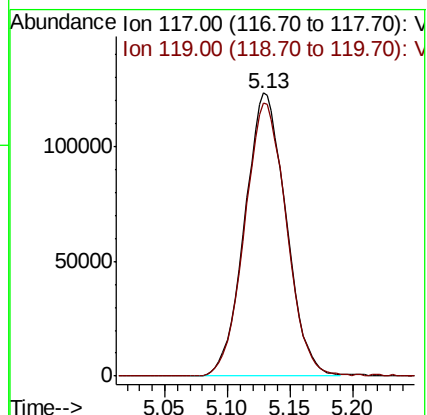
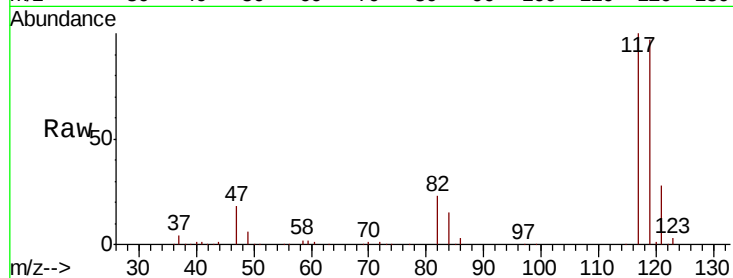
VSTD05049

Tgt Ion:117 Resp: 283006

Ion Ratio Lower Upper

117 100

119 97.5 78.0 117.0



#33

Benzene

Concen: 50.484 ug/L

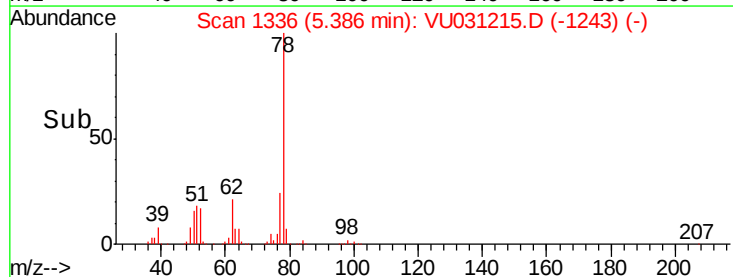
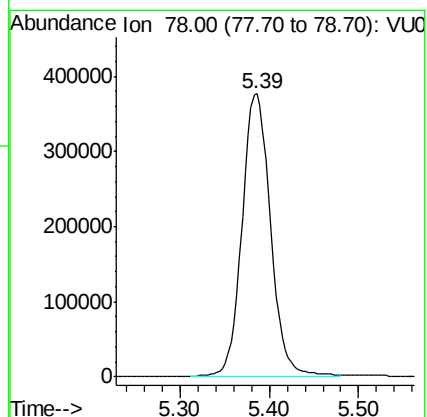
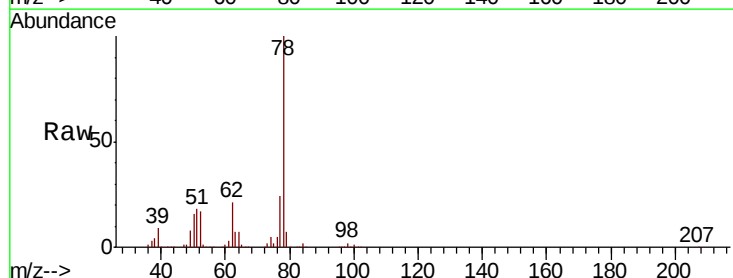
RT: 5.39 min Scan# 1336

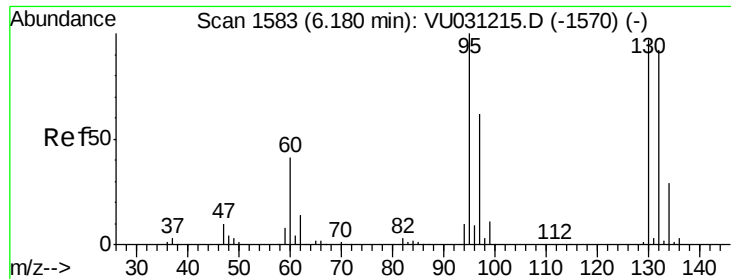
Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Tgt Ion: 78 Resp: 840117





#34

Trichloroethene

Concen: 49.782 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tgt Ion: 95 Resp: 203253

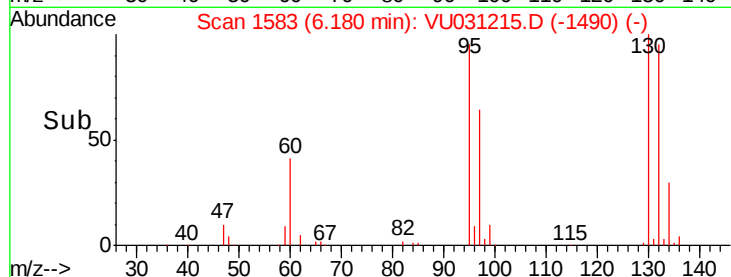
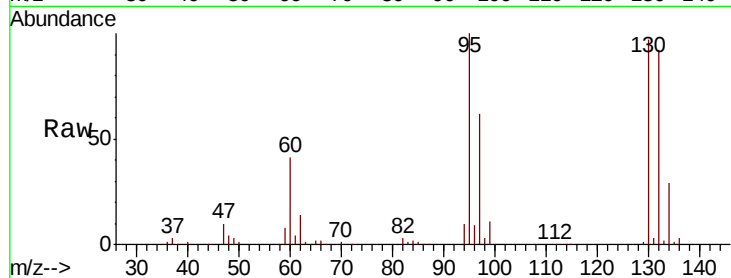
Ion Ratio Lower Upper

95 100

97 62.3 43.6 81.0

132 92.1 64.5 119.7

130 97.1 68.0 126.2



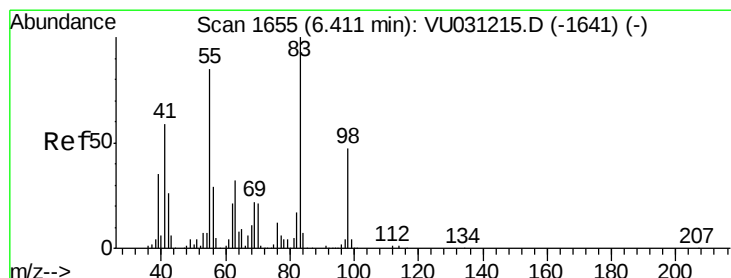
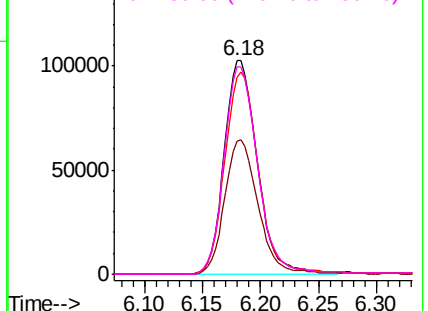
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.412 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

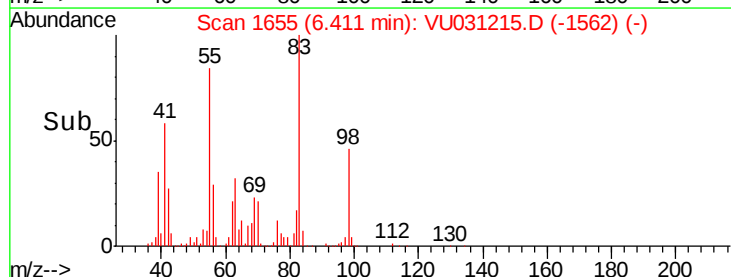
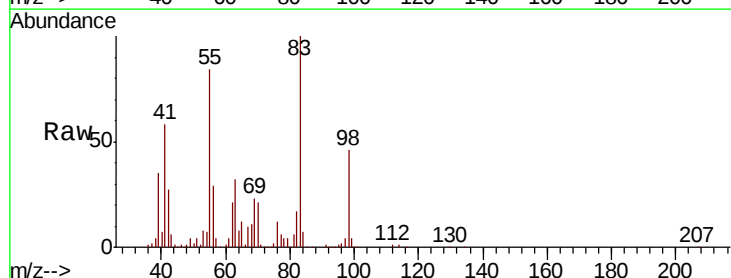
Tgt Ion: 83 Resp: 301946

Ion Ratio Lower Upper

83 100

55 83.7 67.0 100.4

98 46.1 36.9 55.3

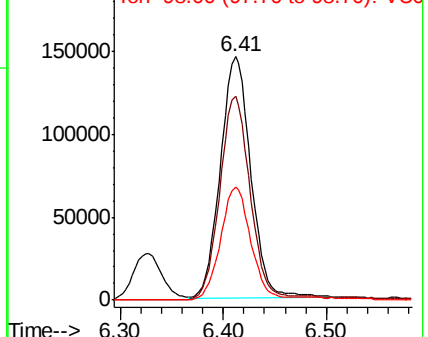


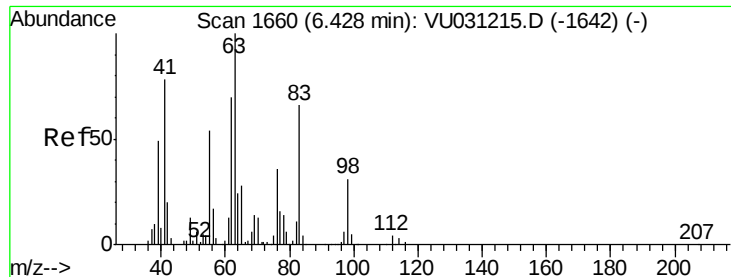
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 46.262 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

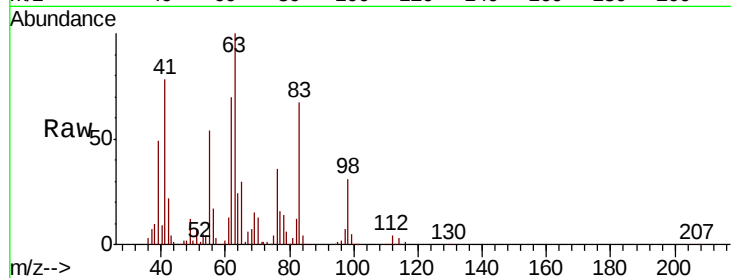
VSTD05049

Tgt Ion: 63 Resp: 214264

Ion Ratio Lower Upper

63 100

112 4.1 3.3 4.9



Abundance Ion 63.00 (62.70 to 63.70): VU031215.D (-1642) (-)

Ion 112.00 (111.70 to 112.70): VU031215.D (-1642) (-)

6.43

120000

100000

80000

60000

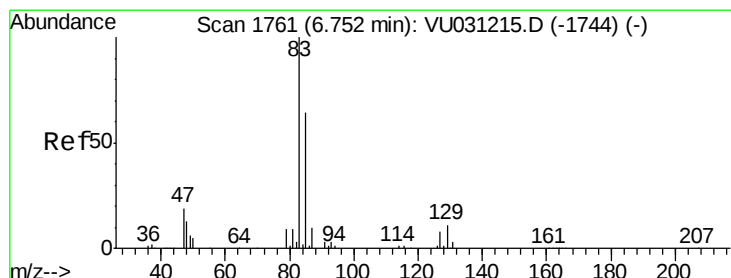
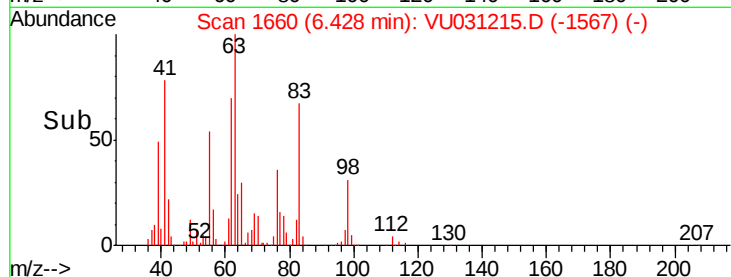
40000

20000

0

6.35 6.40 6.45 6.50

Time-->



#38

Bromodichloromethane

Concen: 48.820 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

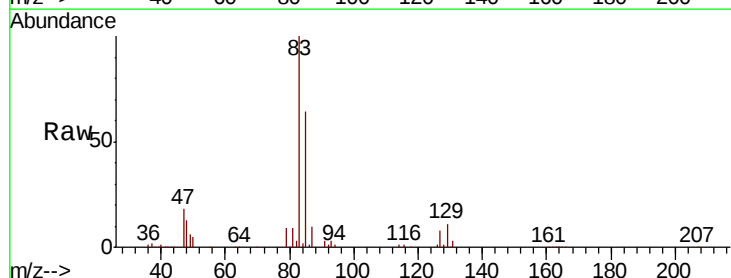
Tgt Ion: 83 Resp: 276254

Ion Ratio Lower Upper

83 100

85 63.6 44.5 82.7

127 8.2 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VU031215.D (-1744) (-)

Ion 85.00 (84.70 to 85.70): VU031215.D (-1744) (-)

Ion 127.00 (126.70 to 127.70): VU031215.D (-1744) (-)

6.75

200000

150000

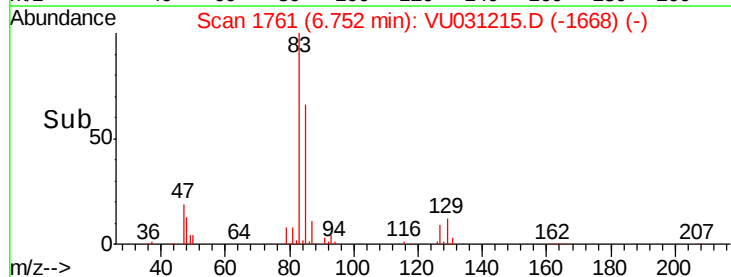
100000

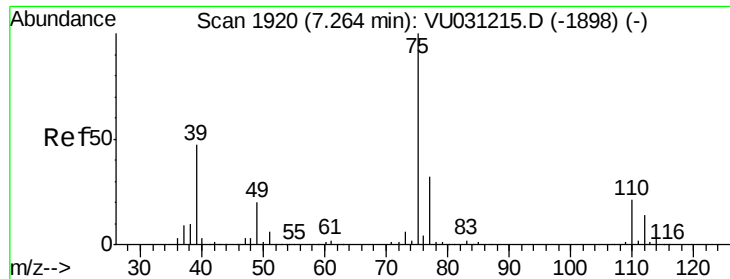
50000

0

6.65 6.70 6.75 6.80

Time-->

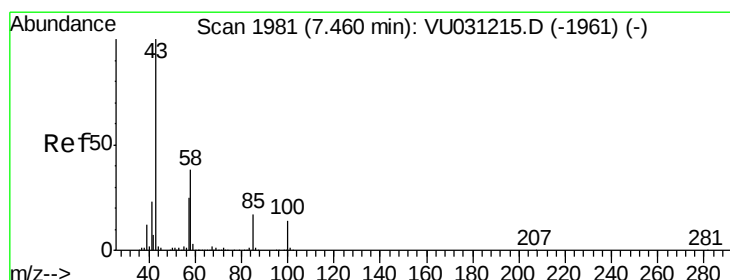
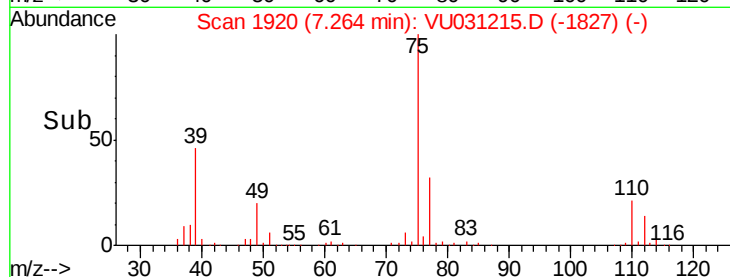
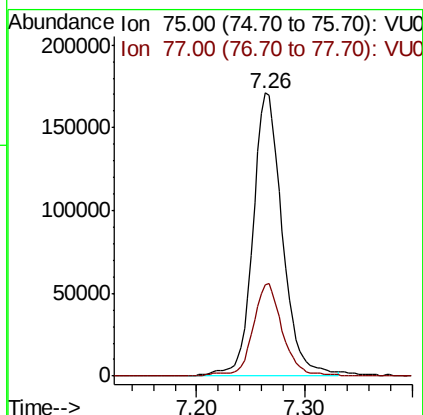
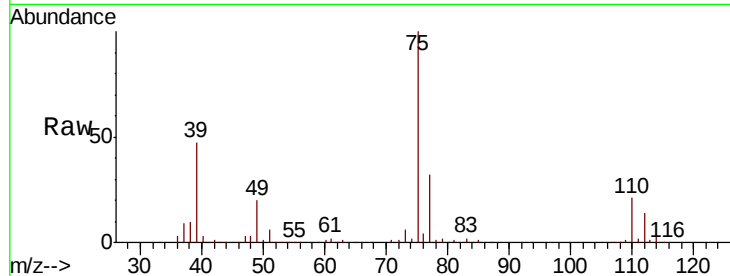




#39
 cis-1,3-Dichloropropene
 Concen: 48.985 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU031215.D
 Acq: 16 Apr 2019 16:54

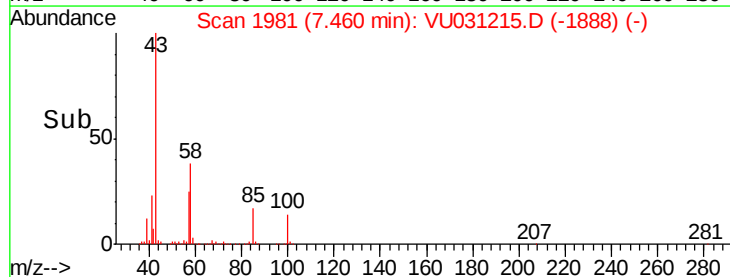
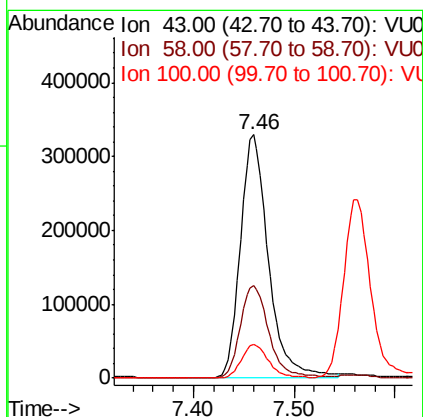
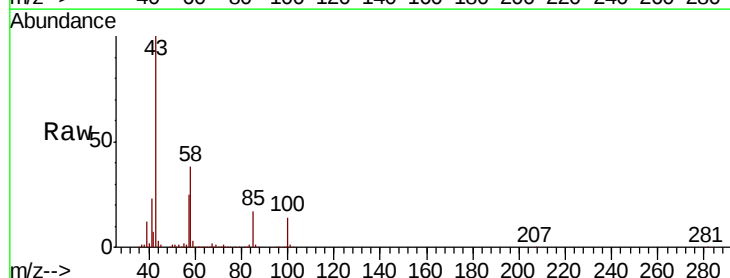
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

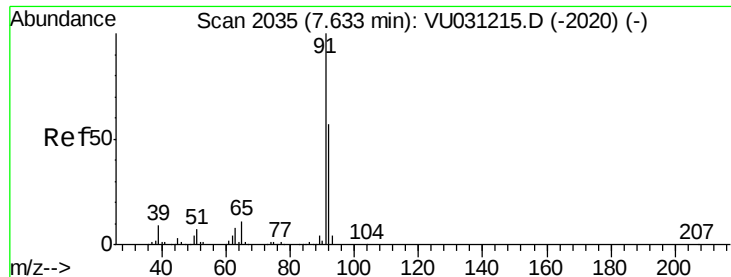
Tgt Ion: 75 Resp: 323820
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 87.613 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU031215.D
 Acq: 16 Apr 2019 16:54

Tgt Ion: 43 Resp: 636710
 Ion Ratio Lower Upper
 43 100
 58 38.7 31.0 46.4
 100 13.3 10.6 16.0





#42

Toluene

Concen: 49.388 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

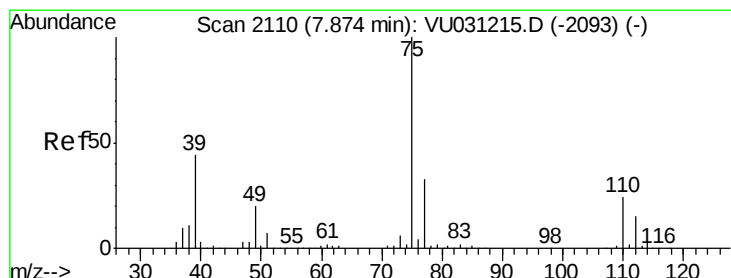
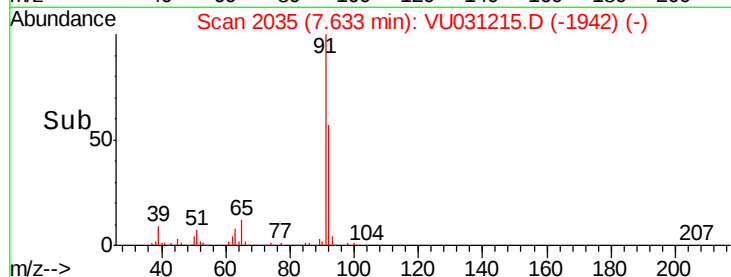
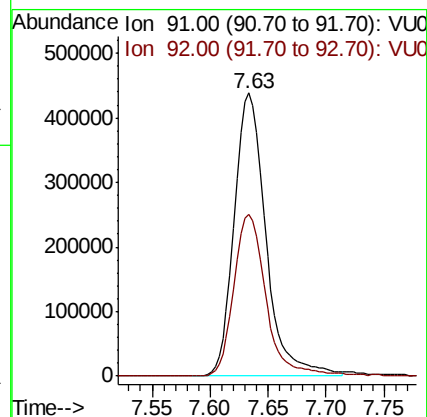
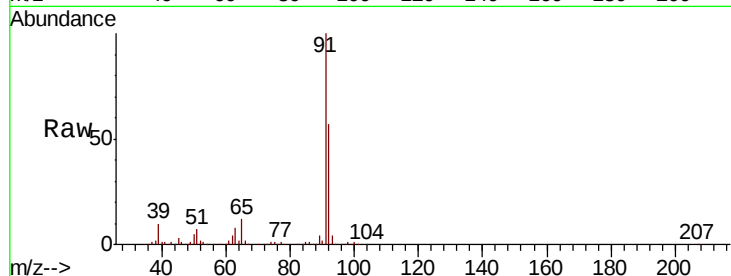
VSTD05049

Tgt Ion: 91 Resp: 830130

Ion Ratio Lower Upper

91 100

92 57.3 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 49.544 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU031215.D

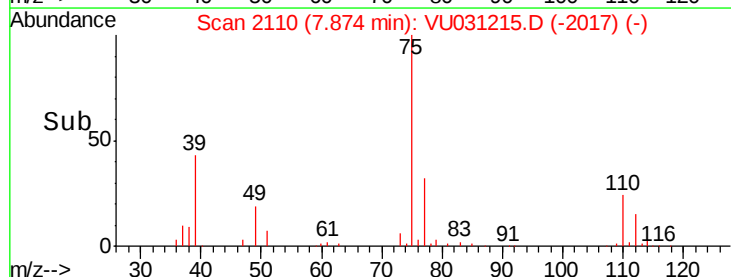
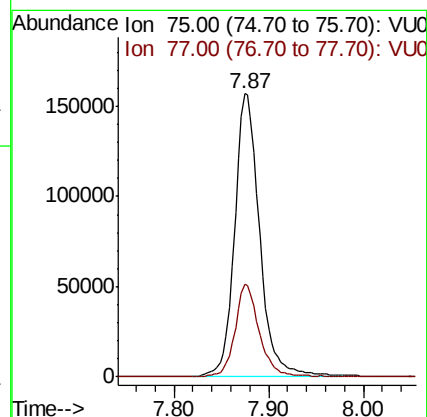
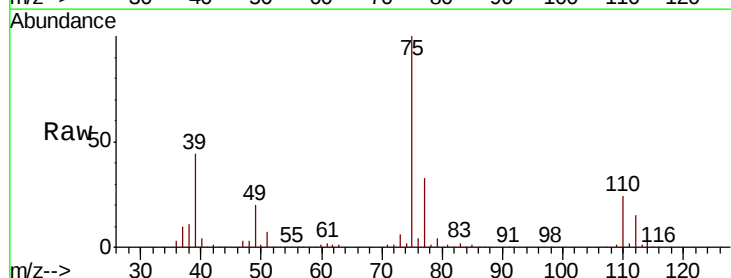
Acq: 16 Apr 2019 16:54

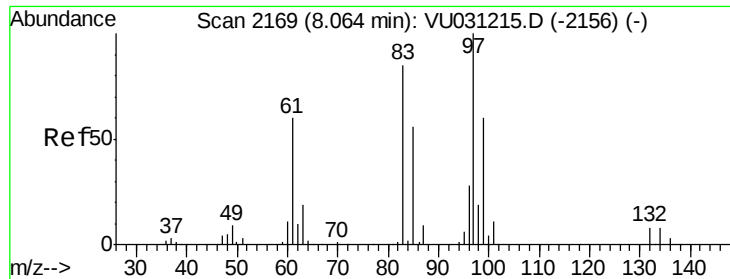
Tgt Ion: 75 Resp: 289634

Ion Ratio Lower Upper

75 100

77 32.6 22.8 42.4

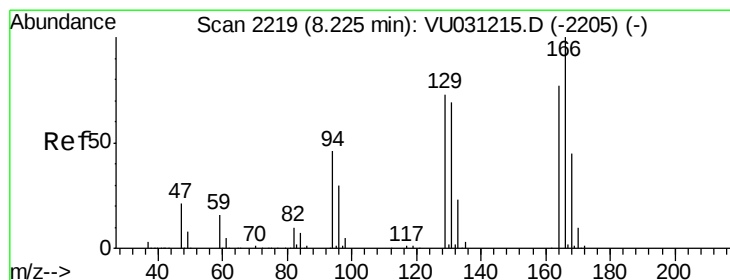
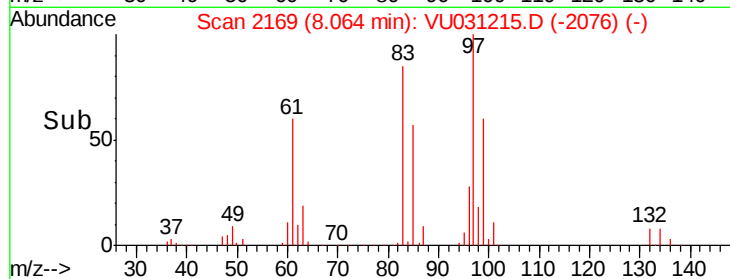
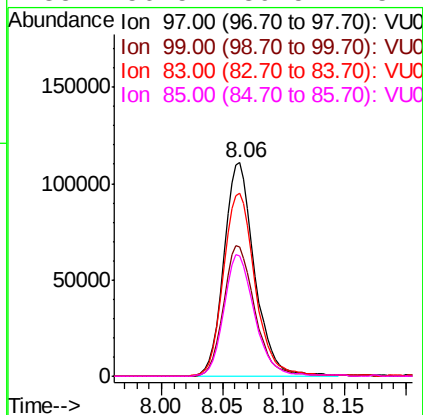
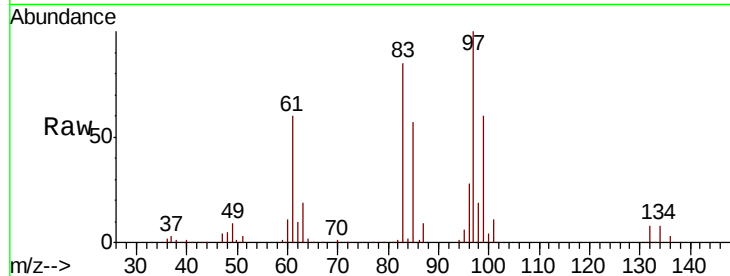




#45
 1,1,2-Trichloroethane
 Concen: 49.207 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031215.D
 Acq: 16 Apr 2019 16:54

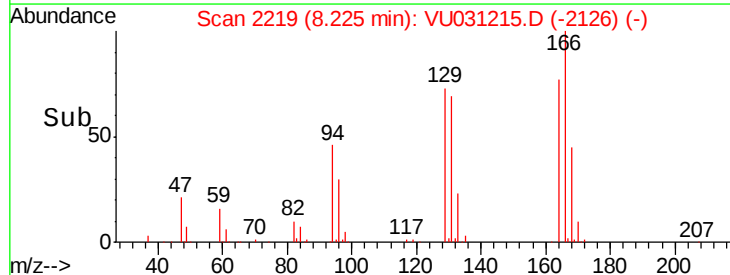
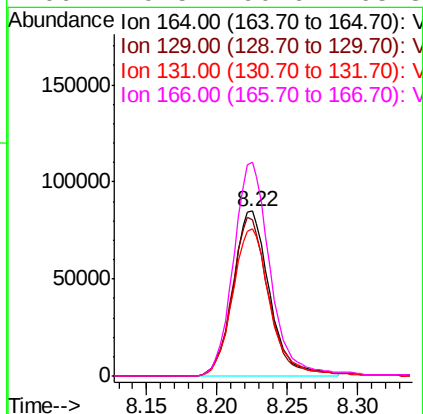
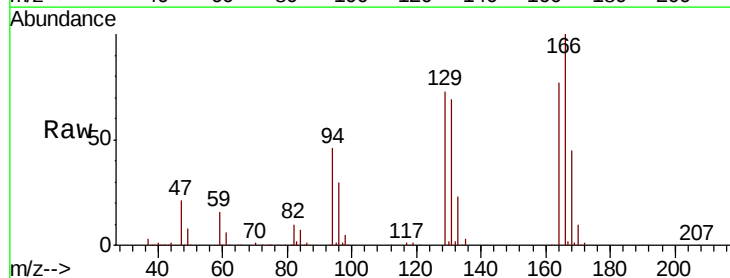
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

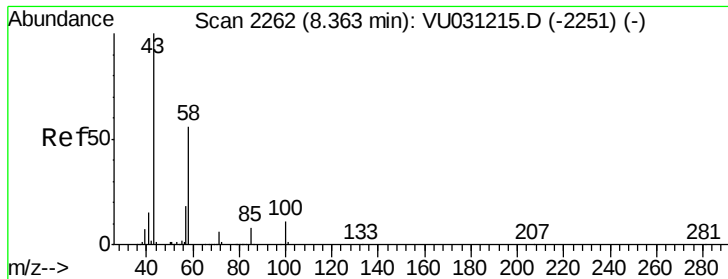
Tgt Ion:	97	Resp:	196568
Ion	Ratio	Lower	Upper
97	100		
99	60.3	42.2	78.4
83	85.5	59.8	111.1
85	56.5	39.5	73.4



#46
 Tetrachloroethene
 Concen: 51.374 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031215.D
 Acq: 16 Apr 2019 16:54

Tgt Ion:	164	Resp:	154206
Ion	Ratio	Lower	Upper
164	100		
129	95.0	66.5	123.5
131	89.0	62.3	115.7
166	129.5	90.6	168.3

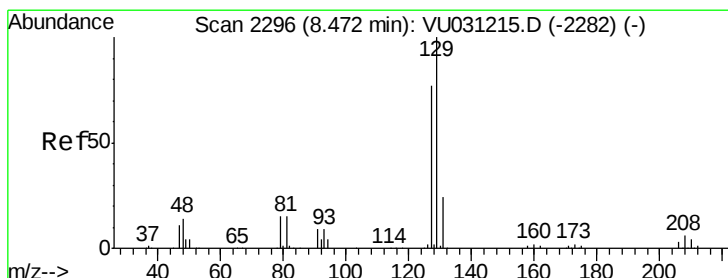
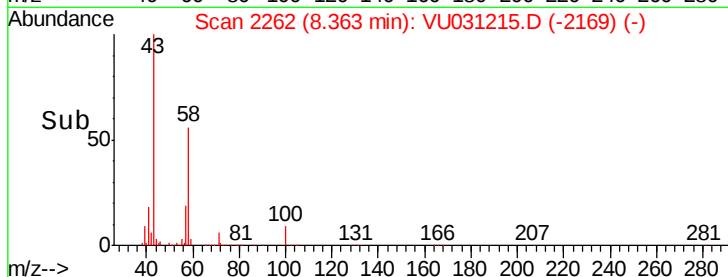
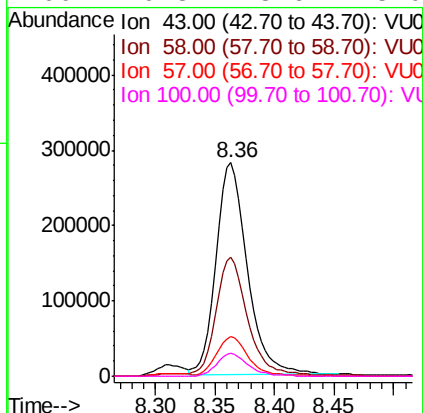
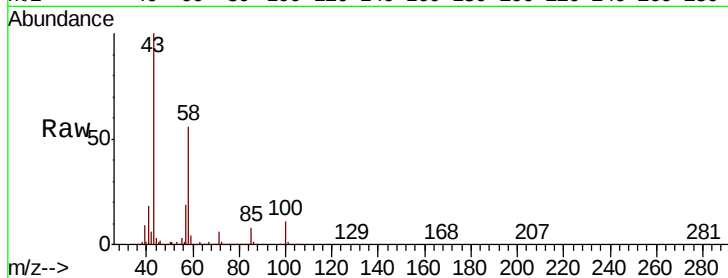




#48
2-Hexanone
Concen: 90.794 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU031215.D
Acq: 16 Apr 2019 16:54

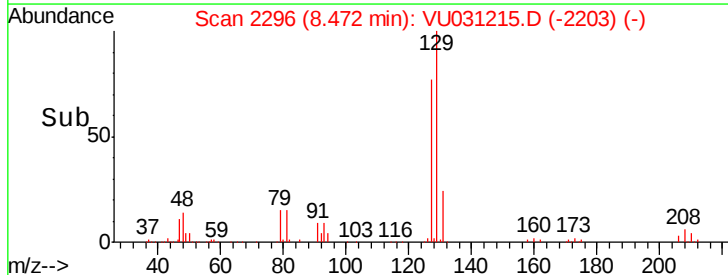
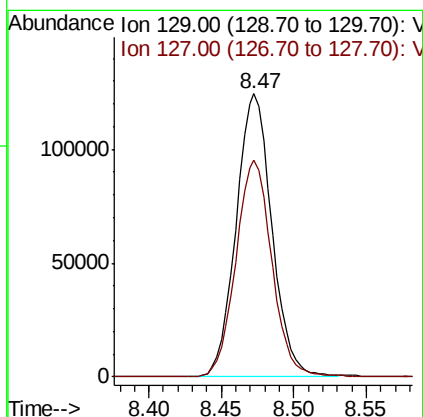
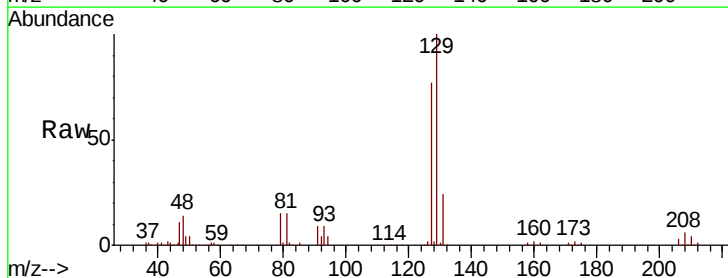
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

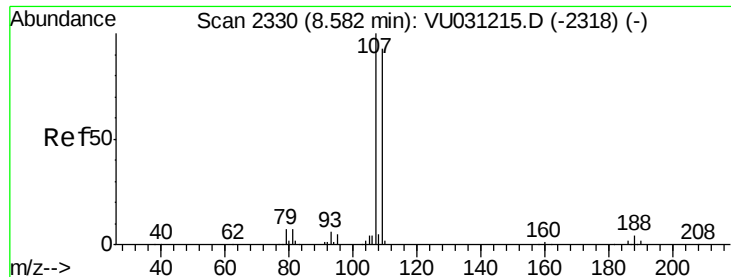
Tgt Ion:	43	Resp:	512742
Ion	Ratio	Lower	Upper
43	100		
58	56.0	44.9	67.3
57	18.9	15.1	22.7
100	10.8	8.6	13.0



#49
Dibromochloromethane
Concen: 50.150 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031215.D
Acq: 16 Apr 2019 16:54

Tgt Ion:	129	Resp:	212954
Ion	Ratio	Lower	Upper
129	100		
127	76.6	53.6	99.6





#50

1,2-Dibromoethane

Concen: 48.646 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

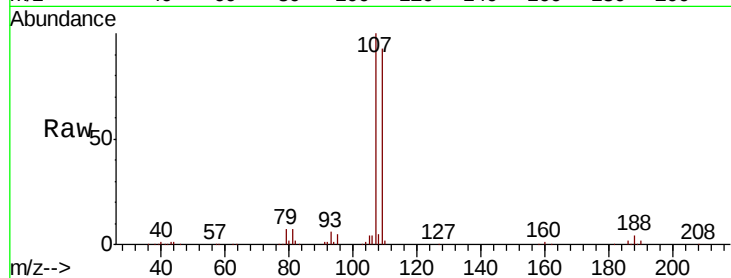
Tgt Ion:107 Resp: 208727

Ion Ratio Lower Upper

107 100

109 92.9 65.0 120.8

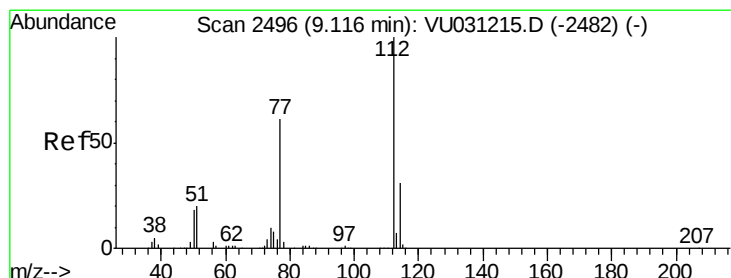
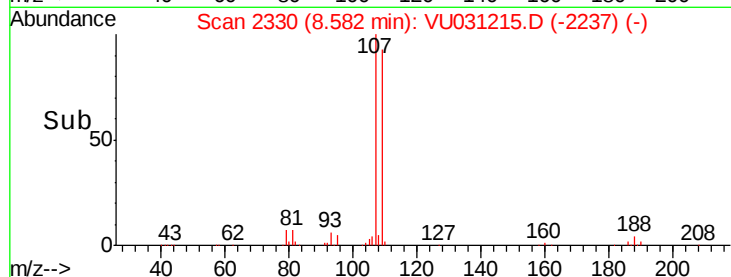
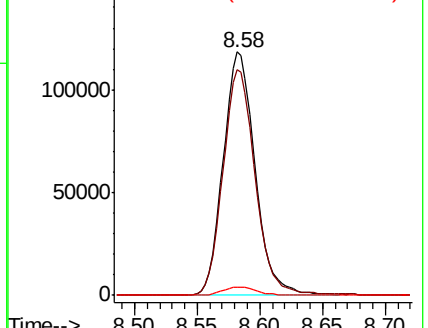
188 3.6 2.9 4.3



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: 49.419 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

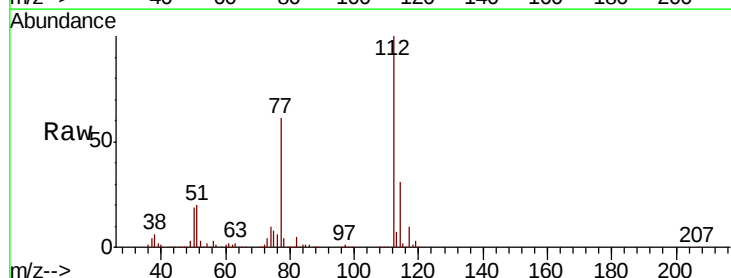
Tgt Ion:112 Resp: 513690

Ion Ratio Lower Upper

112 100

114 30.8 21.6 40.0

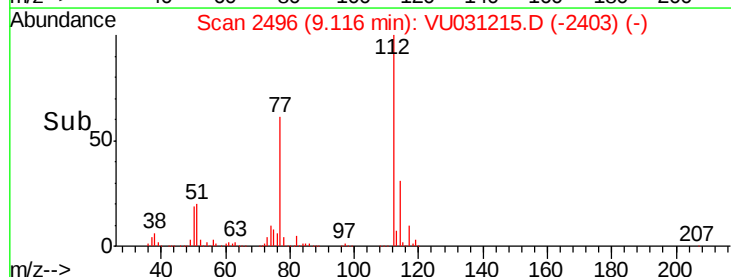
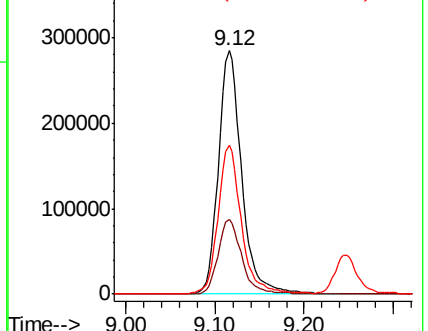
77 61.2 49.0 73.4

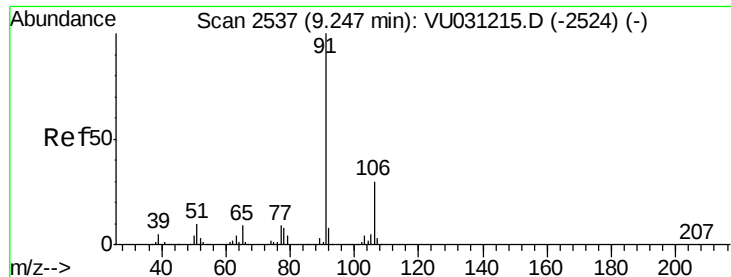


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 48.694 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

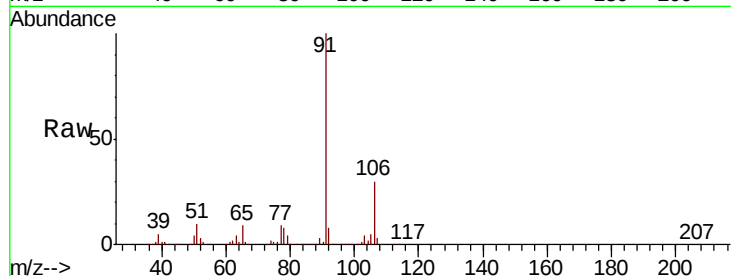
VSTD05049

Tgt Ion: 91 Resp: 893166

Ion Ratio Lower Upper

91 100

106 29.8 20.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VU031215.D (-2524) (-)

Ion 106.00 (105.70 to 106.70): VU031215.D (-2524) (-)

9.25

600000

500000

400000

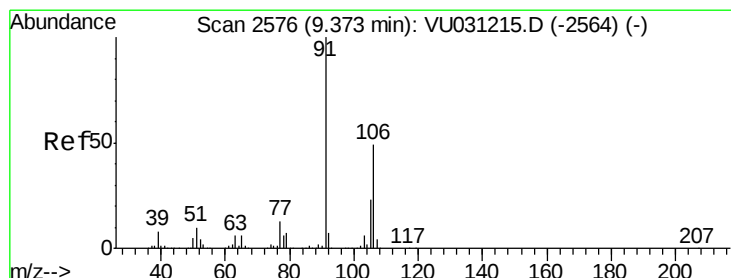
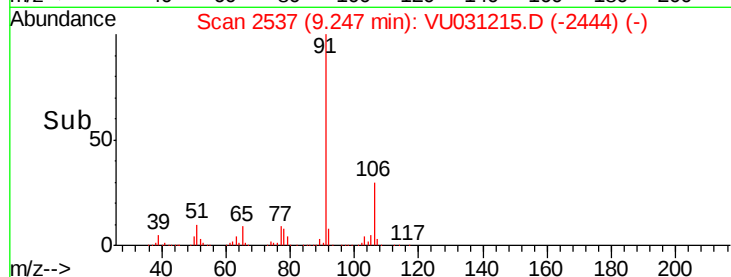
300000

200000

100000

0

Time--> 9.15 9.20 9.25 9.30 9.35



#53

m,p-Xylene

Concen: 50.435 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031215.D

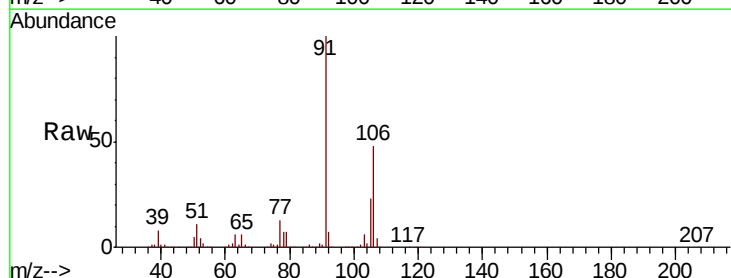
Acq: 16 Apr 2019 16:54

Tgt Ion: 106 Resp: 324610

Ion Ratio Lower Upper

106 100

91 206.5 144.5 268.4



Abundance Ion 106.00 (105.70 to 106.70): VU031215.D (-2564) (-)

Ion 91.00 (90.70 to 91.70): VU031215.D (-2564) (-)

9.37

400000

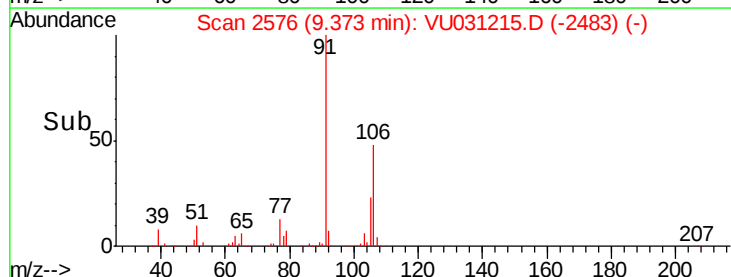
300000

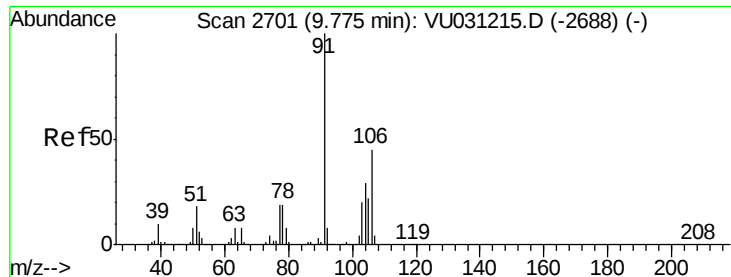
200000

100000

0

Time--> 9.30 9.35 9.40 9.45





#54

o-xylene

Concen: 50.666 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

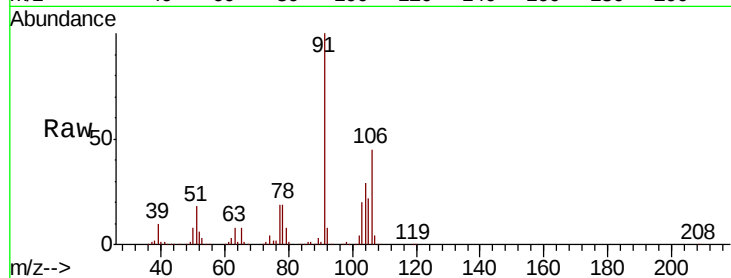
VSTD05049

Tgt Ion:106 Resp: 324731

Ion Ratio Lower Upper

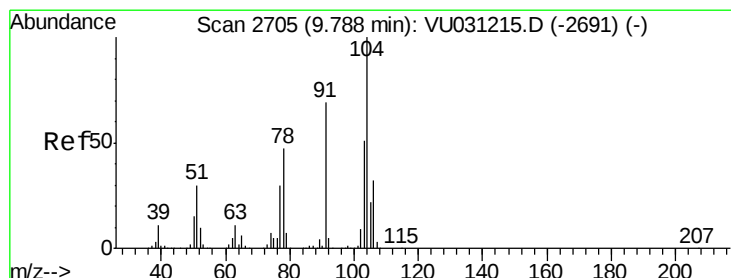
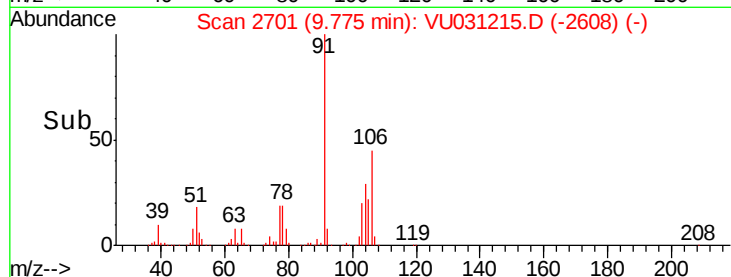
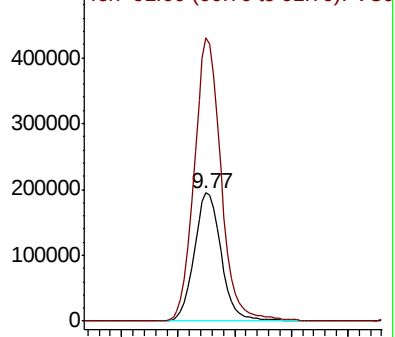
106 100

91 220.4 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.400 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031215.D

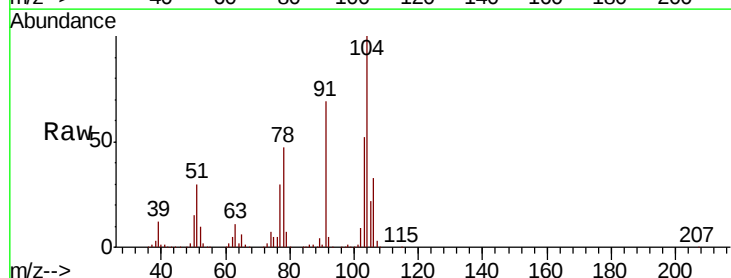
Acq: 16 Apr 2019 16:54

Tgt Ion:104 Resp: 562395

Ion Ratio Lower Upper

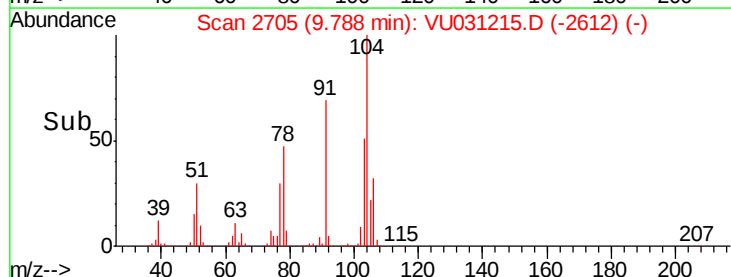
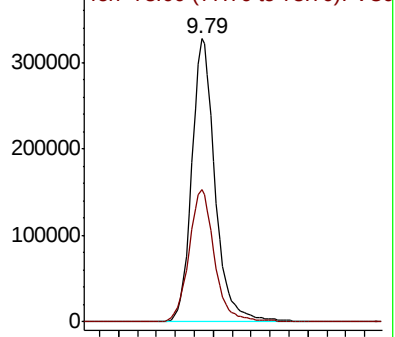
104 100

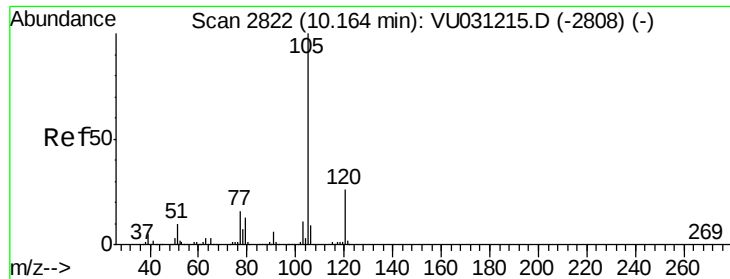
78 46.9 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.230 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

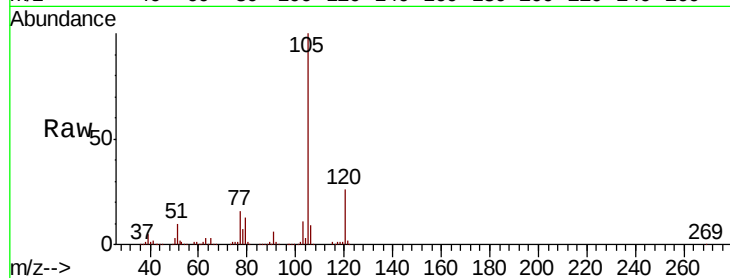
Tgt Ion: 105 Resp: 843128

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

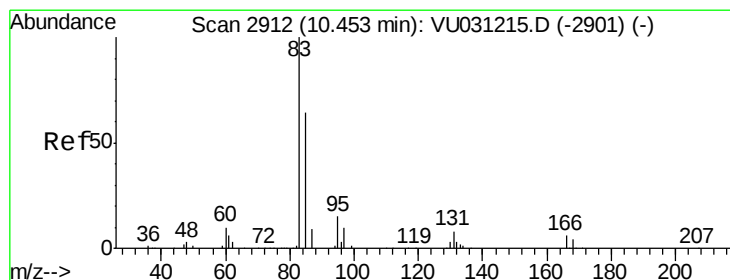
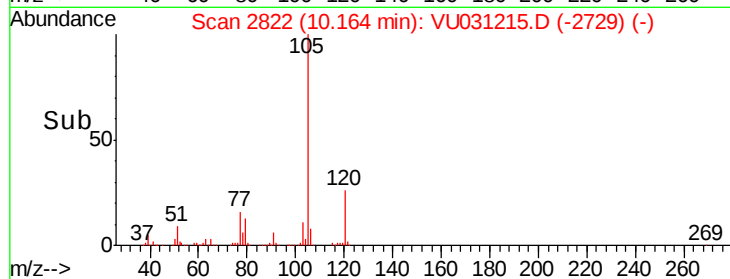
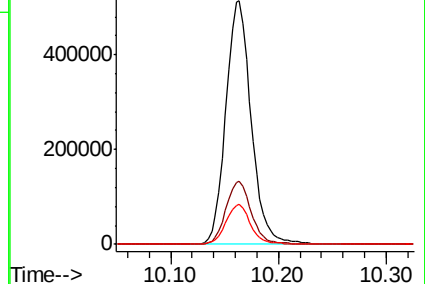
77 16.2 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 47.373 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

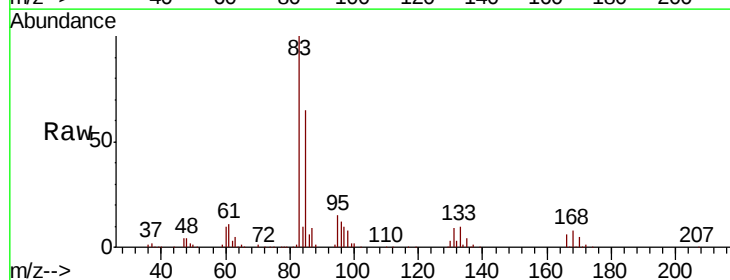
Tgt Ion: 83 Resp: 337393

Ion Ratio Lower Upper

83 100

85 64.9 45.4 84.4

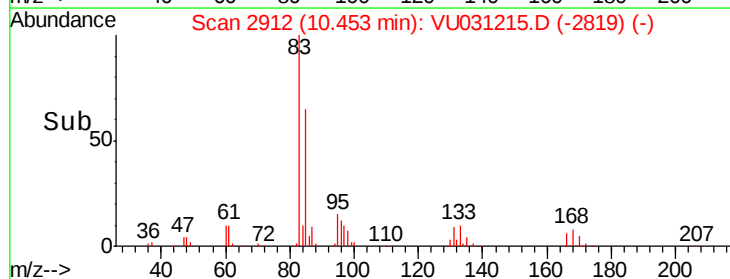
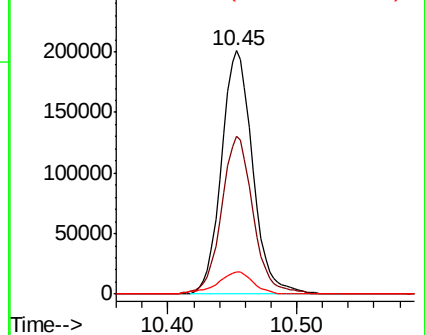
131 9.2 7.4 11.0

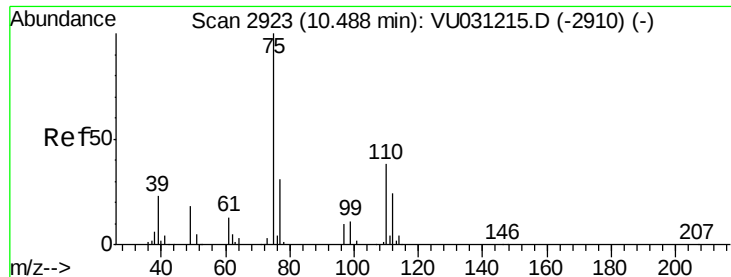


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.180 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

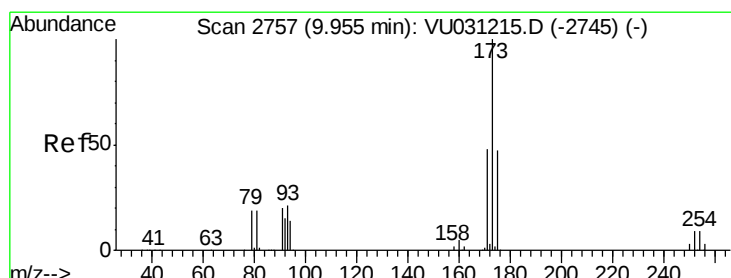
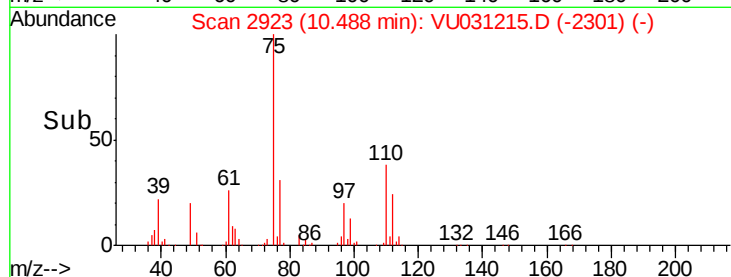
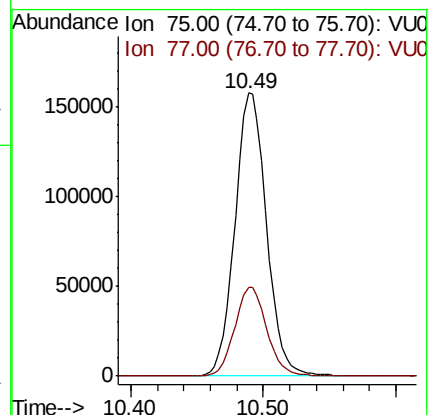
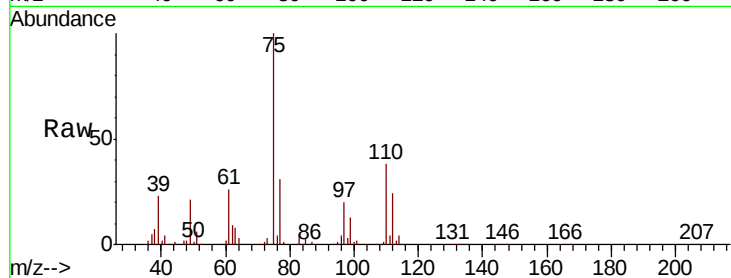
VSTD05049

Tgt Ion: 75 Resp: 260853

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2



#61

Bromoform

Concen: 49.920 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

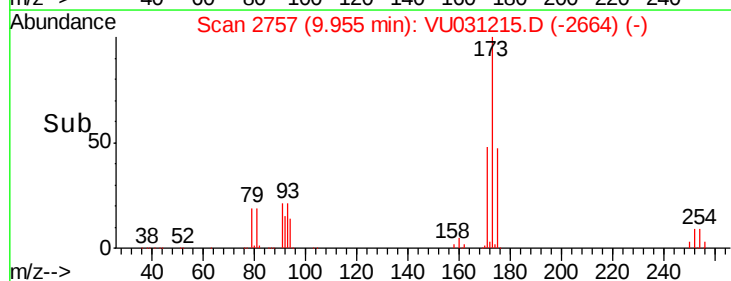
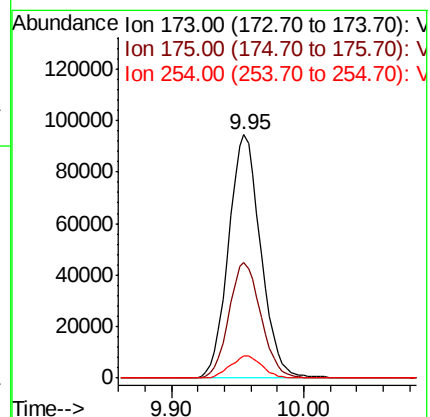
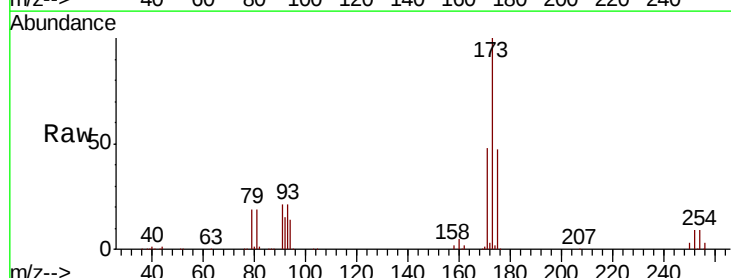
Tgt Ion: 173 Resp: 159276

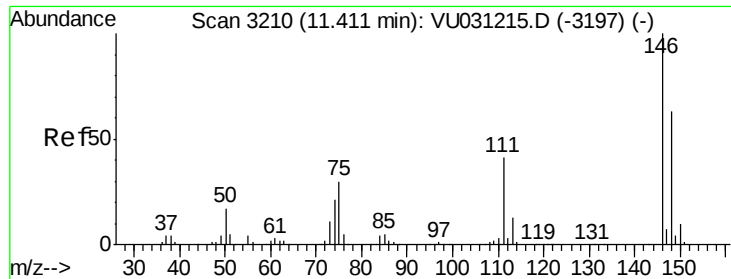
Ion Ratio Lower Upper

173 100

175 47.3 37.8 56.8

254 9.0 7.2 10.8





#62

1,3-Dichlorobenzene

Concen: 48.761 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

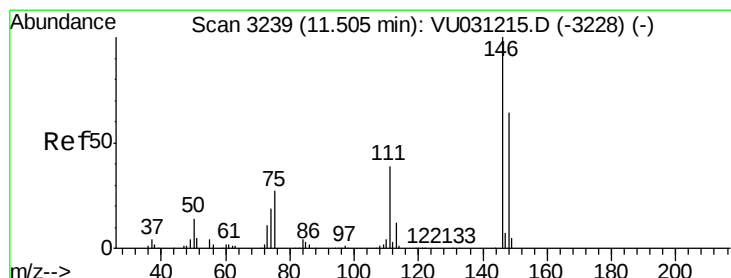
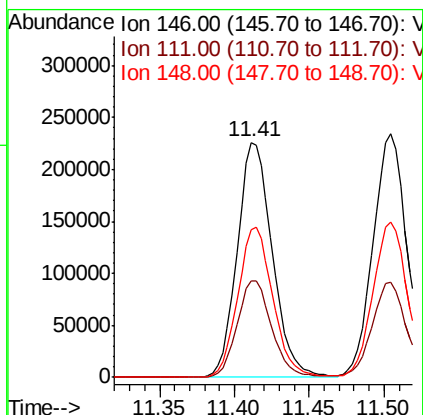
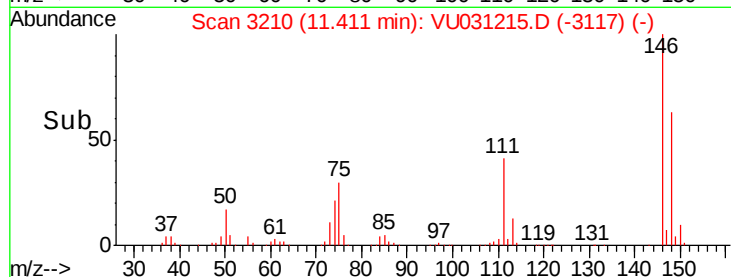
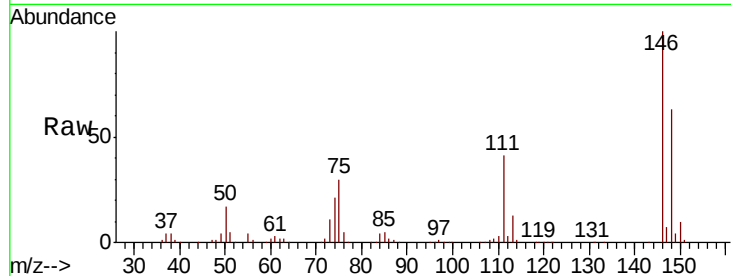
Tgt Ion:146 Resp: 369245

Ion Ratio Lower Upper

146 100

111 41.0 28.7 53.3

148 62.8 44.0 81.6



#63

1,4-Dichlorobenzene

Concen: 48.937 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

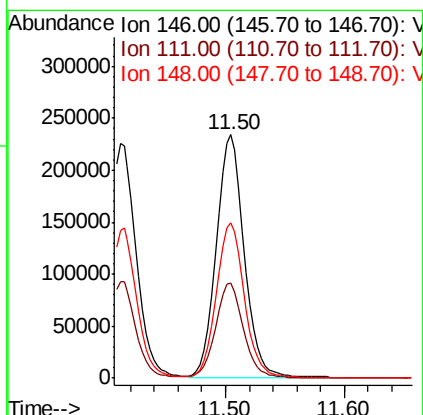
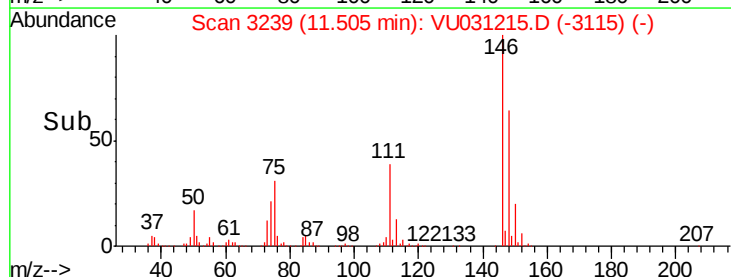
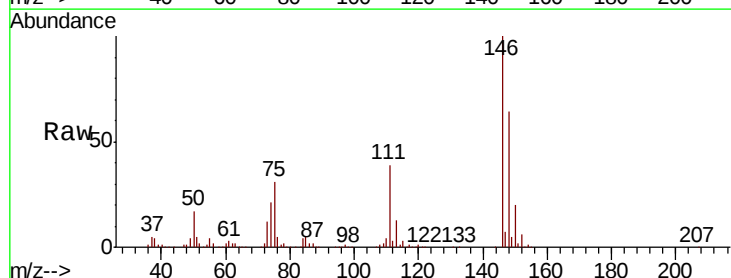
Tgt Ion:146 Resp: 378685

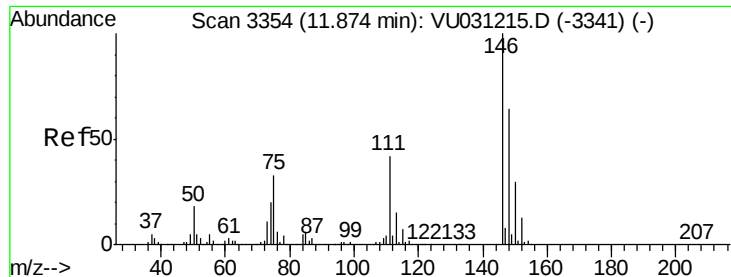
Ion Ratio Lower Upper

146 100

111 39.1 27.4 50.8

148 63.6 44.5 82.7





#65

1,2-Dichlorobenzene

Concen: 50.472 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

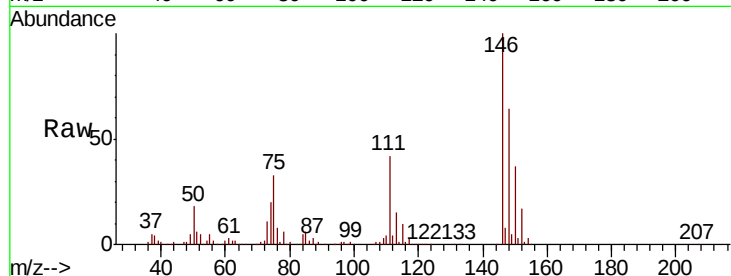
Tgt Ion:146 Resp: 385970

Ion Ratio Lower Upper

146 100

111 41.8 33.4 50.2

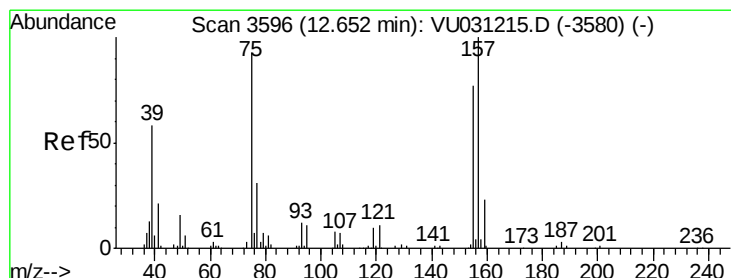
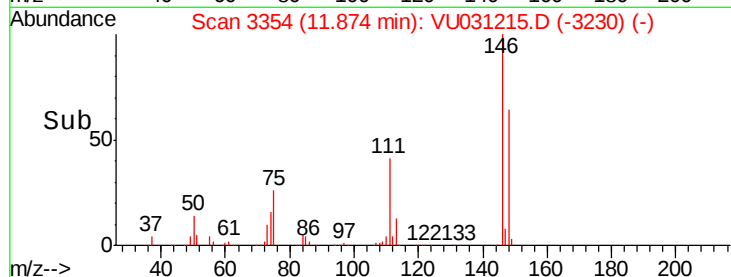
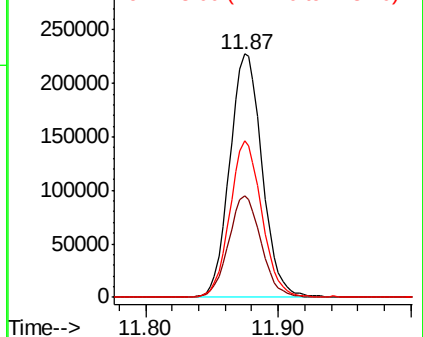
148 64.1 51.3 76.9



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



#66

1,2-Dibromo-3-chloropropane

Concen: 45.712 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

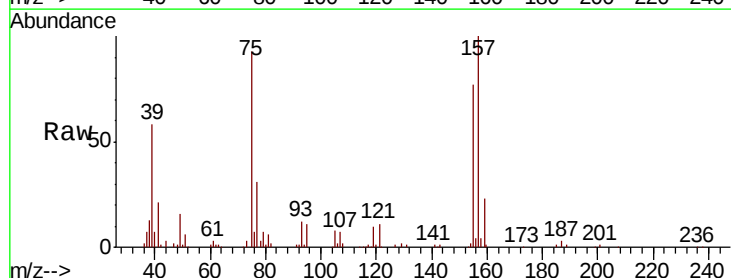
Tgt Ion: 75 Resp: 72399

Ion Ratio Lower Upper

75 100

155 83.4 66.7 100.1

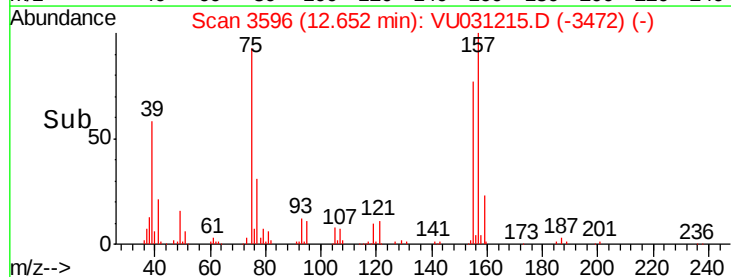
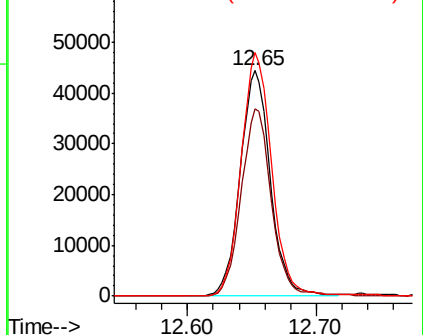
157 108.1 86.5 129.7

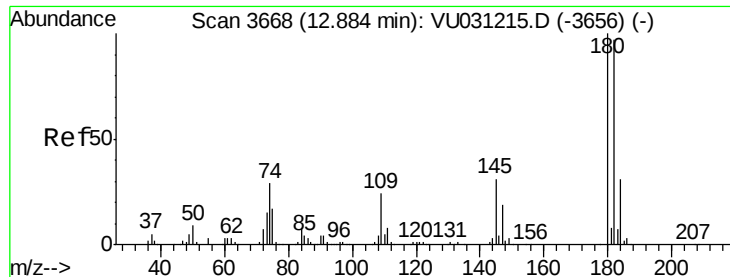


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

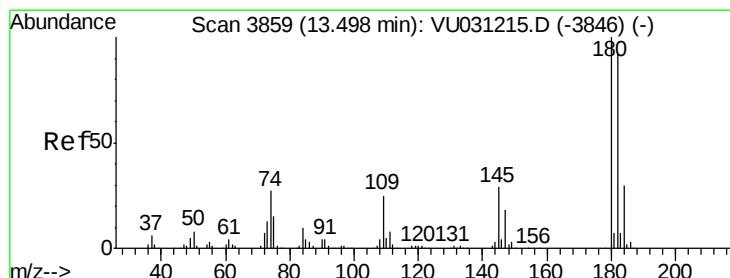
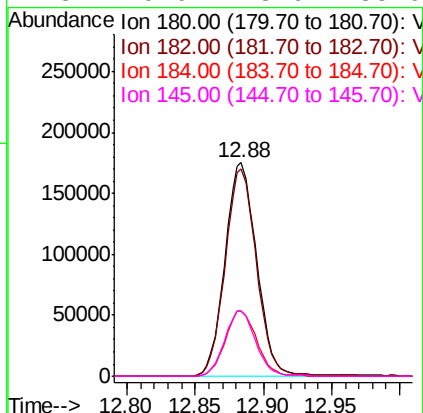
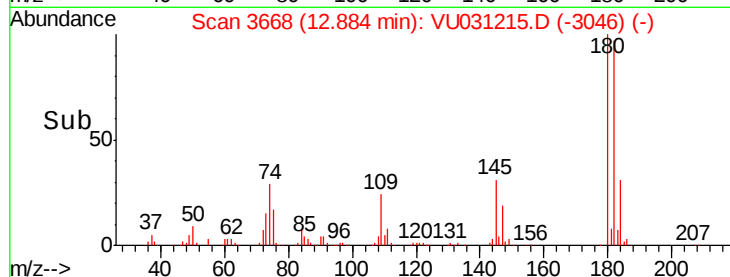
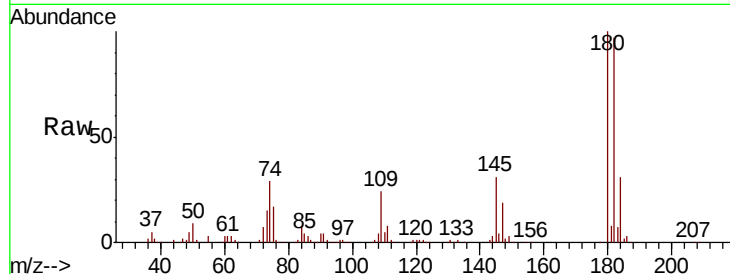




#67
 1,3,5-Trichlorobenzene
 Concen: 50.788 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031215.D
 Acq: 16 Apr 2019 16:54

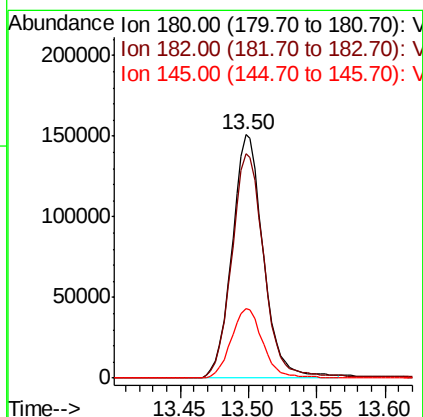
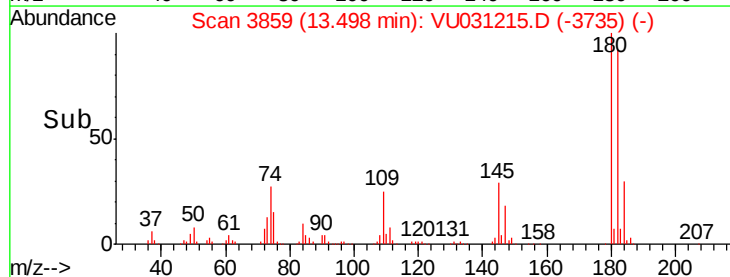
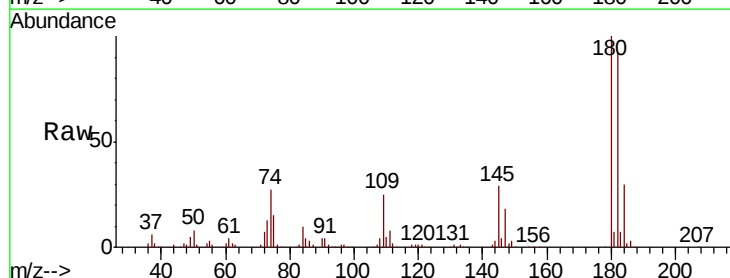
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

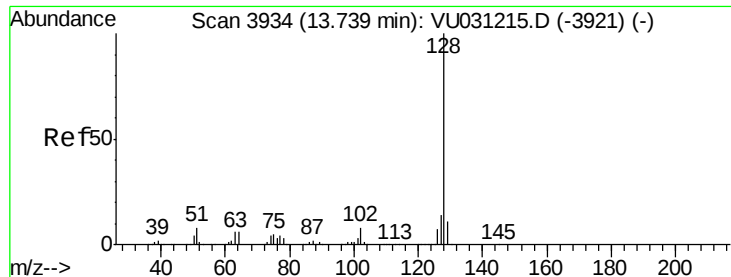
Tgt Ion:180 Resp: 283094
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.7 115.1
 184 30.3 24.2 36.4
 145 29.9 23.9 35.9



#68
 1,2,4-trichlorobenzene
 Concen: 51.135 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031215.D
 Acq: 16 Apr 2019 16:54

Tgt Ion:180 Resp: 240470
 Ion Ratio Lower Upper
 180 100
 182 94.4 75.5 113.3
 145 28.9 23.1 34.7





#69

Naphthalene

Concen: 51.871 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

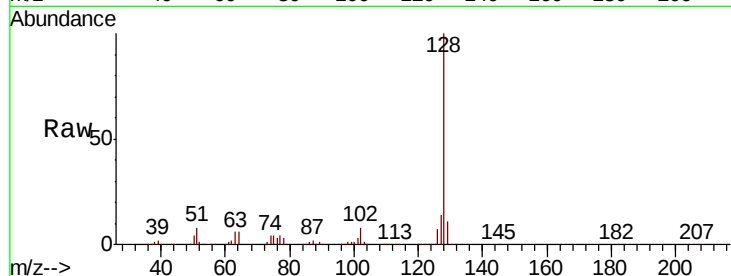
Tgt Ion:128 Resp: 787309

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

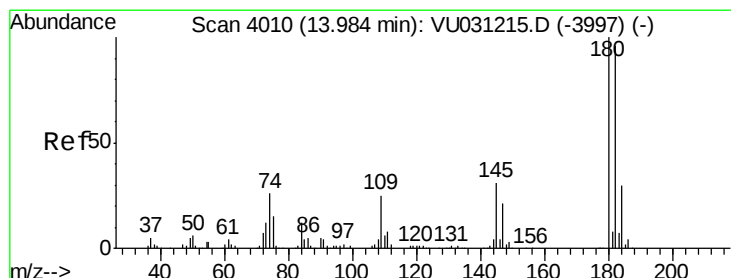
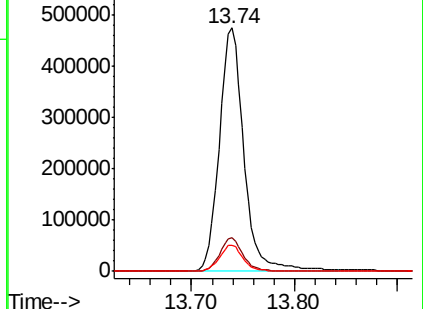
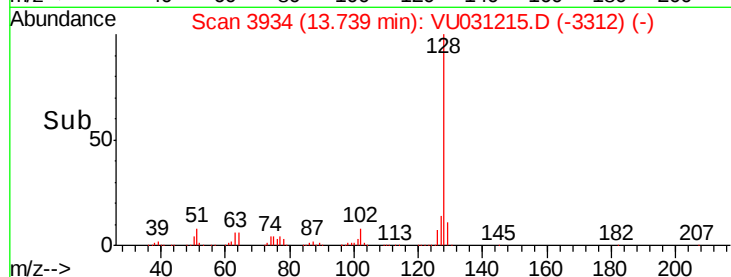
129 10.2 8.2 12.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.630 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031215.D

Acq: 16 Apr 2019 16:54

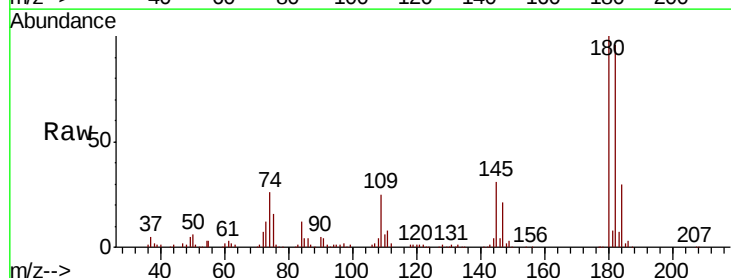
Tgt Ion:180 Resp: 255605

Ion Ratio Lower Upper

180 100

182 97.8 78.2 117.4

145 31.3 25.0 37.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

