

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042919\
 Data File : VU031571.D
 Acq On : 29 Apr 2019 09:16
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Quant Time: Apr 30 01:54:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Apr 29 01:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	716126	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	699883	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	315038	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	275528	45.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.94%
7) Chloroethane-d5	1.68	69	223611	48.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.56%
11) 1,1-Dichloroethene-d2	2.27	63	576151	48.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.54%
21) 2-Butanone-d5	4.18	46	585408	107.80	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.80%
24) Chloroform-d	4.64	84	540878	49.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.56%
26) 1,2-Dichloroethane-d4	5.30	65	359127	50.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.16%
32) Benzene-d6	5.34	84	1044233	48.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.18%
36) 1,2-Dichloropropane-d6	6.32	67	374846	49.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.16%
41) Toluene-d8	7.56	98	921798	49.24	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.48%
43) trans-1,3-Dichloropropene-	7.85	79	165685	51.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.10%
47) 2-Hexanone-d5	8.31	63	345635	105.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.61%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	501217	49.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.78%
64) 1,2-Dichlorobenzene-d4	11.85	152	326663	49.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.62%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	386507	49.081	ug/L 97
3) Chloromethane	1.32	50	457825	48.052	ug/L 100
5) Vinyl chloride	1.40	62	432015	48.499	ug/L 99
6) Bromomethane	1.63	94	216747	46.140	ug/L 96
8) Chloroethane	1.70	64	239051	49.094	ug/L 97
9) Trichlorofluoromethane	1.88	101	498909	49.131	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	288229	50.211	ug/L 98
12) 1,1-Dichloroethene	2.28	96	269313	48.201	ug/L 96
13) Acetone	2.34	43	656799	107.375	ug/L 99
14) Carbon disulfide	2.47	76	885911	47.782	ug/L 99
15) Methyl Acetate	2.62	43	457741	49.456	ug/L 99
16) Methylene chloride	2.70	84	320785	48.650	ug/L 95
17) trans-1,2-Dichloroethene	2.98	96	282365	48.501	ug/L 100
18) Methyl tert-butyl Ether	2.99	73	961071	51.814	ug/L 99
19) 1,1-Dichloroethane	3.44	63	609471	49.708	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	314998	50.440	ug/L 98
22) 2-Butanone	4.27	43	745357	109.985	ug/L 98

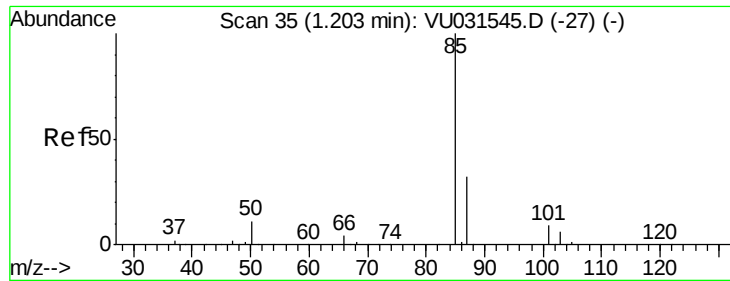
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042919\
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 Quant Title : VOC Analysis
 QLast Update : Mon Apr 29 01:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	146945	48.423	ug/L	95
25) Chloroform	4.67	83	575751	49.106	ug/L	99
27) 1,2-Dichloroethane	5.40	62	467286	49.067	ug/L	97
29) Cyclohexane	4.99	56	568267	51.303	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	468544	47.781	ug/L	99
31) Carbon tetrachloride	5.13	117	407850	48.660	ug/L	99
33) Benzene	5.38	78	1275897	49.584	ug/L	100
34) Trichloroethene	6.18	95	314655	50.446	ug/L	96
35) Methylcyclohexane	6.41	83	487193	52.118	ug/L	98
37) 1,2-Dichloropropane	6.43	63	356851	48.850	ug/L	99
38) Bromodichloromethane	6.75	83	431782	48.749	ug/L	97
39) cis-1,3-Dichloropropene	7.26	75	498270	51.620	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	1146743	102.031	ug/L	99
42) Toluene	7.63	91	1274606	49.727	ug/L	97
44) trans-1,3-Dichloropropene	7.87	75	451604	51.582	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	295897	49.134	ug/L	97
46) Tetrachloroethene	8.22	164	213974	50.319	ug/L	97
48) 2-Hexanone	8.36	43	958659	105.462	ug/L	100
49) Dibromochloromethane	8.47	129	311111	49.650	ug/L	99
50) 1,2-Dibromoethane	8.58	107	315019	49.529	ug/L	98
51) Chlorobenzene	9.12	112	759281	50.127	ug/L	98
52) Ethylbenzene	9.24	91	1390146	52.283	ug/L	99
53) m,p-Xylene	9.37	106	505432	54.560	ug/L	97
54) o-xylene	9.77	106	490952	53.456	ug/L	97
55) Styrene	9.79	104	852008	54.299	ug/L	99
56) Isopropylbenzene	10.16	105	1289623	53.399	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	522393	48.884	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	421907	48.713	ug/L	99
61) Bromoform	9.95	173	220487	47.214	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	531425	50.960	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	538842	49.893	ug/L	96
65) 1,2-Dichlorobenzene	11.87	146	542509	48.949	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	121274	47.147	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	399110	51.098	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	331837	53.666	ug/L	99
69) Naphthalene	13.74	128	1122058	53.222	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	344560	48.945	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 49.081 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

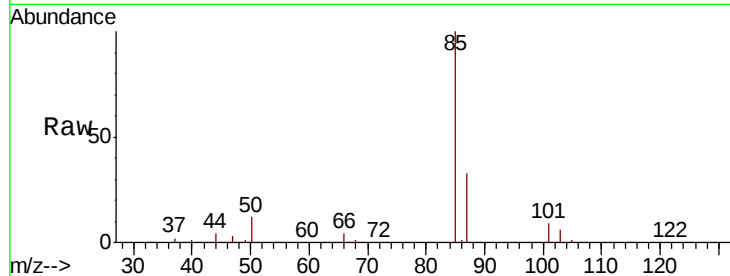
VSTD05052

Tgt Ion: 85 Resp: 386507

Ion Ratio Lower Upper

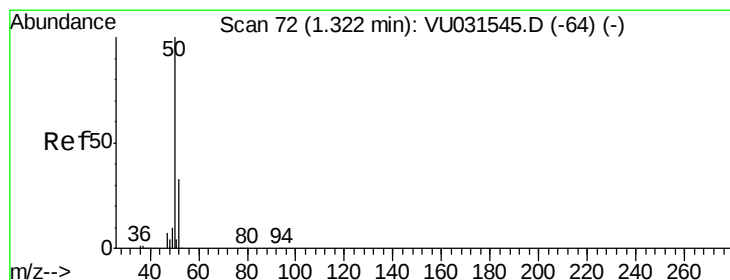
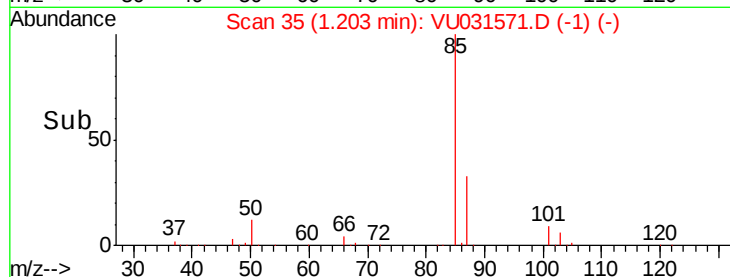
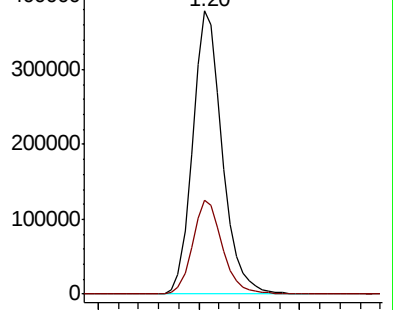
85 100

87 33.3 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031571.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031571.D (-1) (-)



#3

Chloromethane

Concen: 48.052 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU031571.D

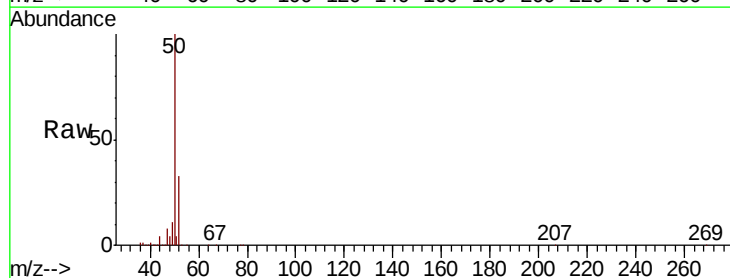
Acq: 29 Apr 2019 09:16

Tgt Ion: 50 Resp: 457825

Ion Ratio Lower Upper

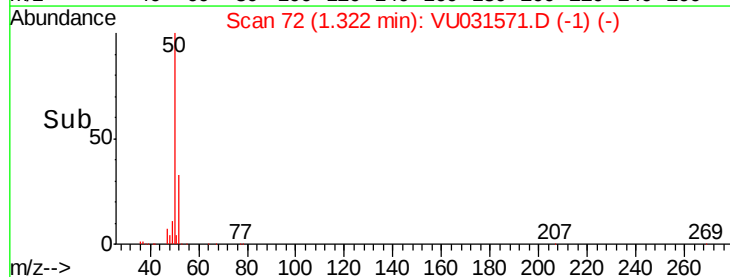
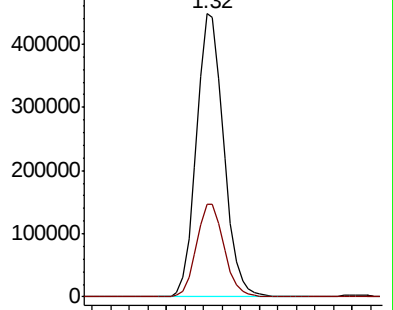
50 100

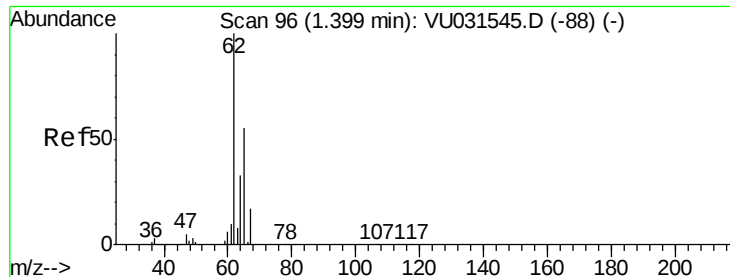
52 32.5 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031571.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU031571.D (-1) (-)





#5

Vinyl chloride

Concen: 48.499 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

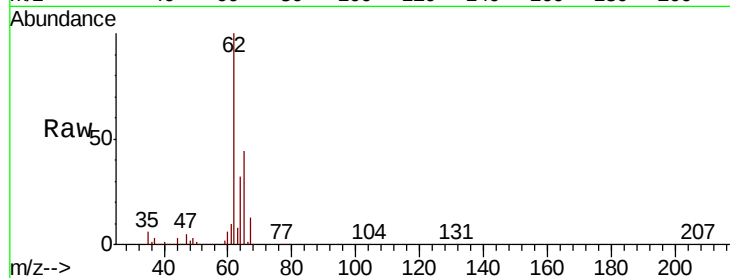
VSTD05052

Tgt Ion: 62 Resp: 432015

Ion Ratio Lower Upper

62 100

64 32.2 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031545.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031545.D (-88) (-)

1.40

400000

300000

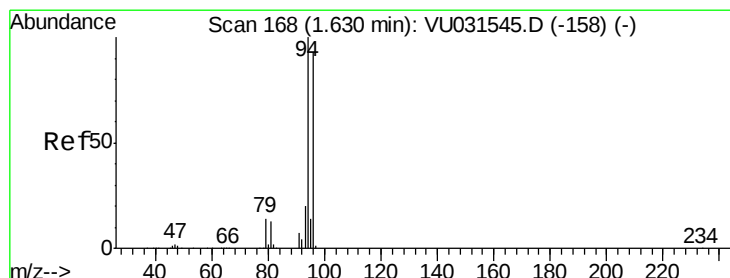
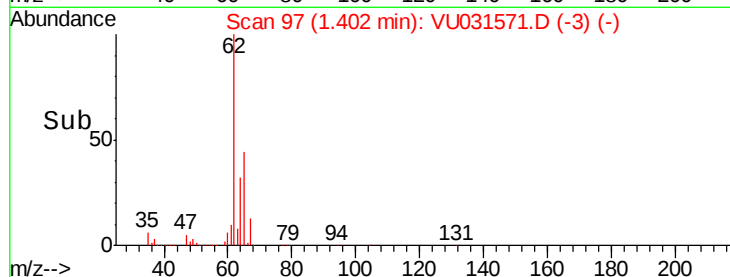
200000

100000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 46.140 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031571.D

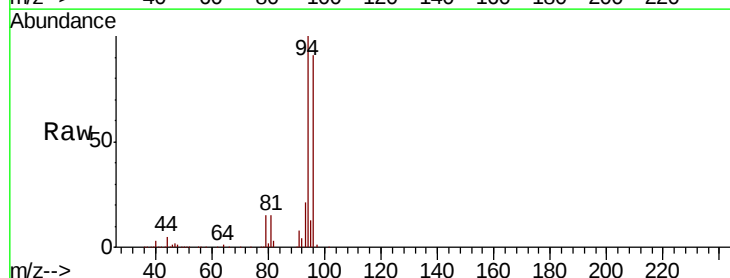
Acq: 29 Apr 2019 09:16

Tgt Ion: 94 Resp: 216747

Ion Ratio Lower Upper

94 100

96 90.7 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031545.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU031545.D (-158) (-)

1.63

200000

150000

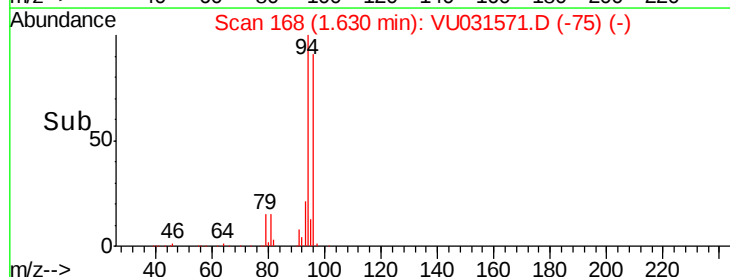
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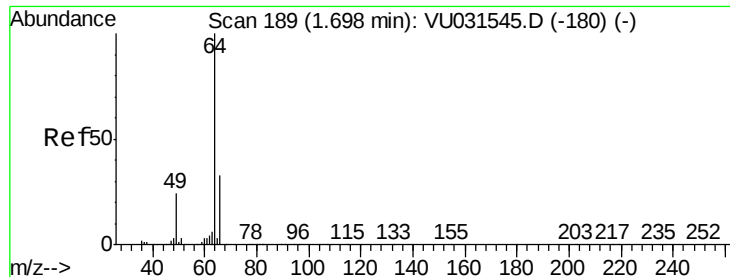
50000

0

1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 49.094 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

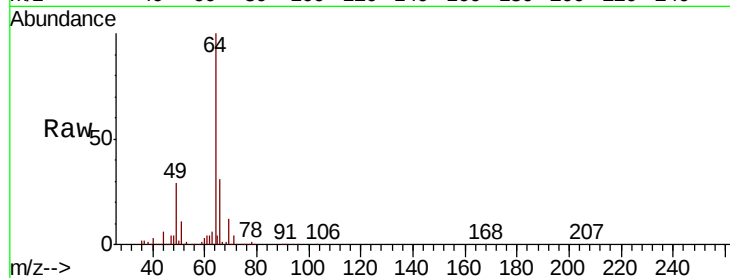
VSTD05052

Tgt Ion: 64 Resp: 239051

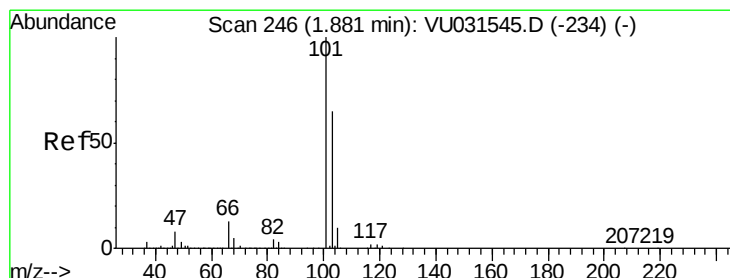
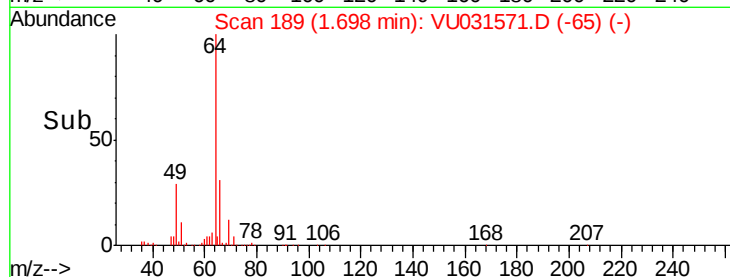
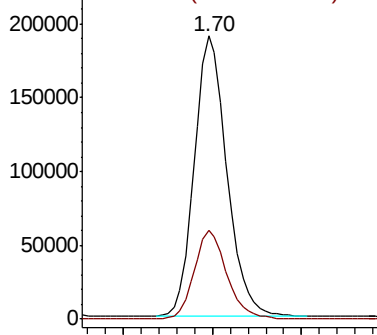
Ion Ratio Lower Upper

64 100

66 31.2 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU031571.D (-180) (-)



#9

Trichlorofluoromethane

Concen: 49.131 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU031571.D

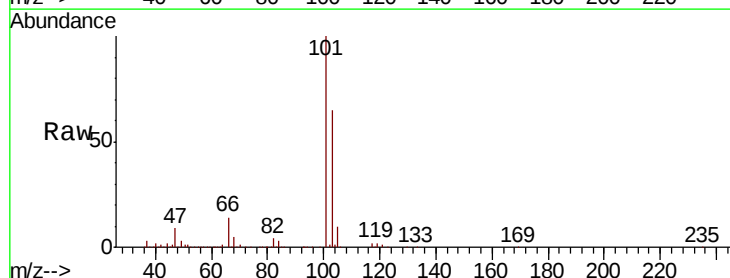
Acq: 29 Apr 2019 09:16

Tgt Ion: 101 Resp: 498909

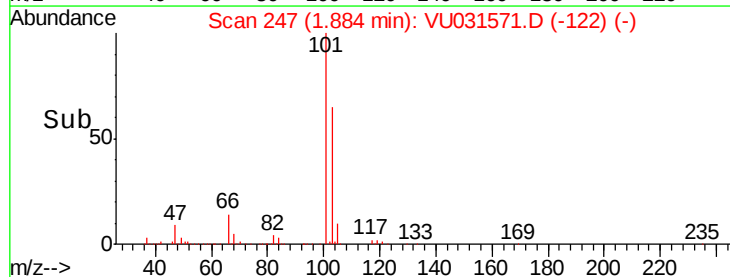
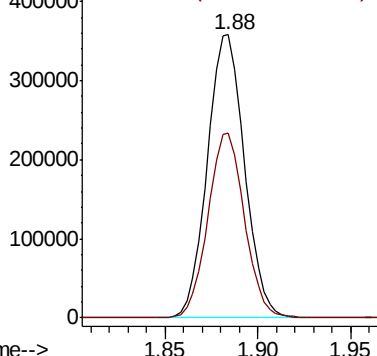
Ion Ratio Lower Upper

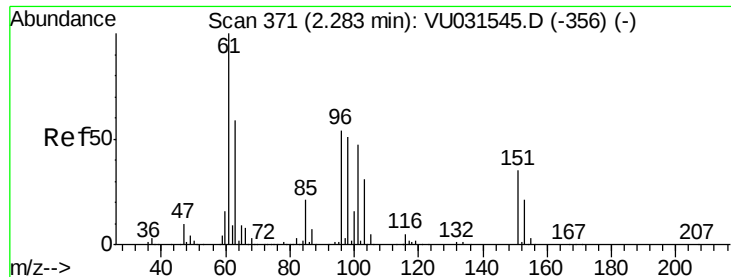
101 100

103 64.0 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): VU031571.D (-122) (-)





#10

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

Concen: 50.211 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampled :

VSTD05052

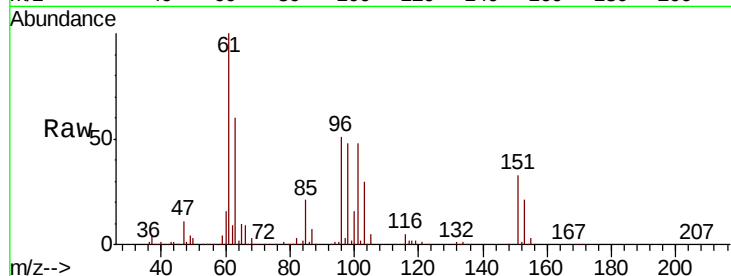
Tgt Ion: 101 Resp: 288229

Ion Ratio Lower Upper

101 100

85 44.3 36.1 54.1

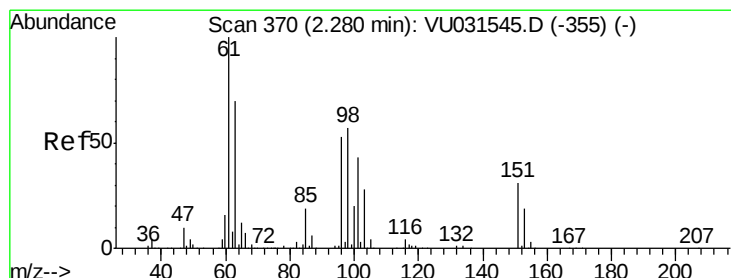
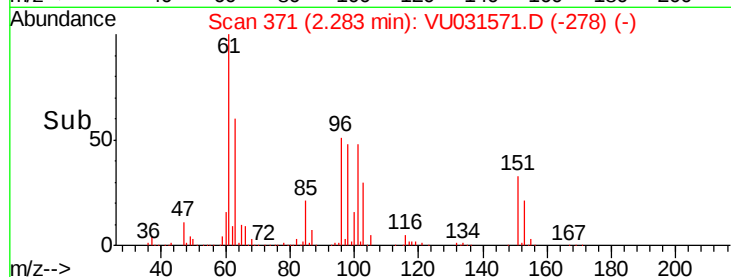
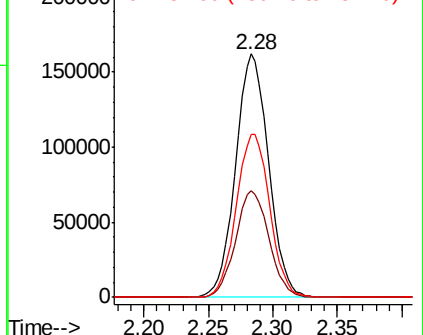
151 68.1 56.1 84.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.201 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

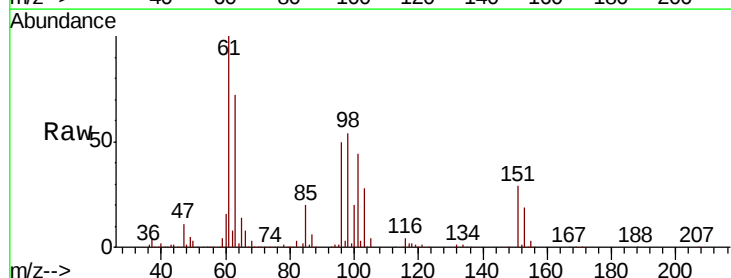
Tgt Ion: 96 Resp: 269313

Ion Ratio Lower Upper

96 100

61 198.1 135.0 250.6

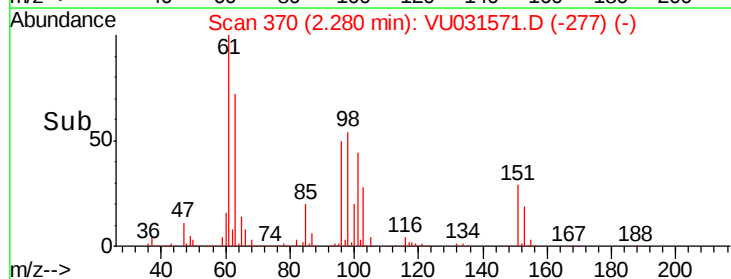
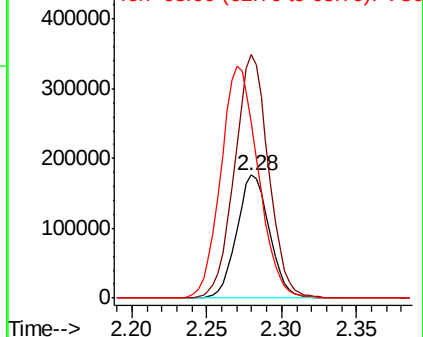
63 142.8 103.5 192.3

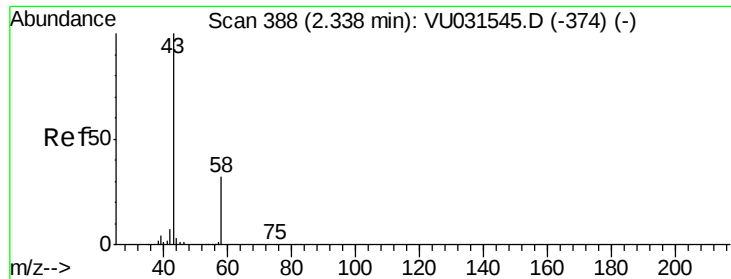


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 107.375 ug/L

RT: 2.34 min Scan# 388

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

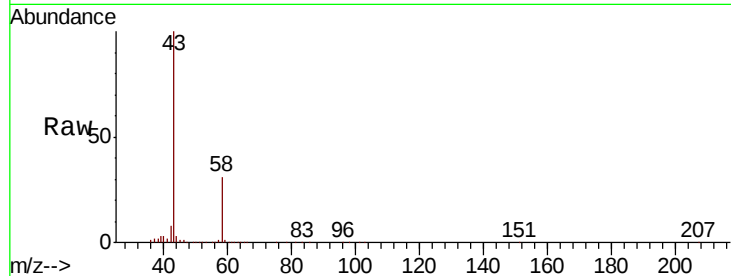
VSTD05052

Tgt Ion: 43 Resp: 656799

Ion Ratio Lower Upper

43 100

58 31.8 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031545.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031545.D (-374) (-)

2.34

250000

200000

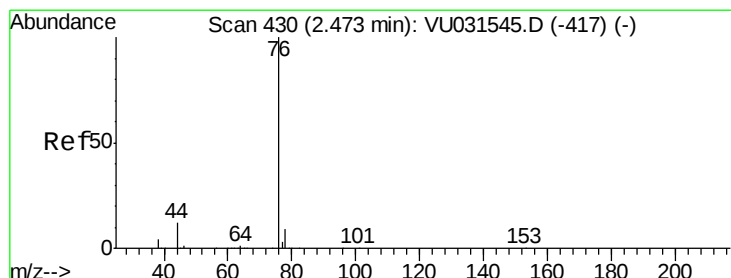
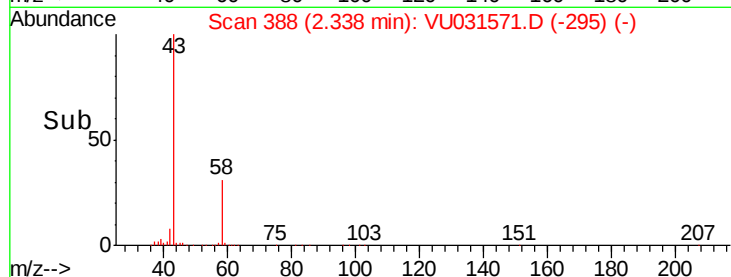
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 47.782 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031571.D

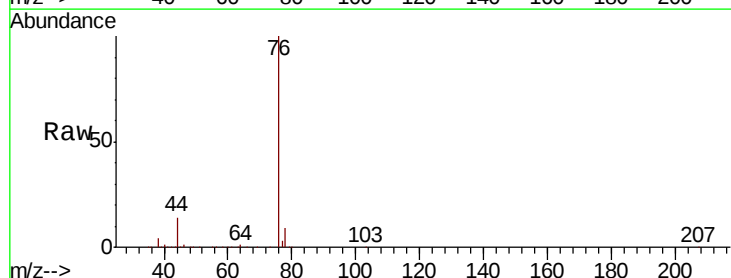
Acq: 29 Apr 2019 09:16

Tgt Ion: 76 Resp: 885911

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031545.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031545.D (-417) (-)

2.47

600000

500000

400000

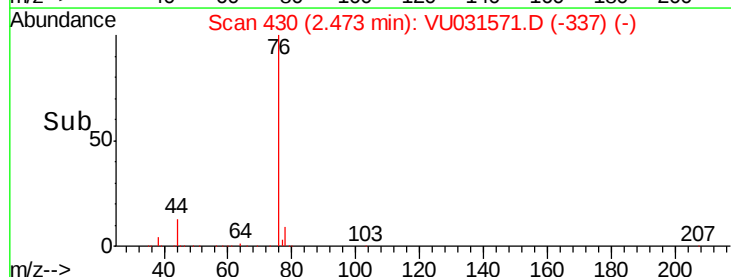
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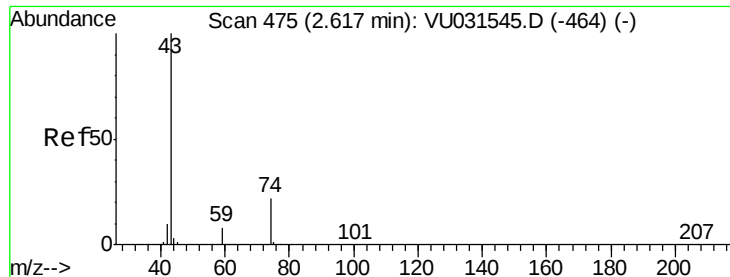
200000

100000

0

Time-->

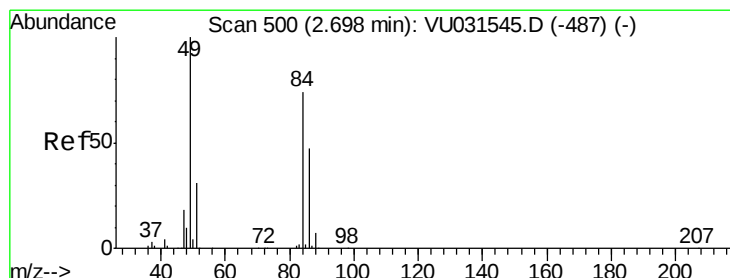
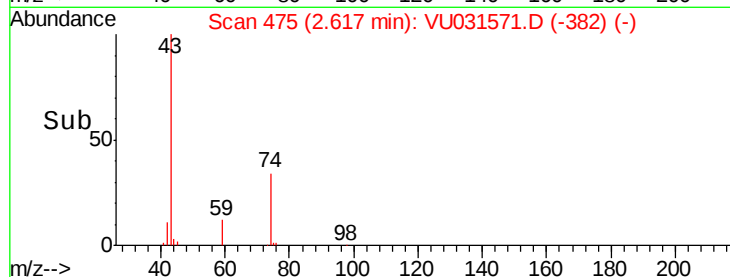
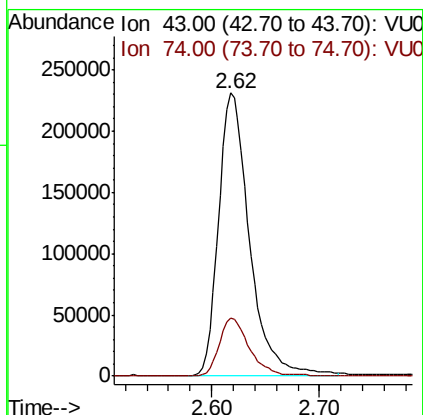
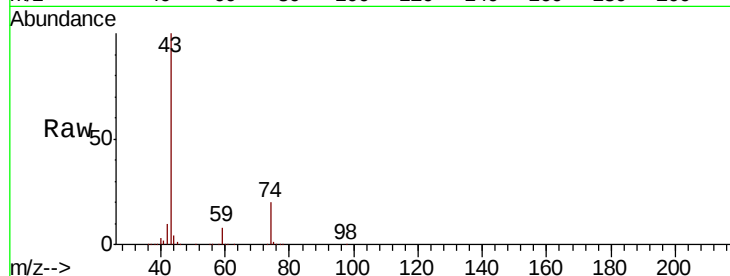




#15
Methyl Acetate
Concen: 49.456 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU031571.D
Acq: 29 Apr 2019 09:16

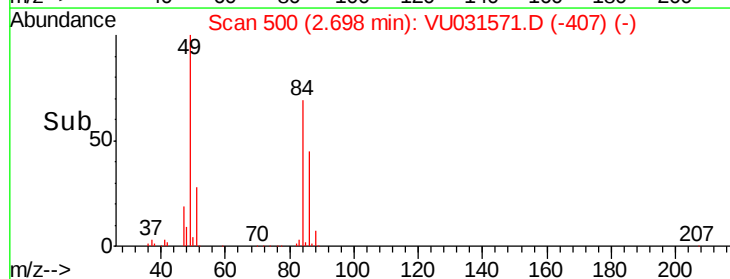
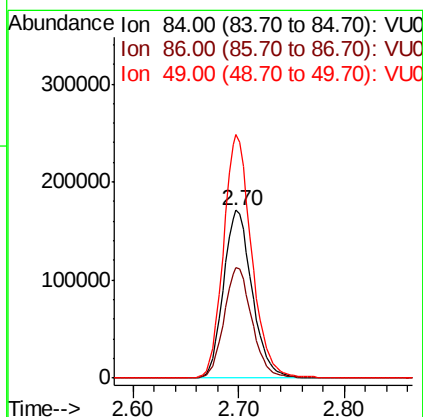
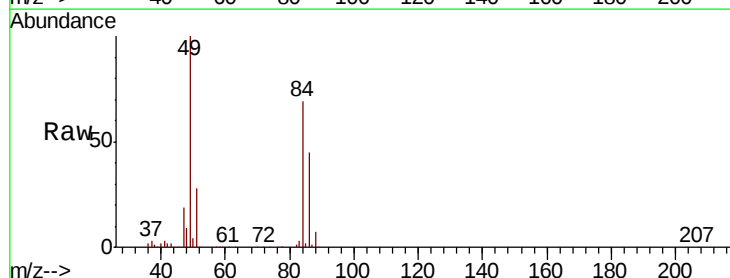
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

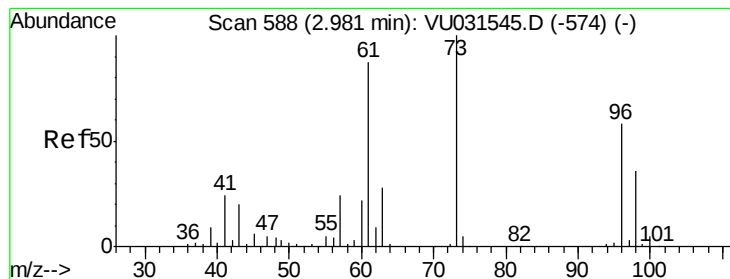
Tgt Ion: 43 Resp: 457741
Ion Ratio Lower Upper
43 100
74 19.9 15.7 23.5



#16
Methylene chloride
Concen: 48.650 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031571.D
Acq: 29 Apr 2019 09:16

Tgt Ion: 84 Resp: 320785
Ion Ratio Lower Upper
84 100
86 66.0 44.7 83.1
49 145.2 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 48.501 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

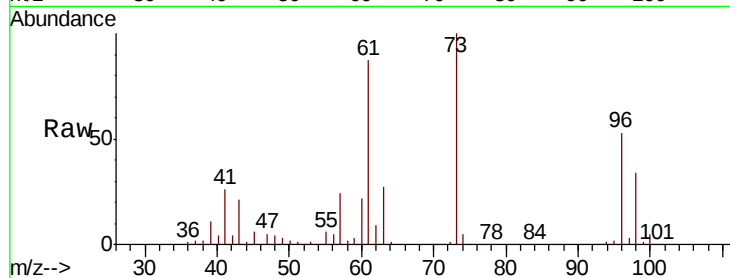
Tgt Ion: 96 Resp: 282365

Ion Ratio Lower Upper

96 100

61 163.4 114.5 212.7

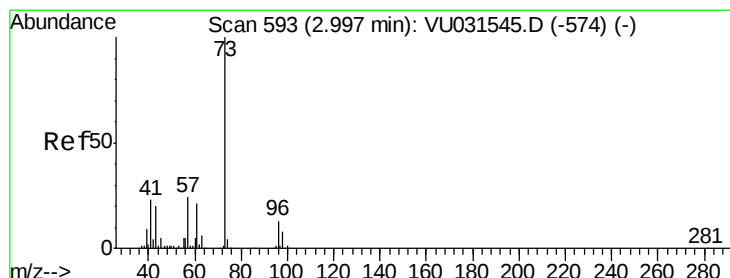
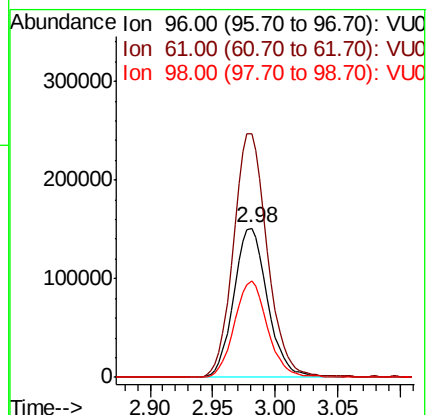
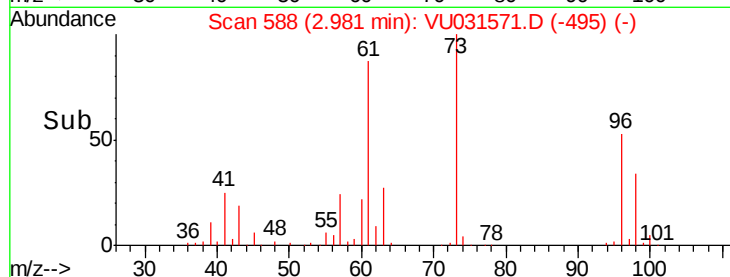
98 64.5 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031571.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU031571.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU031571.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 51.814 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

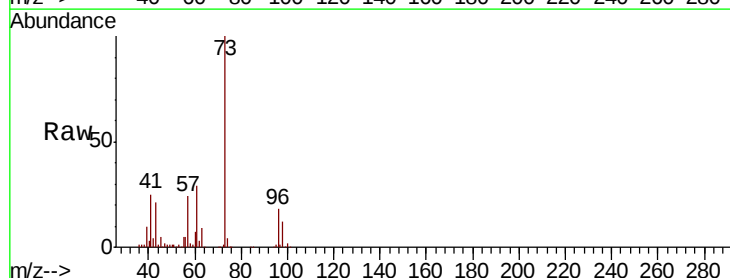
Tgt Ion: 73 Resp: 961071

Ion Ratio Lower Upper

73 100

43 20.8 17.0 25.4

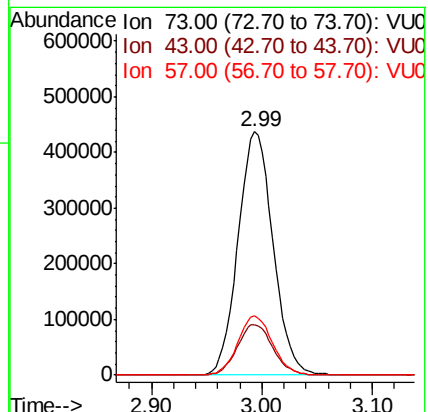
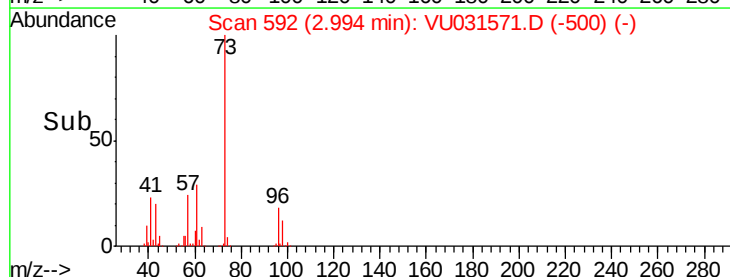
57 24.1 19.5 29.3

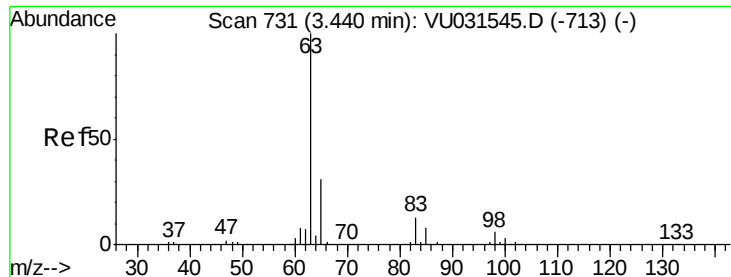


Abundance Ion 73.00 (72.70 to 73.70): VU031571.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU031571.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU031571.D (-500) (-)

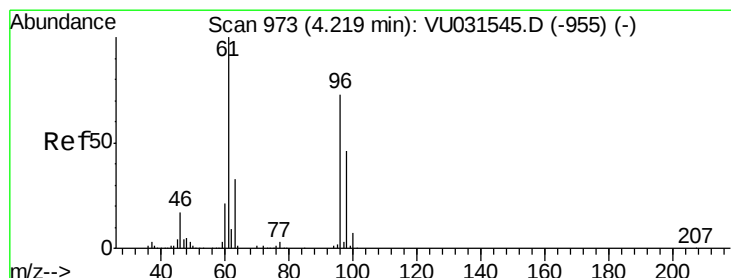
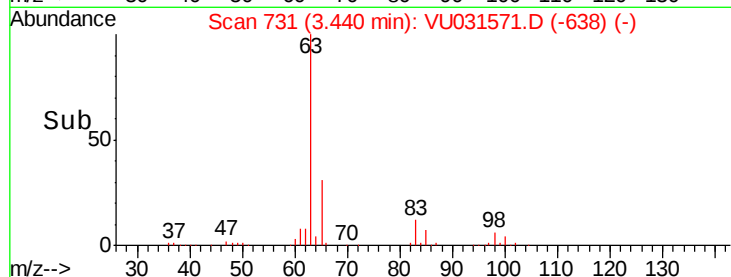
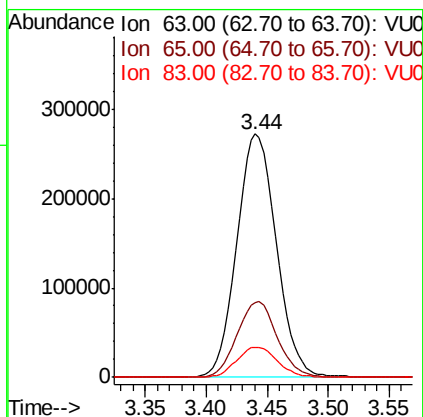
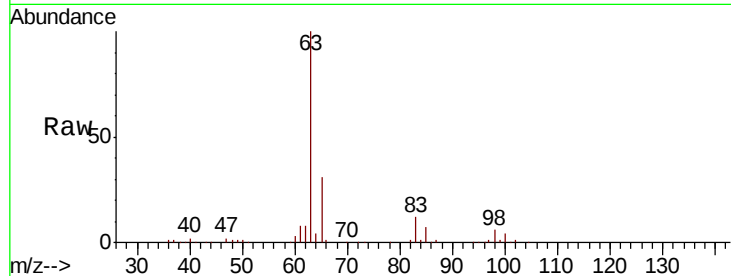




#19
 1,1-Dichloroethane
 Concen: 49.708 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

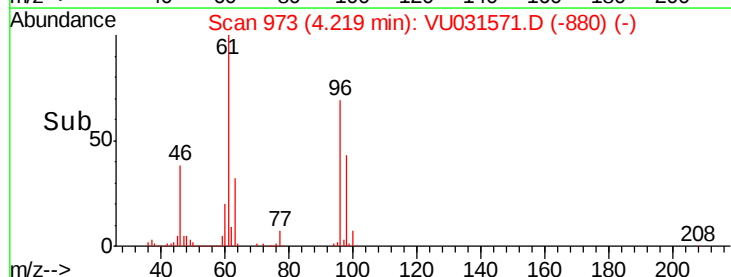
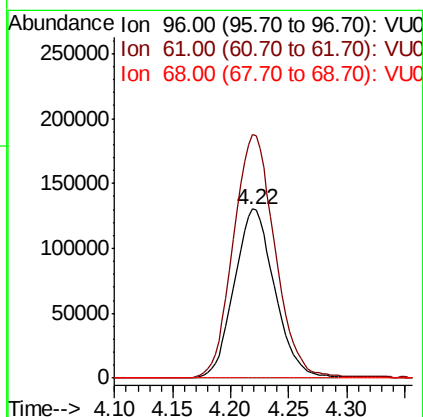
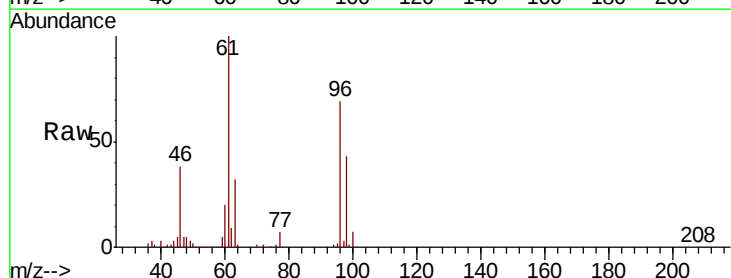
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

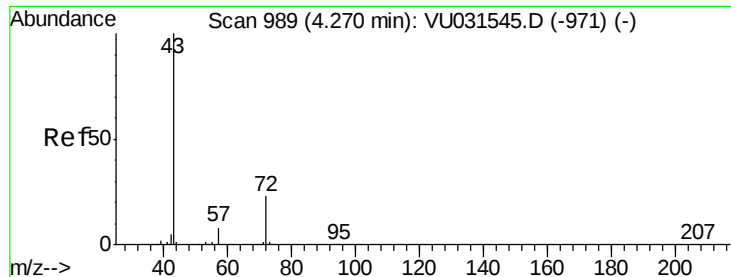
Tgt Ion: 63 Resp: 609471
 Ion Ratio Lower Upper
 63 100
 65 30.8 22.0 40.8
 83 12.5 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 50.440 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

Tgt Ion: 96 Resp: 314998
 Ion Ratio Lower Upper
 96 100
 61 144.0 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 109.985 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

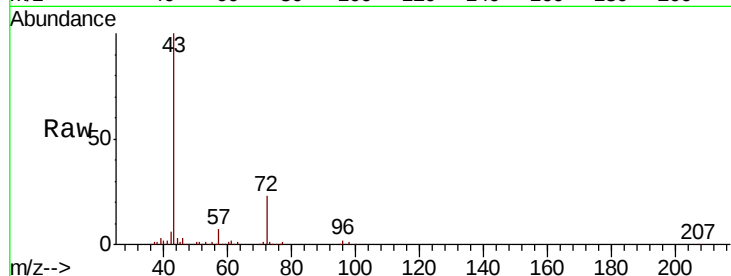
Instrument :
MSVOA_U
ClientSampled :
VSTD05052

Tgt Ion: 43 Resp: 745357

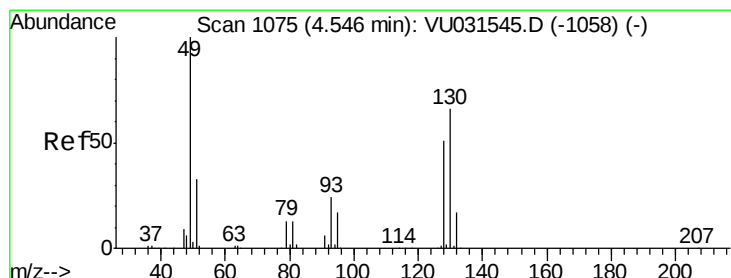
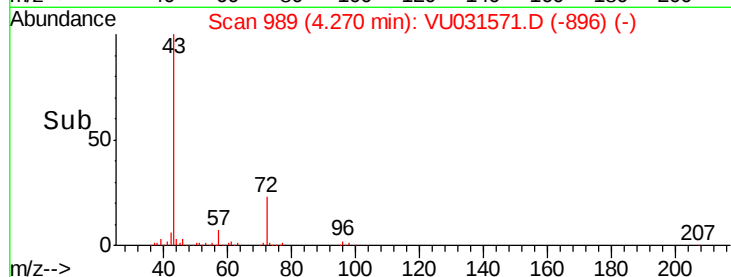
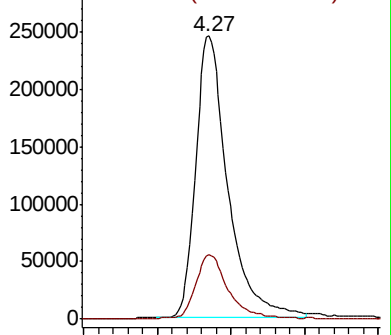
Ion Ratio Lower Upper

43 100

72 21.9 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031545.D (-971) (-)



#23

Bromochloromethane

Concen: 48.423 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Tgt Ion: 128 Resp: 146945

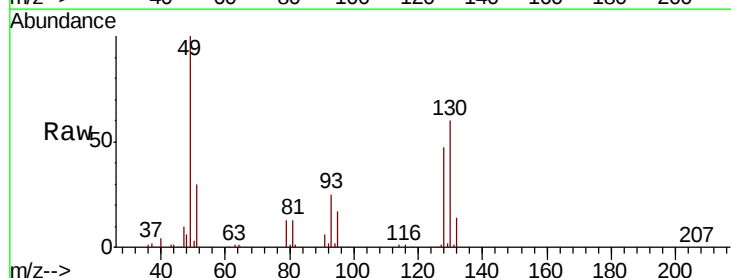
Ion Ratio Lower Upper

128 100

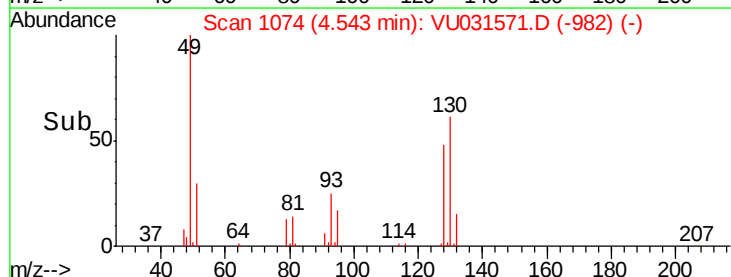
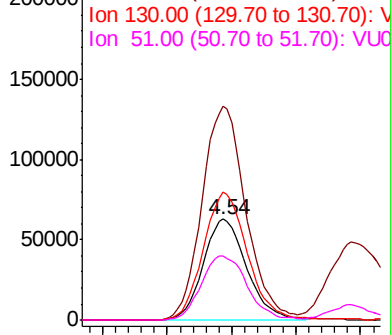
49 212.4 152.6 283.4

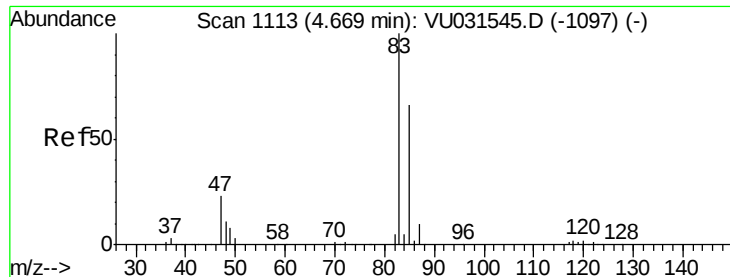
130 126.8 93.7 173.9

51 63.7 54.2 81.4



Abundance Ion 128.00 (127.70 to 128.70): VU031545.D (-1058) (-)





#25

Chloroform

Concen: 49.106 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

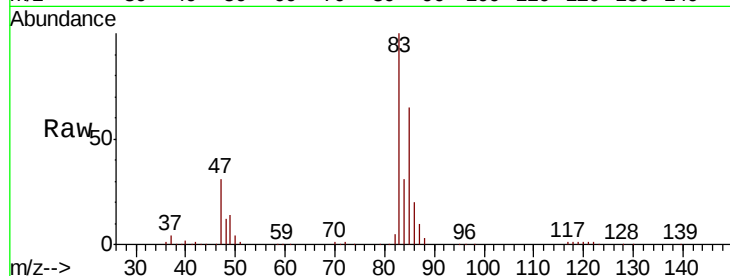
VSTD05052

Tgt Ion: 83 Resp: 575751

Ion Ratio Lower Upper

83 100

85 64.9 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU031545.D (-1097) (-)

Ion 85.00 (84.70 to 85.70): VU031545.D (-1097) (-)

4.67

250000

200000

150000

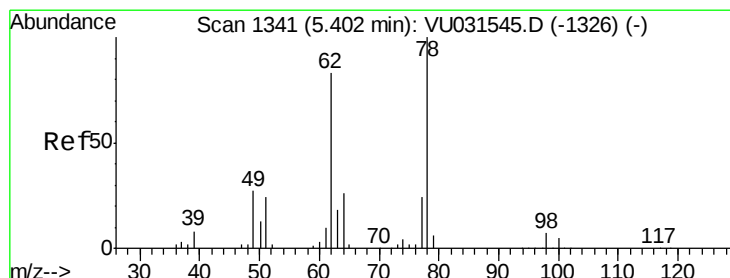
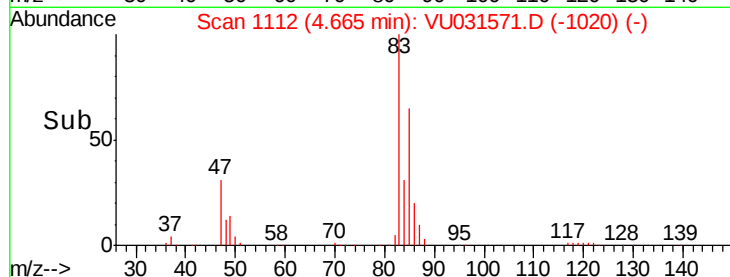
100000

50000

0

4.60 4.70 4.80

Time-->



#27

1,2-Dichloroethane

Concen: 49.067 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU031571.D

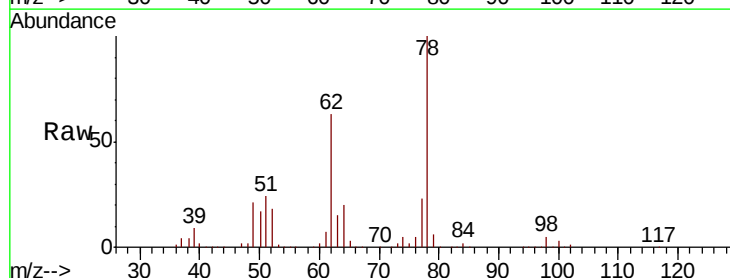
Acq: 29 Apr 2019 09:16

Tgt Ion: 62 Resp: 467286

Ion Ratio Lower Upper

62 100

98 7.9 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU031545.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU031545.D (-1326) (-)

5.40

250000

200000

150000

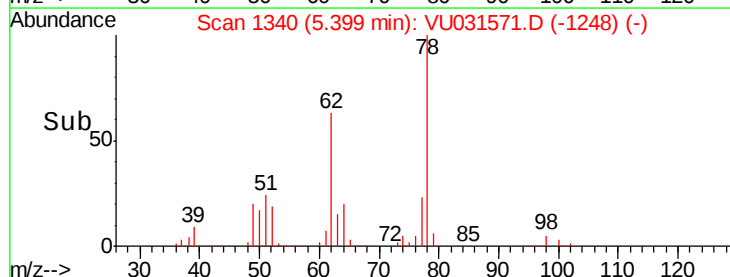
100000

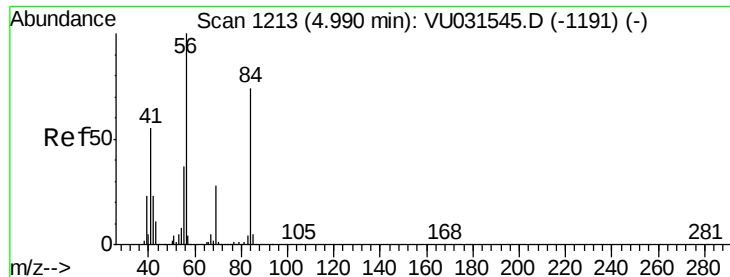
50000

0

5.30 5.40 5.50

Time-->

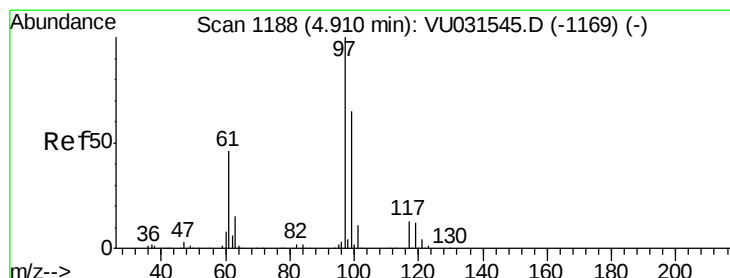
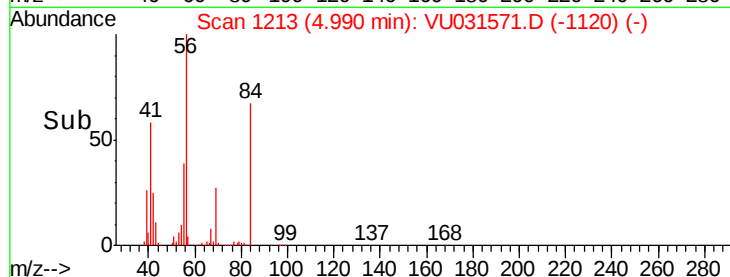
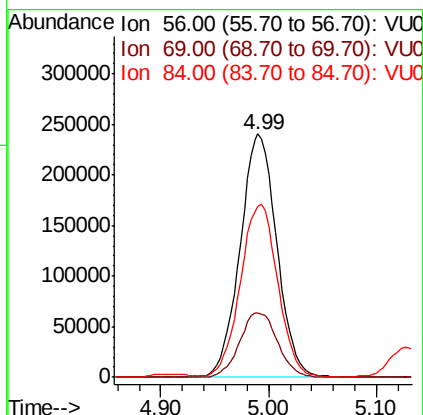
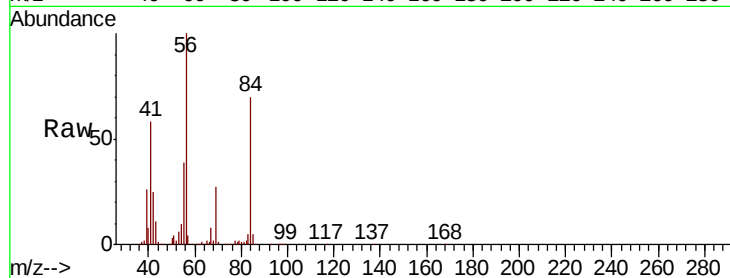




#29
Cyclohexane
Concen: 51.303 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031571.D
Acq: 29 Apr 2019 09:16

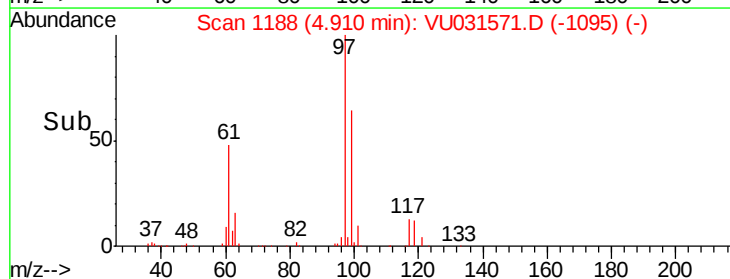
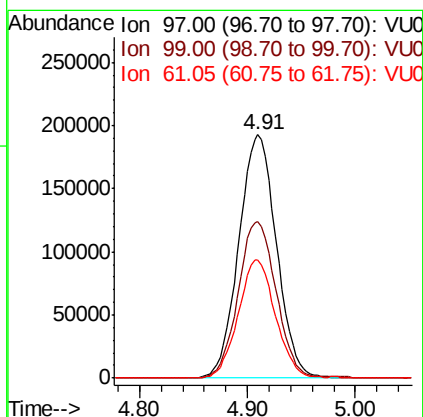
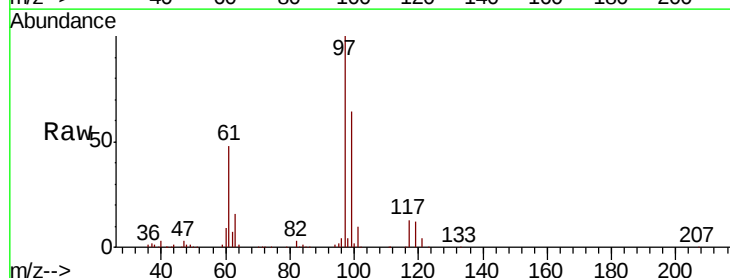
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

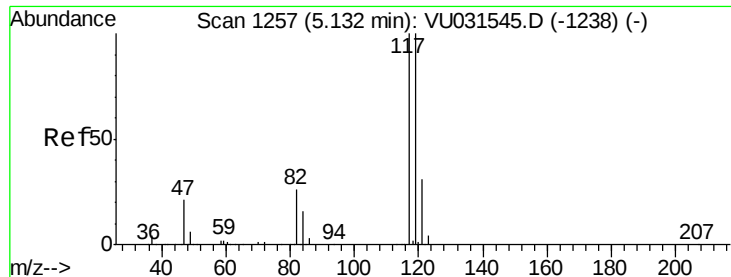
Tgt Ion: 56 Resp: 568267
Ion Ratio Lower Upper
56 100
69 27.4 22.3 33.5
84 71.8 57.5 86.3



#30
1,1,1-Trichloroethane
Concen: 47.781 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031571.D
Acq: 29 Apr 2019 09:16

Tgt Ion: 97 Resp: 468544
Ion Ratio Lower Upper
97 100
99 64.9 52.0 78.0
61 47.6 38.7 58.1





#31

Carbon tetrachloride

Concen: 48.660 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

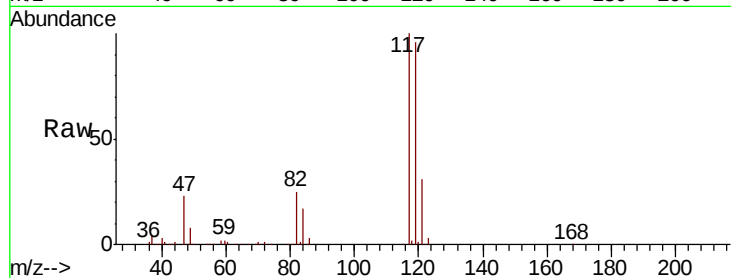
VSTD05052

Tgt Ion:117 Resp: 407850

Ion Ratio Lower Upper

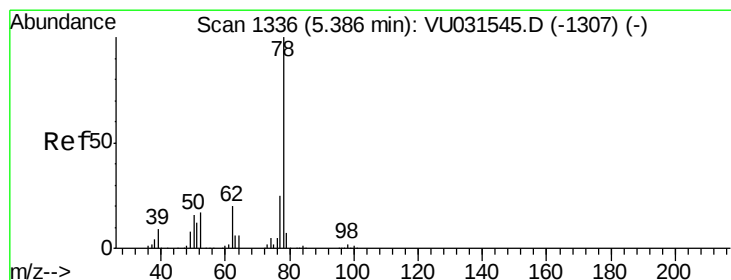
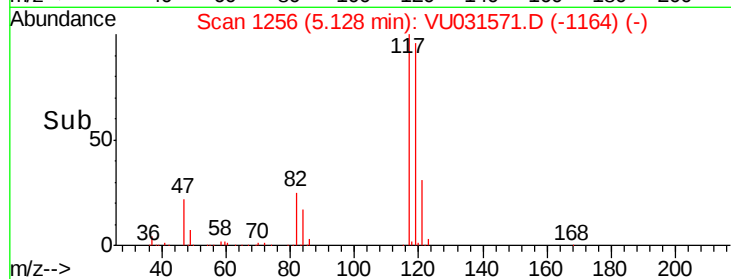
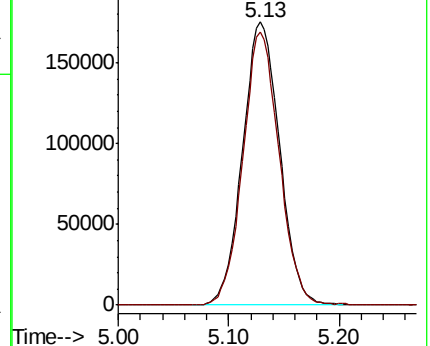
117 100

119 94.4 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.584 ug/L

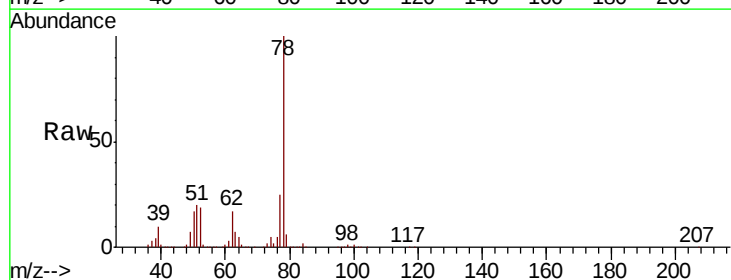
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

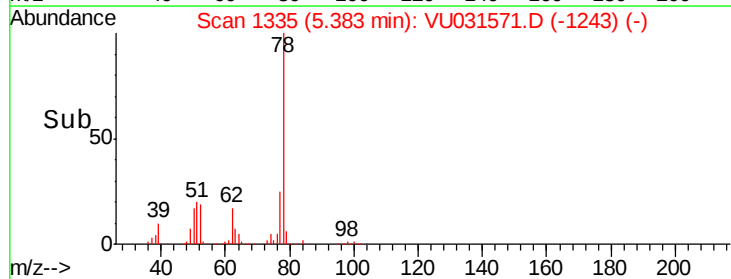
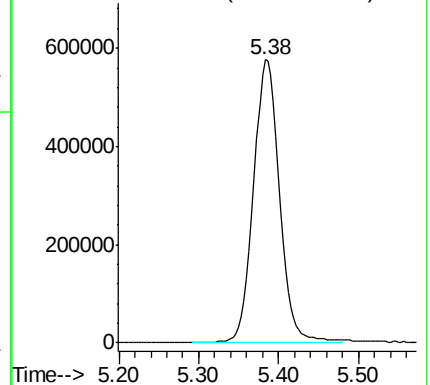
Lab File: VU031571.D

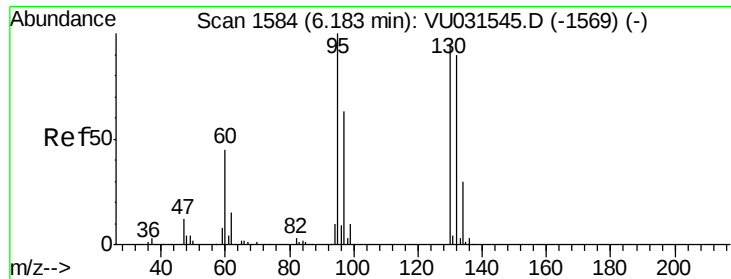
Acq: 29 Apr 2019 09:16

Tgt Ion: 78 Resp: 1275897



Abundance Ion 78.00 (77.70 to 78.70): VU0

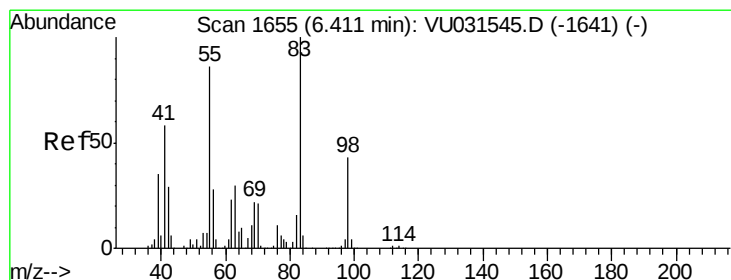
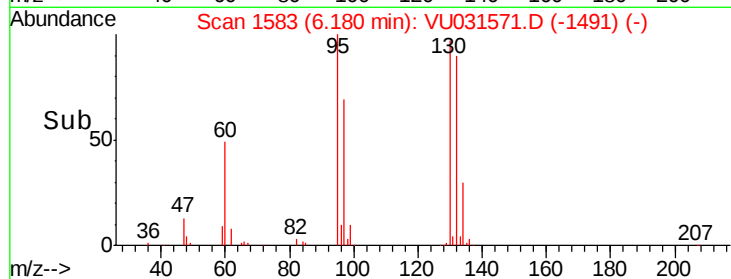
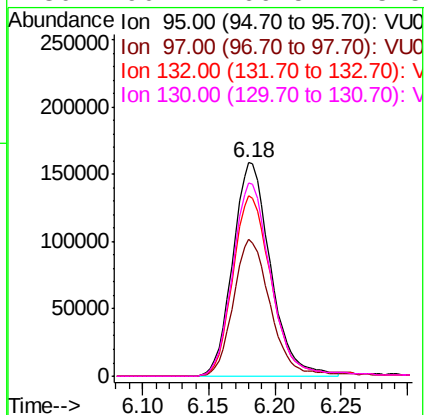
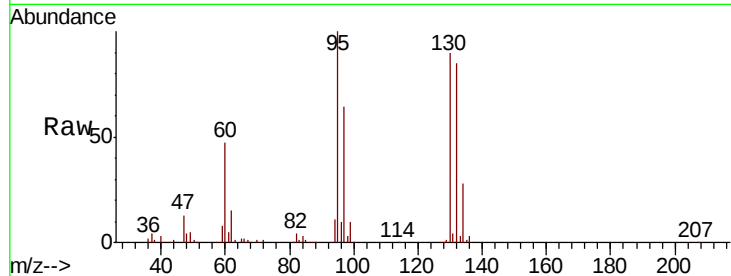




#34
 Trichloroethene
 Concen: 50.446 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

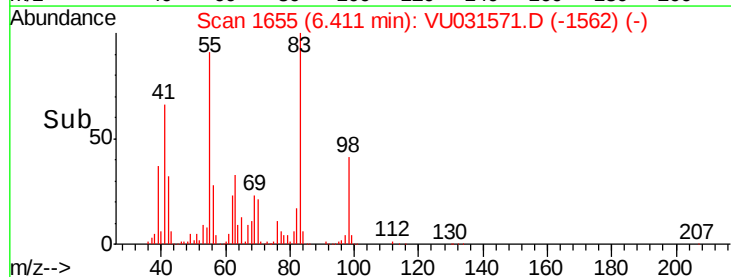
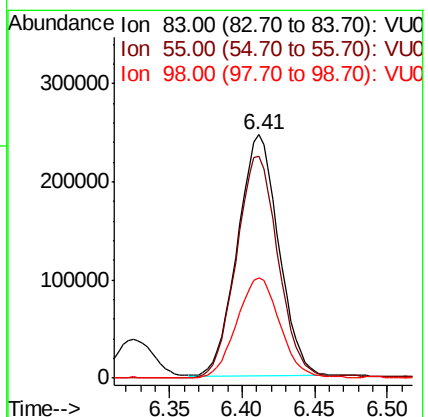
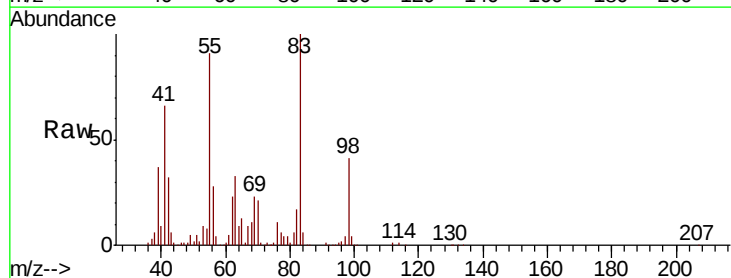
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

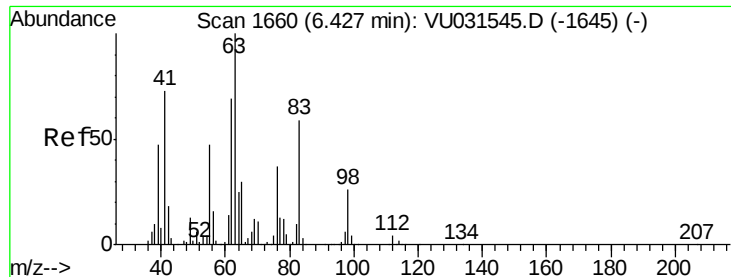
Tgt Ion:	95	Resp:	314655
Ion	Ratio	Lower	Upper
95	100		
97	64.2	44.8	83.2
132	84.5	63.1	117.1
130	90.2	66.5	123.5



#35
 Methylcyclohexane
 Concen: 52.118 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

Tgt Ion:	83	Resp:	487193
Ion	Ratio	Lower	Upper
83	100		
55	93.1	73.0	109.4
98	43.6	35.3	52.9





#37

1,2-Dichloropropane

Concen: 48.850 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

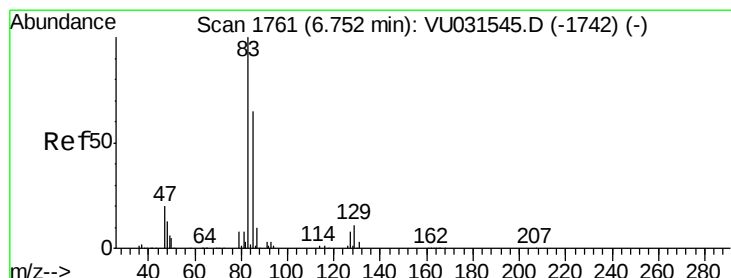
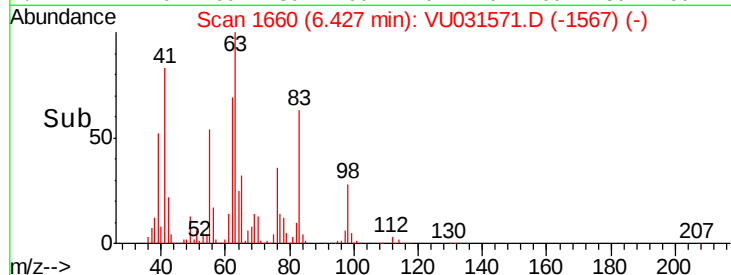
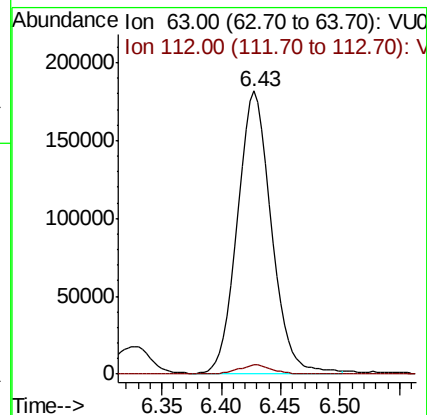
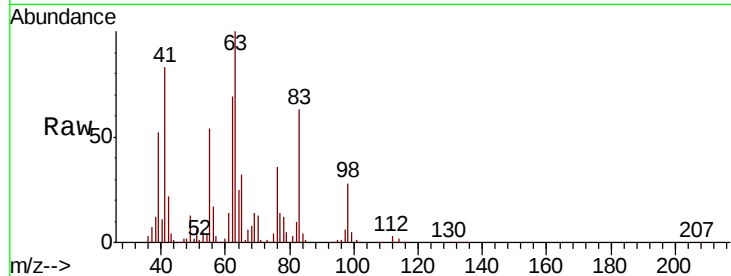
VSTD05052

Tgt Ion: 63 Resp: 356851

Ion Ratio Lower Upper

63 100

112 3.2 2.7 4.1



#38

Bromodichloromethane

Concen: 48.749 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

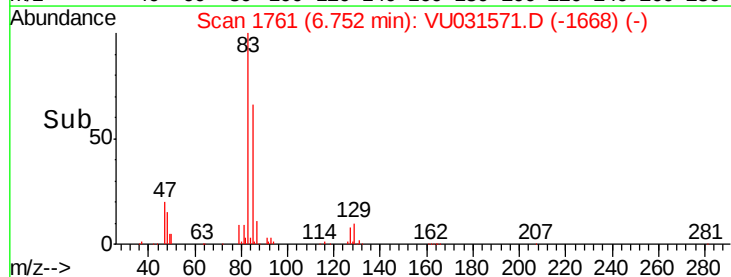
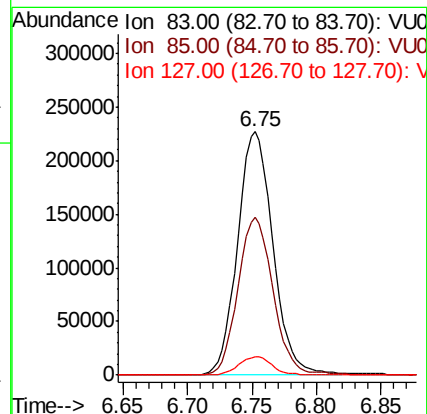
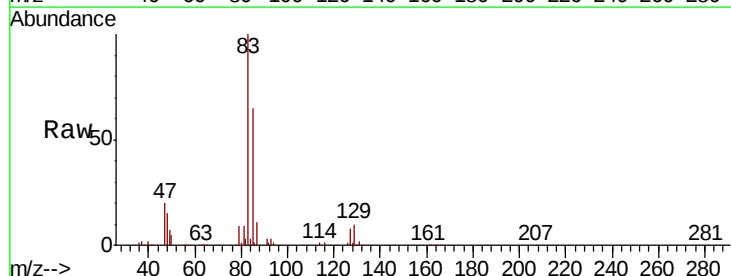
Tgt Ion: 83 Resp: 431782

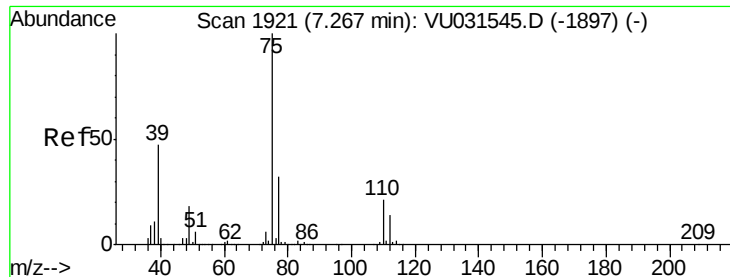
Ion Ratio Lower Upper

83 100

85 64.8 43.7 81.1

127 7.6 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 51.620 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

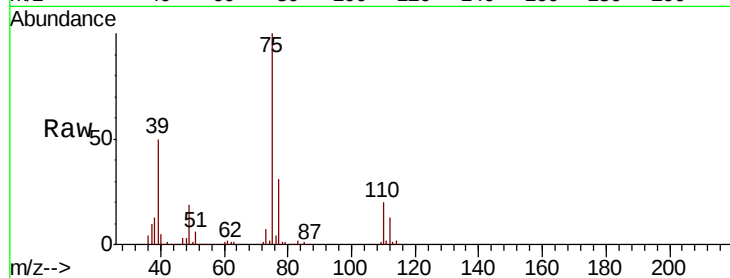
VSTD05052

Tgt Ion: 75 Resp: 498270

Ion Ratio Lower Upper

75 100

77 30.7 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031545.D (-1897) (-)

Ion 77.00 (76.70 to 77.70): VU031545.D (-1897) (-)

7.26

300000

250000

200000

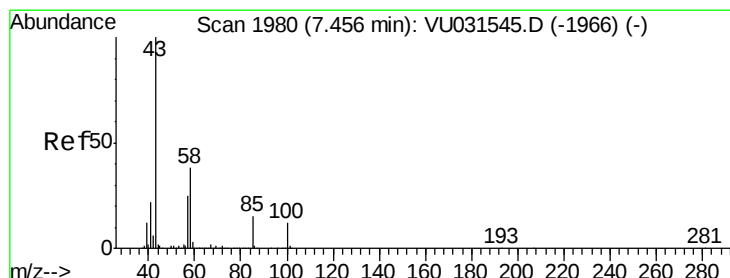
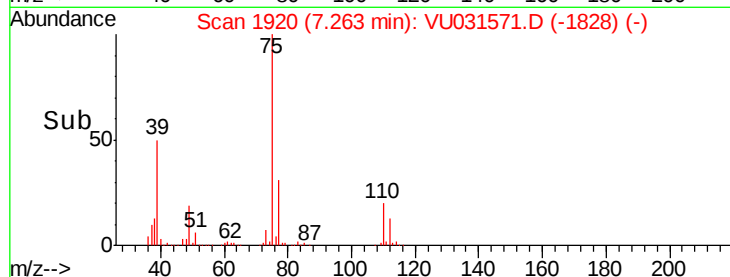
150000

100000

50000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 102.031 ug/L

RT: 7.46 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

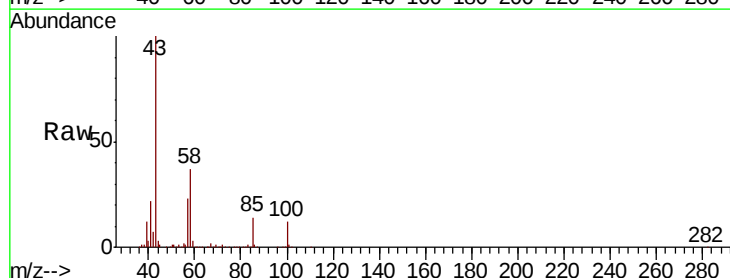
Tgt Ion: 43 Resp: 1146743

Ion Ratio Lower Upper

43 100

58 36.9 30.1 45.1

100 11.3 9.6 14.4



Abundance Ion 43.00 (42.70 to 43.70): VU031545.D (-1966) (-)

Ion 58.00 (57.70 to 58.70): VU031545.D (-1966) (-)

Ion 100.00 (99.70 to 100.70): VU031545.D (-1966) (-)

7.46

800000

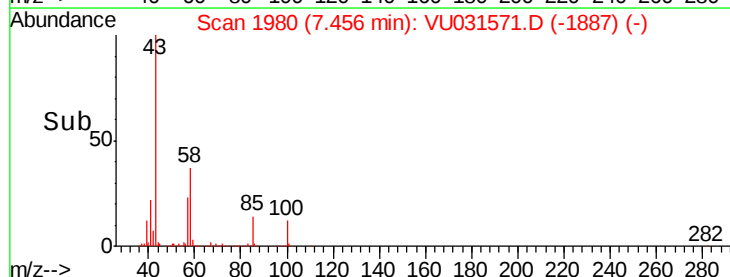
600000

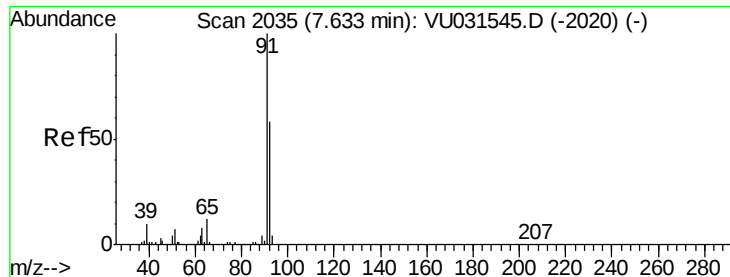
400000

200000

0

Time-->





#42

Toluene

Concen: 49.727 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

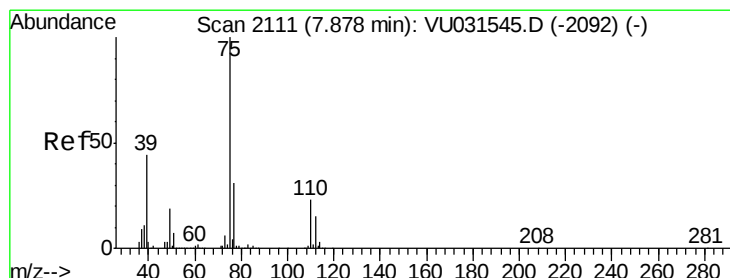
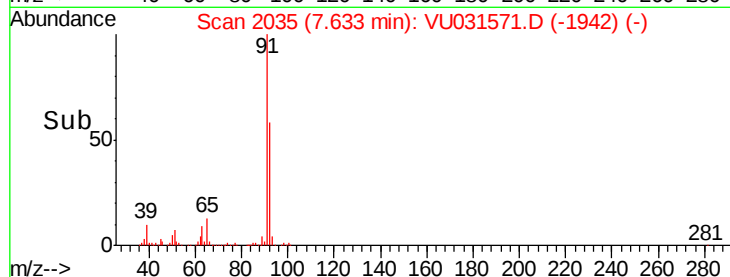
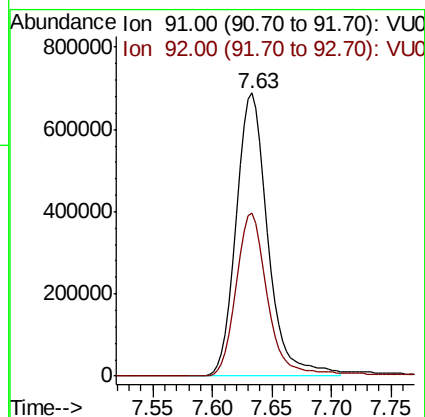
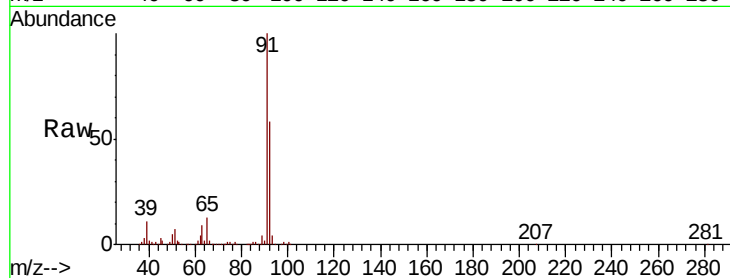
VSTD05052

Tgt Ion: 91 Resp: 1274606

Ion Ratio Lower Upper

91 100

92 57.6 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 51.582 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031571.D

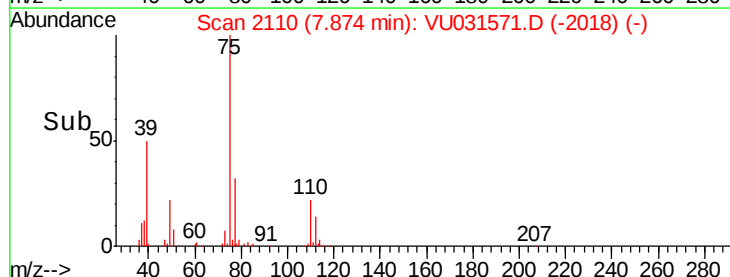
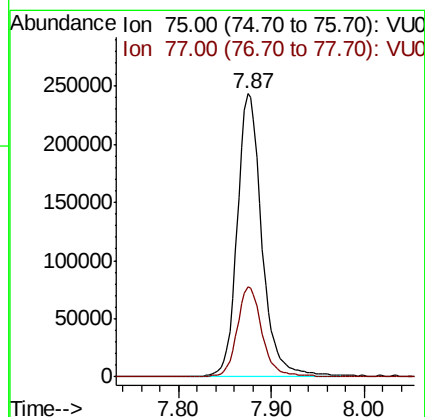
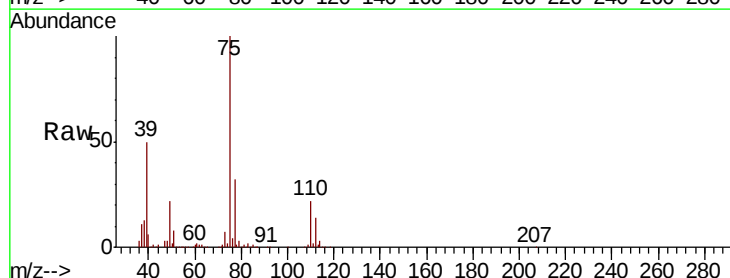
Acq: 29 Apr 2019 09:16

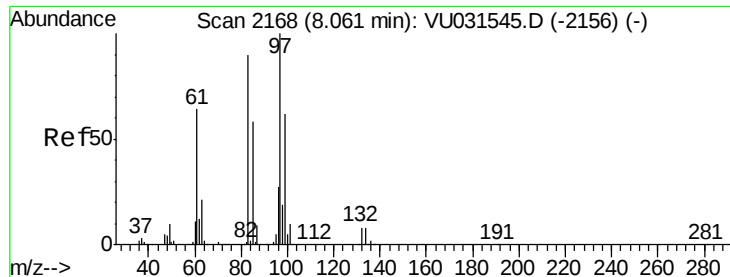
Tgt Ion: 75 Resp: 451604

Ion Ratio Lower Upper

75 100

77 31.6 22.1 41.1

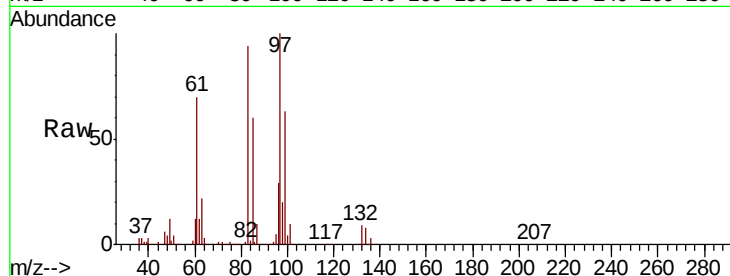




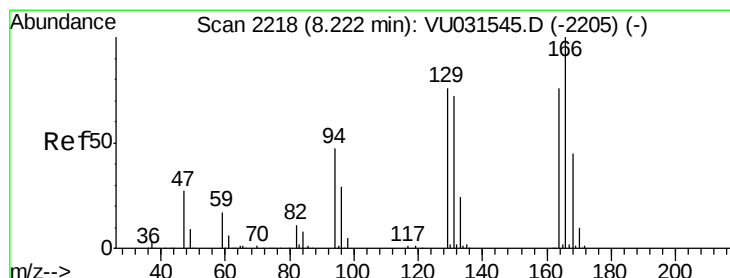
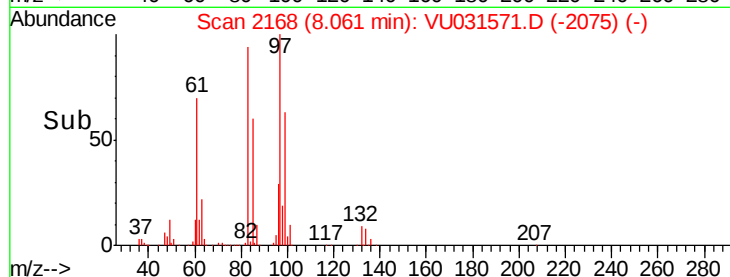
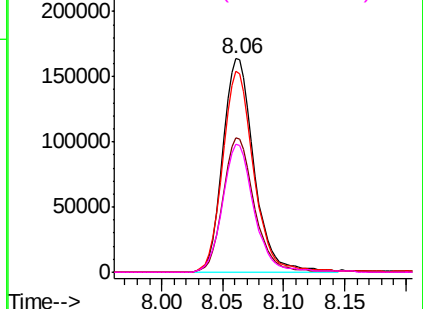
#45
 1,1,2-Trichloroethane
 Concen: 49.134 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:	97	Resp:	295897
Ion	Ratio	Lower	Upper
97	100		
99	63.0	43.0	80.0
83	94.2	63.6	118.2
85	59.7	40.5	75.3

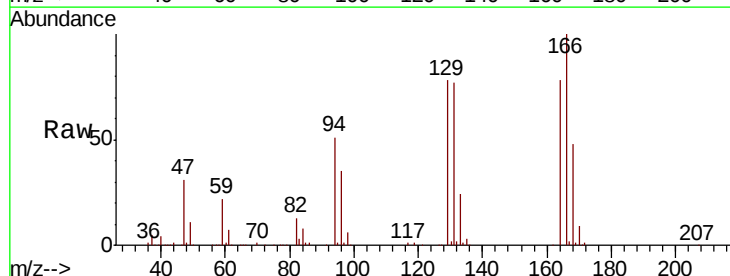


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

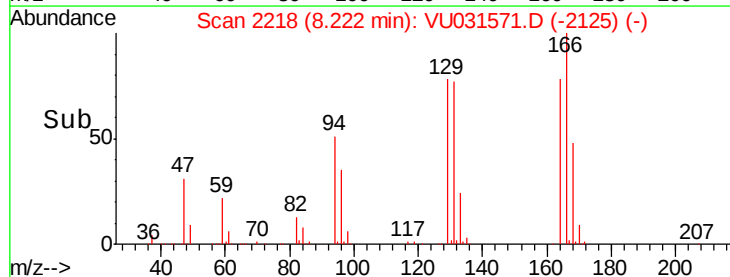
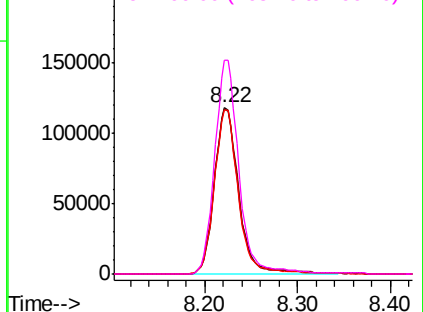


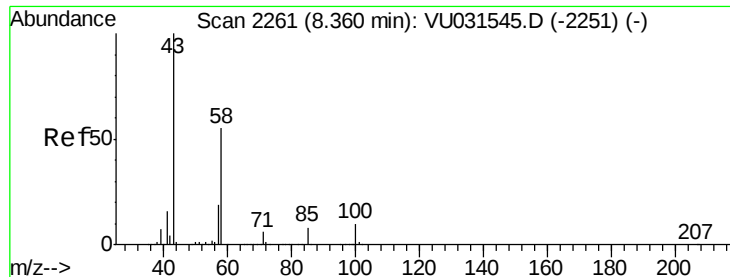
#46
 Tetrachloroethene
 Concen: 50.319 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

Tgt Ion:	164	Resp:	213974
Ion	Ratio	Lower	Upper
164	100		
129	99.8	71.5	132.9
131	99.0	69.0	128.2
166	128.6	93.7	173.9



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

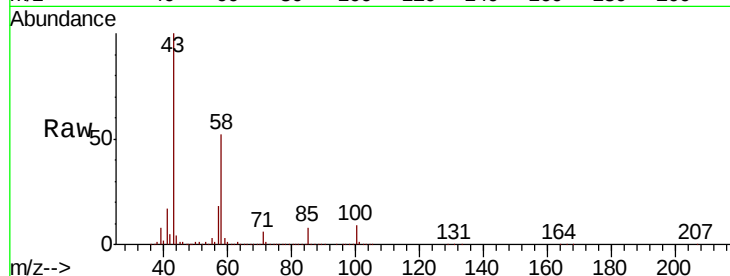




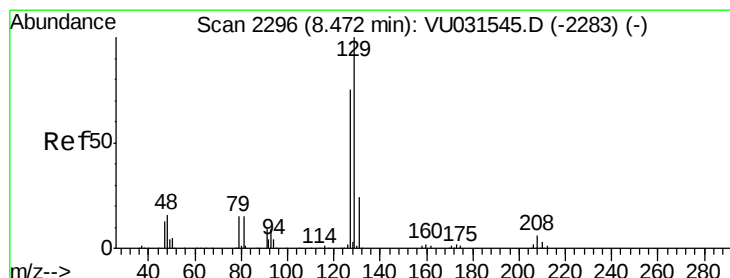
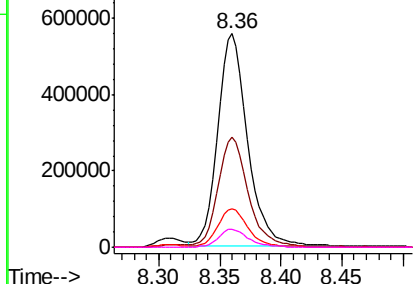
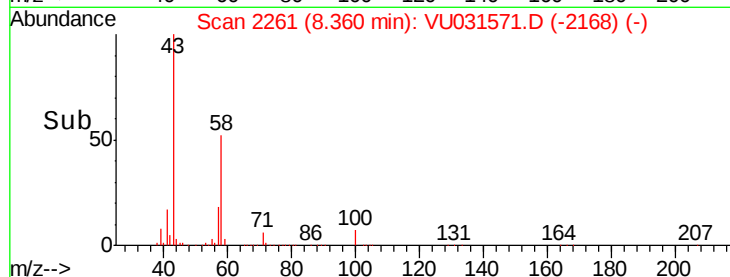
#48
2-Hexanone
Concen: 105.462 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031571.D
Acq: 29 Apr 2019 09:16

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Tgt Ion: 43 Resp: 958659
Ion Ratio Lower Upper
43 100
58 52.3 42.1 63.1
57 18.3 14.6 22.0
100 8.6 7.2 10.8

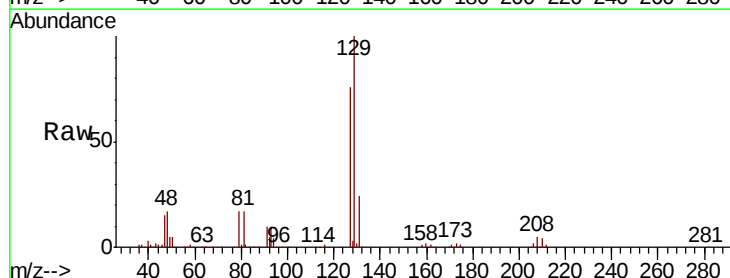


Abundance Ion 43.00 (42.70 to 43.70): VU031571.D (-2168) (-)
Ion 58.00 (57.70 to 58.70): VU031571.D (-2168) (-)
Ion 57.00 (56.70 to 57.70): VU031571.D (-2168) (-)
Ion 100.00 (99.70 to 100.70): VU031571.D (-2168) (-)

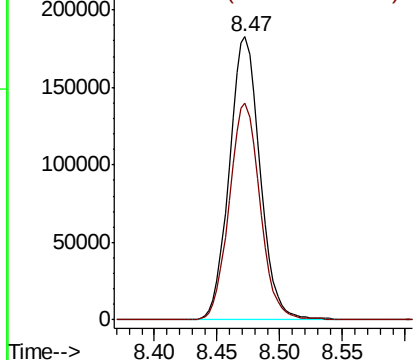
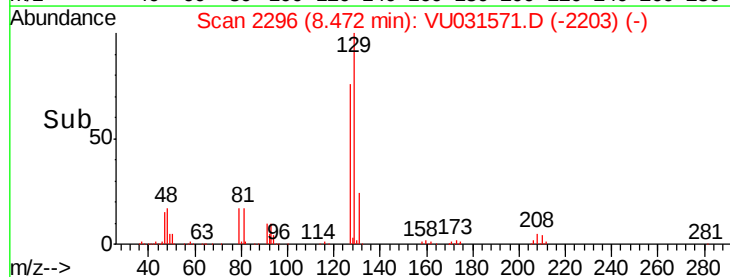


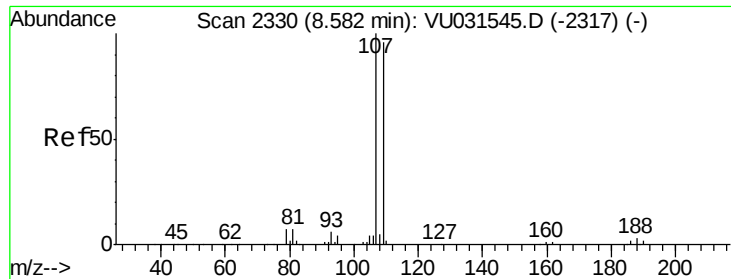
#49
Dibromochloromethane
Concen: 49.650 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031571.D
Acq: 29 Apr 2019 09:16

Tgt Ion: 129 Resp: 311111
Ion Ratio Lower Upper
129 100
127 76.5 54.0 100.2



Abundance Ion 129.00 (128.70 to 129.70): VU031571.D (-2203) (-)
Ion 127.00 (126.70 to 127.70): VU031571.D (-2203) (-)

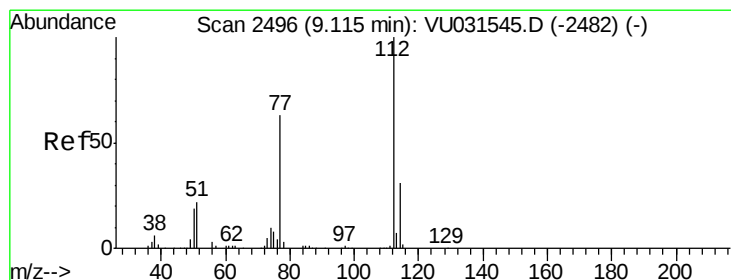
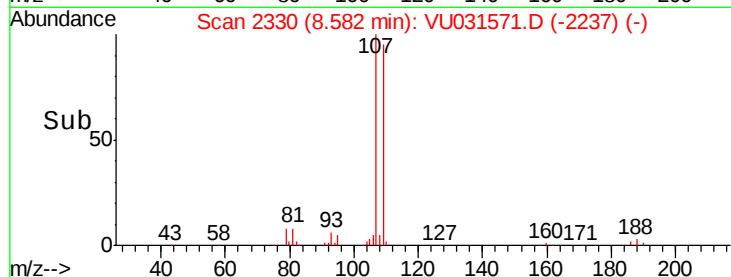
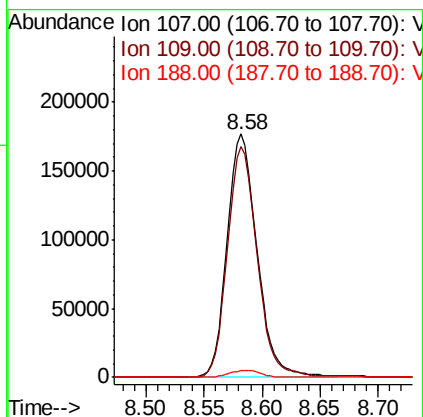
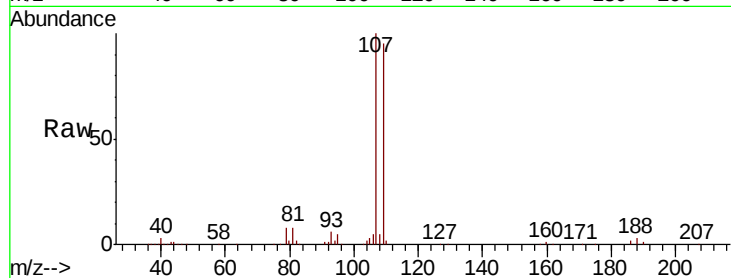




#50
 1,2-Dibromoethane
 Concen: 49.529 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

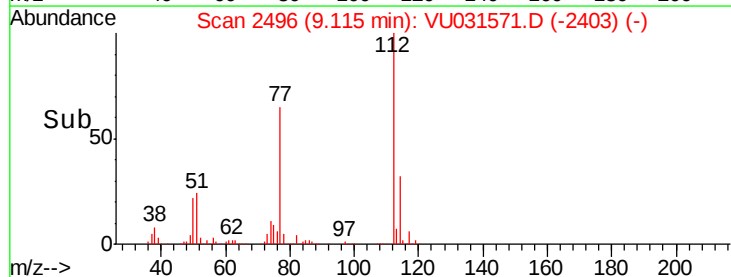
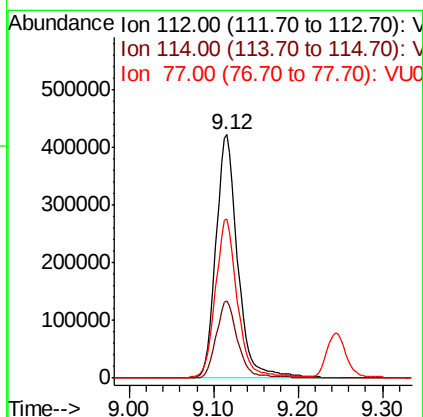
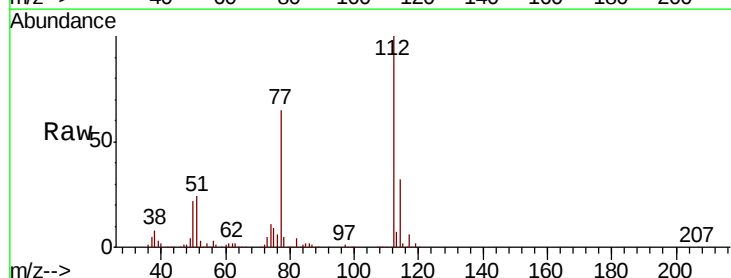
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

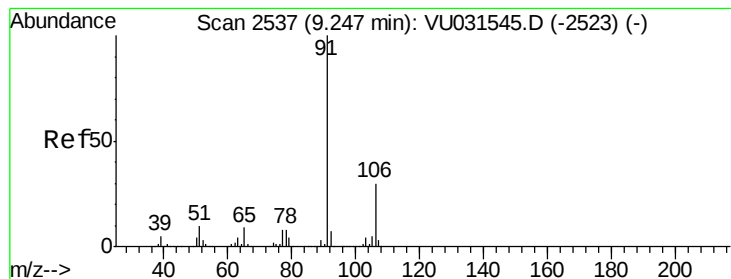
Tgt Ion:107 Resp: 315019
 Ion Ratio Lower Upper
 107 100
 109 95.0 64.9 120.5
 188 2.7 2.4 3.6



#51
 Chlorobenzene
 Concen: 50.127 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

Tgt Ion:112 Resp: 759281
 Ion Ratio Lower Upper
 112 100
 114 31.9 23.3 43.3
 77 65.3 53.0 79.4





#52

Ethylbenzene

Concen: 52.283 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

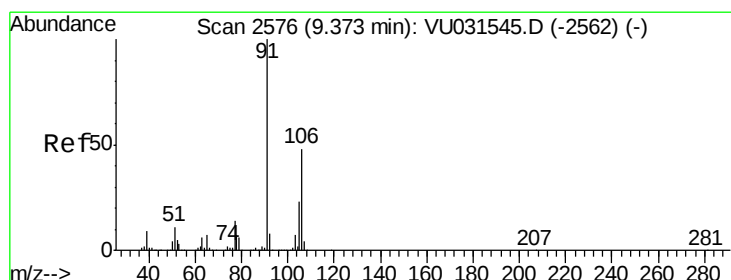
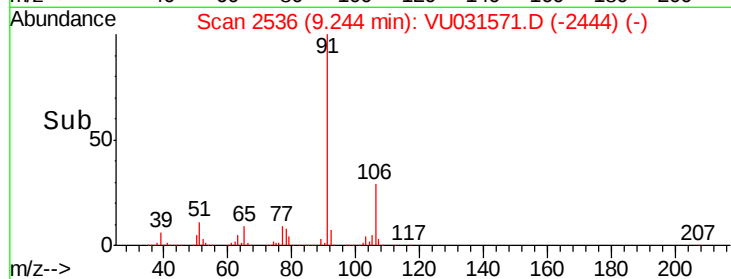
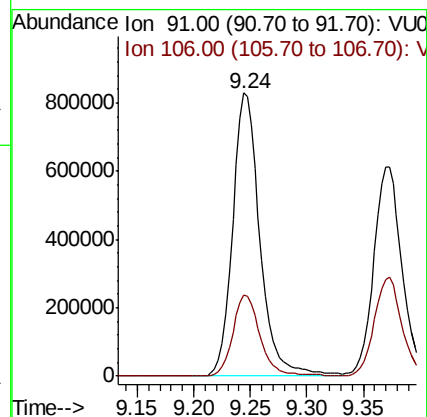
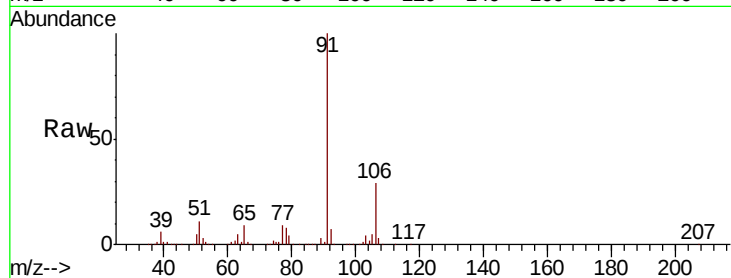
VSTD05052

Tgt Ion: 91 Resp: 1390146

Ion Ratio Lower Upper

91 100

106 28.6 20.4 37.8



#53

m,p-Xylene

Concen: 54.560 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031571.D

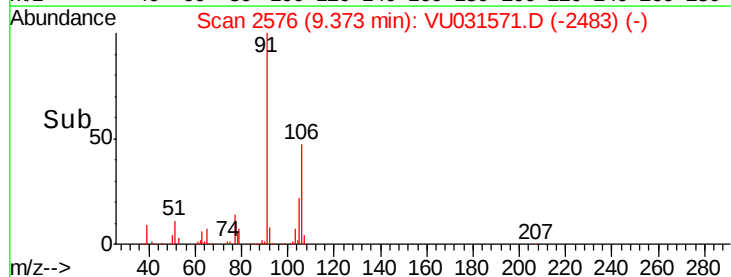
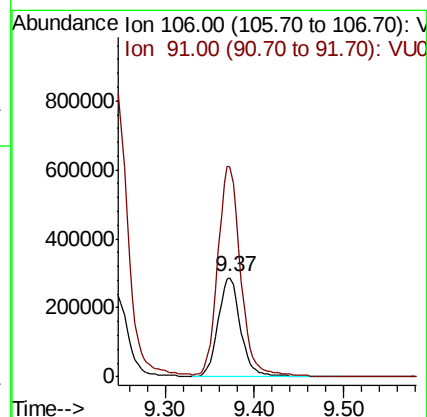
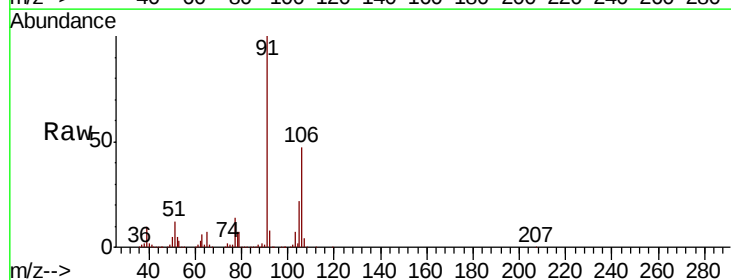
Acq: 29 Apr 2019 09:16

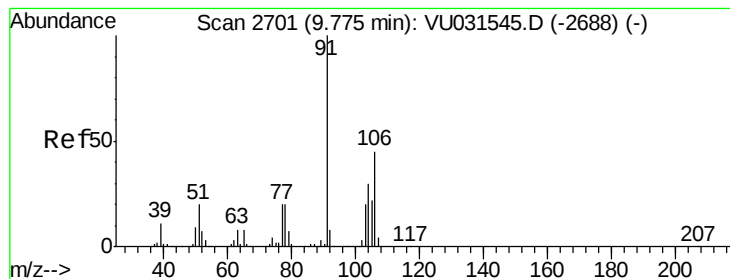
Tgt Ion: 106 Resp: 505432

Ion Ratio Lower Upper

106 100

91 211.9 152.2 282.6





#54

o-xylene

Concen: 53.456 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

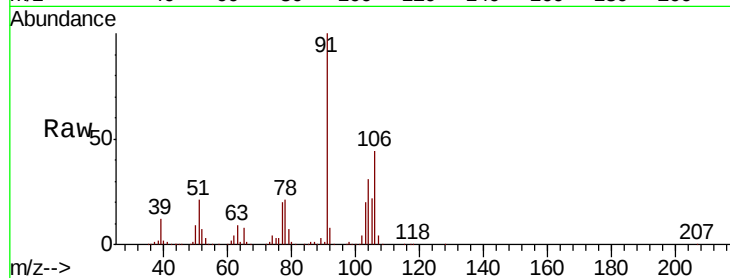
VSTD05052

Tgt Ion:106 Resp: 490952

Ion Ratio Lower Upper

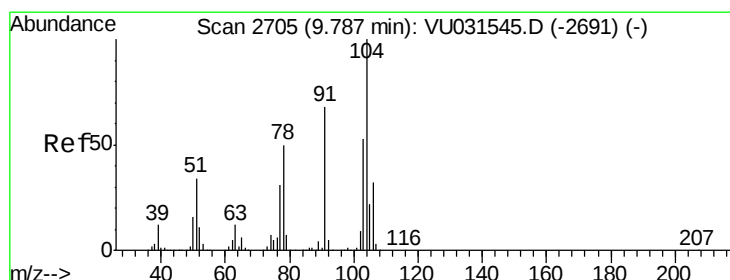
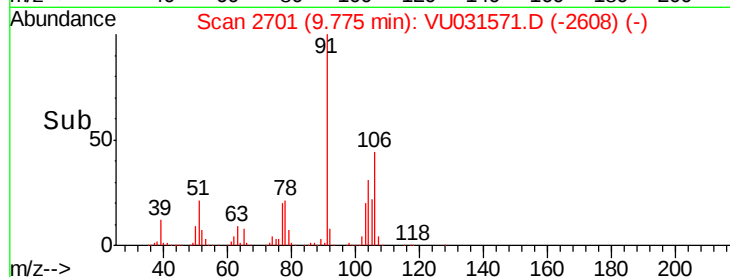
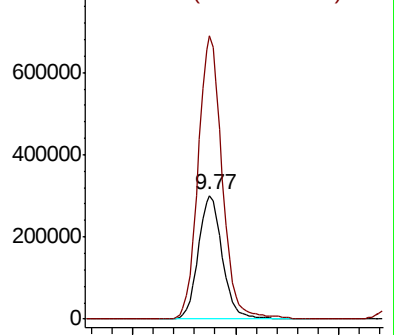
106 100

91 228.3 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.299 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031571.D

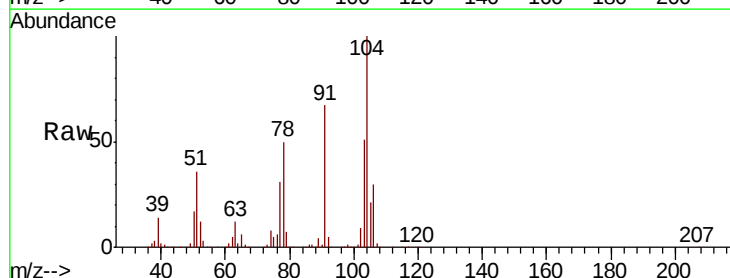
Acq: 29 Apr 2019 09:16

Tgt Ion:104 Resp: 852008

Ion Ratio Lower Upper

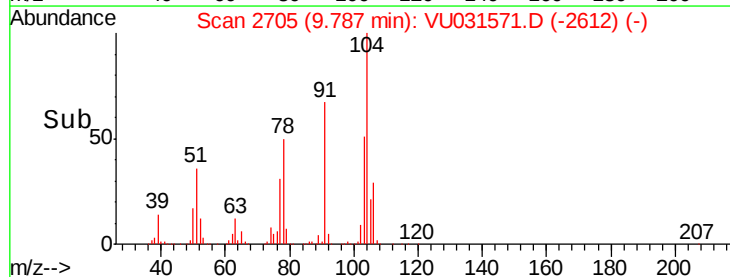
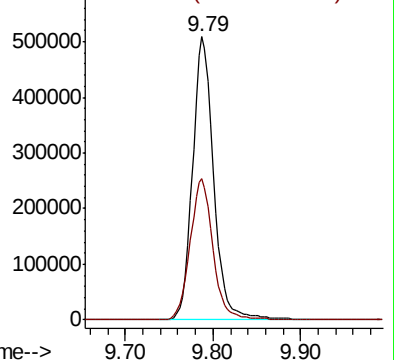
104 100

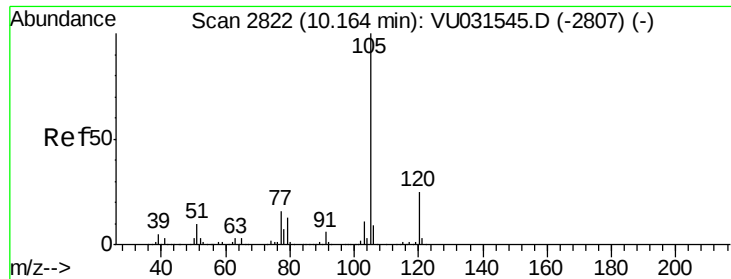
78 49.8 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

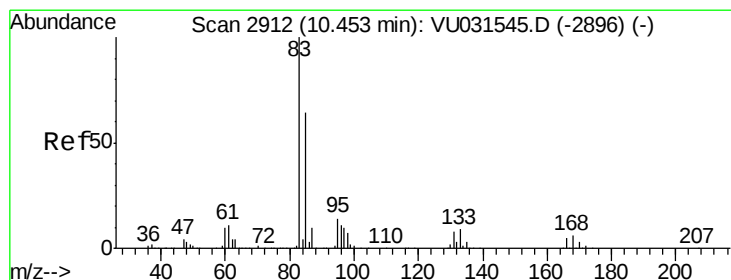
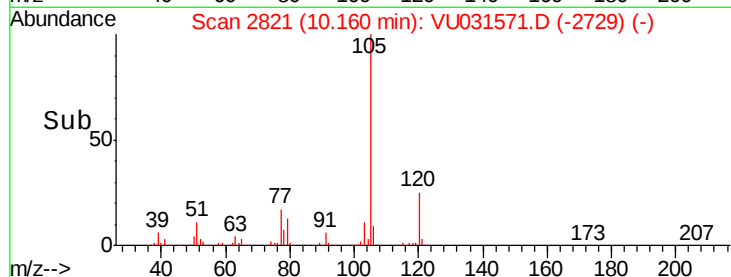
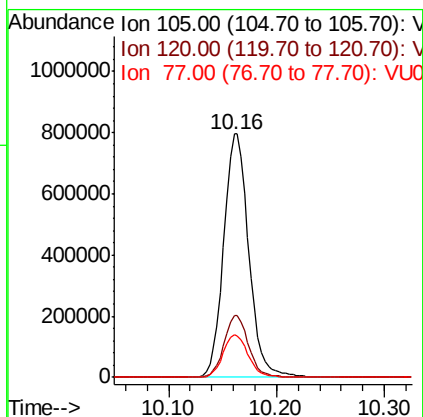
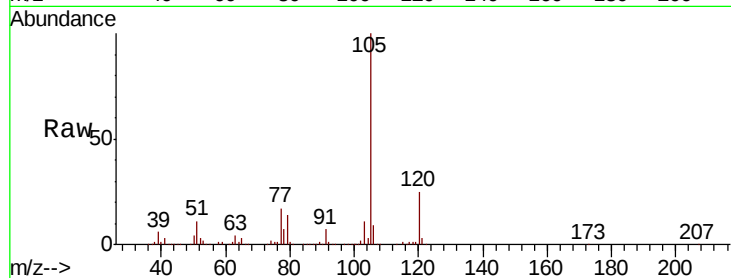




#56
Isopropylbenzene
Concen: 53.399 ug/L
RT: 10.16 min Scan# 2821
Delta R.T. -0.00 min
Lab File: VU031571.D
Acq: 29 Apr 2019 09:16

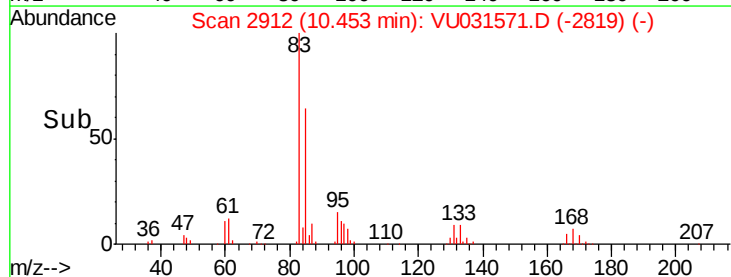
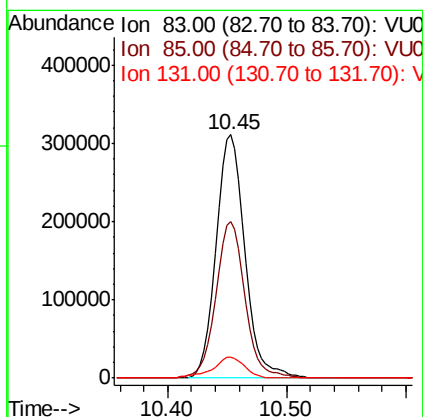
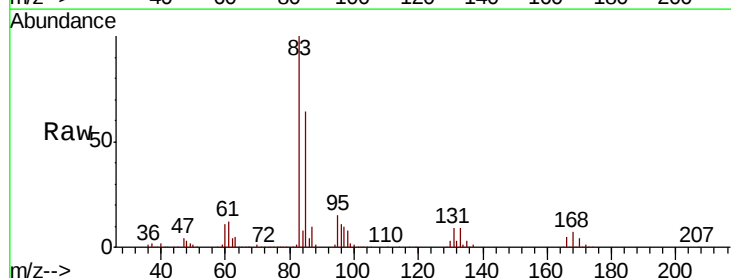
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

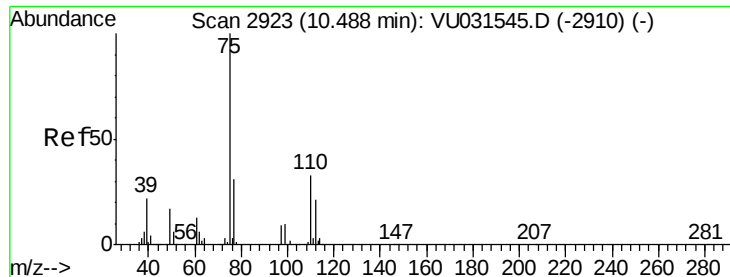
Tgt Ion:105 Resp: 1289623
Ion Ratio Lower Upper
105 100
120 24.8 20.1 30.1
77 17.5 13.8 20.6



#58
1,1,2,2-Tetrachloroethane
Concen: 48.884 ug/L
RT: 10.45 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VU031571.D
Acq: 29 Apr 2019 09:16

Tgt Ion: 83 Resp: 522393
Ion Ratio Lower Upper
83 100
85 64.5 46.0 85.4
131 8.8 7.3 10.9





#59

1,2,3-Trichloropropane

Concen: 48.713 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

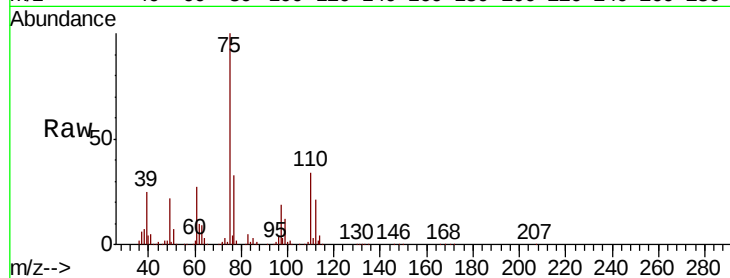
VSTD05052

Tgt Ion: 75 Resp: 421907

Ion Ratio Lower Upper

75 100

77 32.8 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU031571.D (-2301) (-)

Ion 77.00 (76.70 to 77.70): VU031571.D (-2301) (-)

10.49

250000

200000

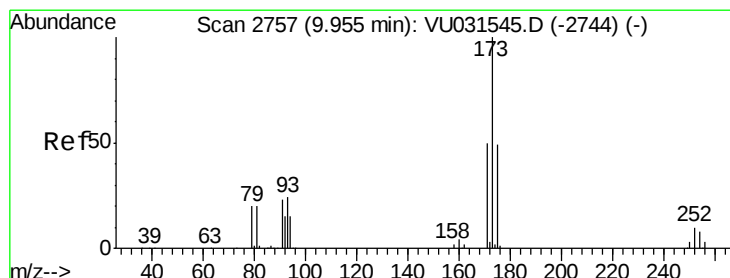
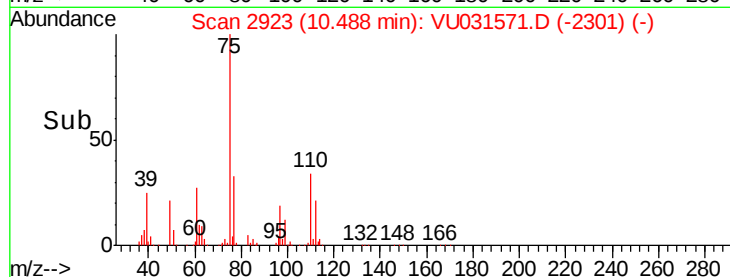
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 47.214 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

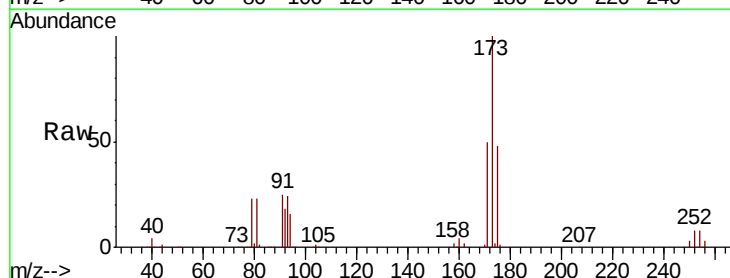
Tgt Ion: 173 Resp: 220487

Ion Ratio Lower Upper

173 100

175 48.3 38.3 57.5

254 7.7 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VU031571.D (-2664) (-)

Ion 175.00 (174.70 to 175.70): VU031571.D (-2664) (-)

Ion 254.00 (253.70 to 254.70): VU031571.D (-2664) (-)

9.95

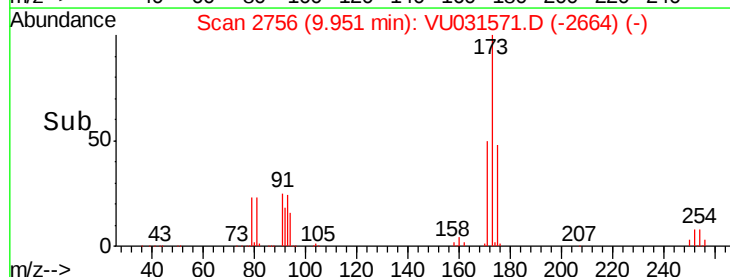
150000

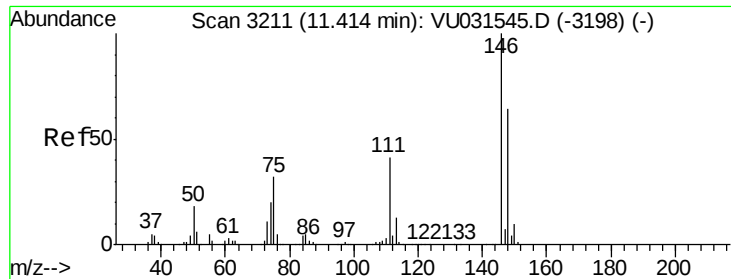
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 50.960 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

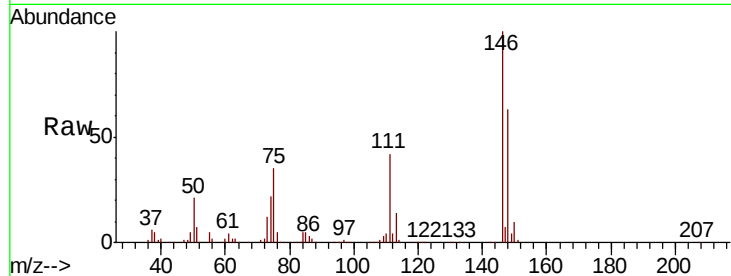
Tgt Ion:146 Resp: 531425

Ion Ratio Lower Upper

146 100

111 41.8 29.8 55.4

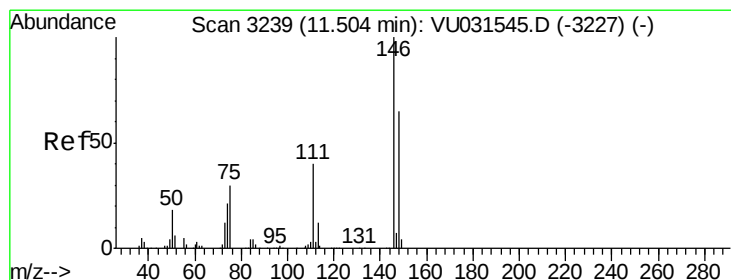
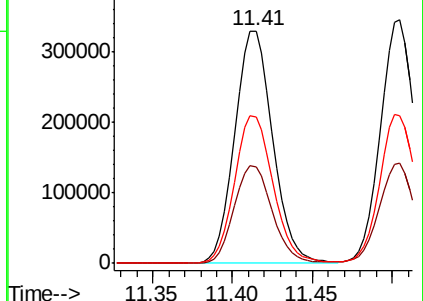
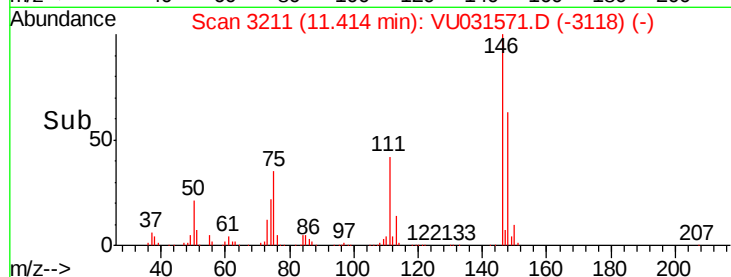
148 63.3 45.1 83.9



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: 49.893 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

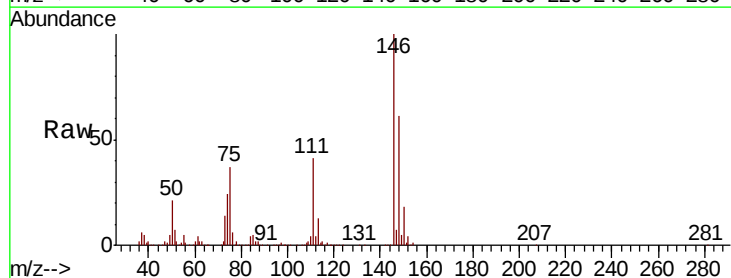
Tgt Ion:146 Resp: 538842

Ion Ratio Lower Upper

146 100

111 41.1 28.2 52.4

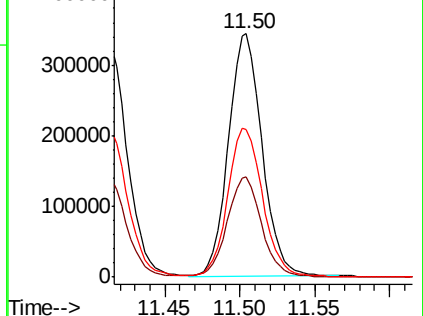
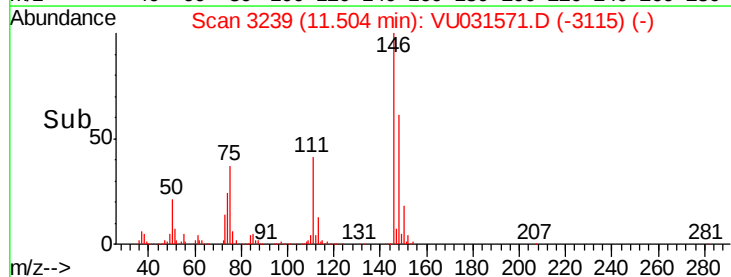
148 60.7 45.4 84.4

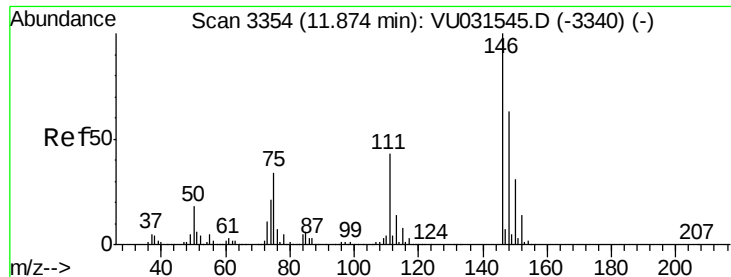


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

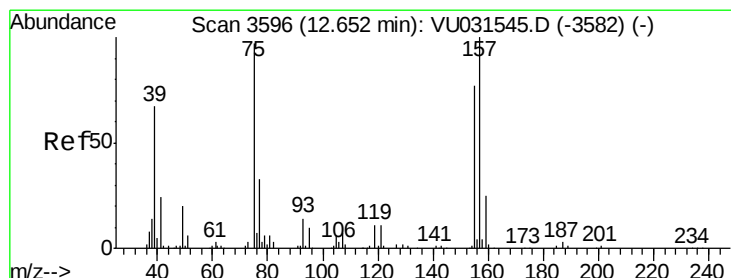
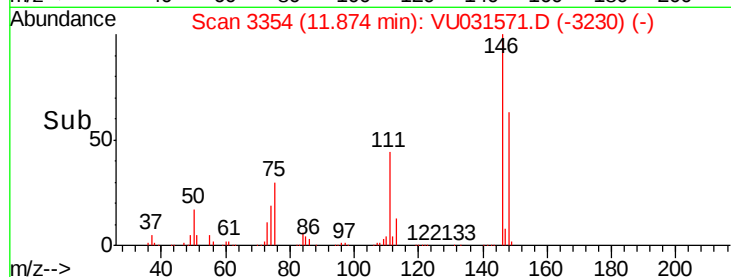
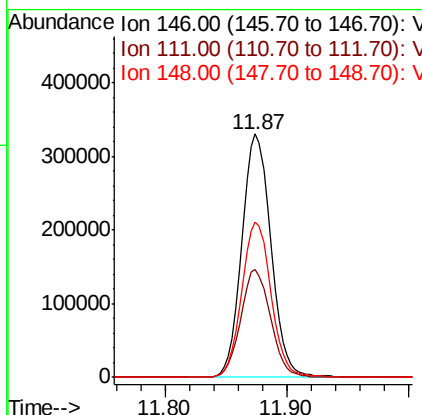
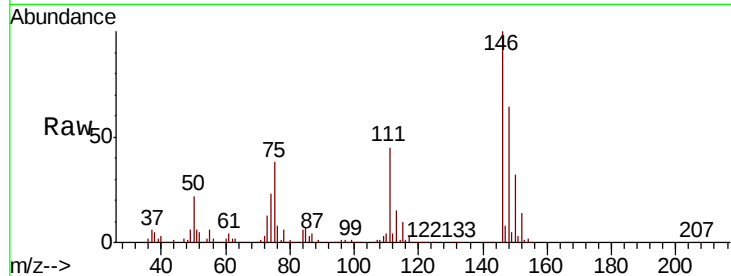




#65
 1,2-Dichlorobenzene
 Concen: 48.949 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

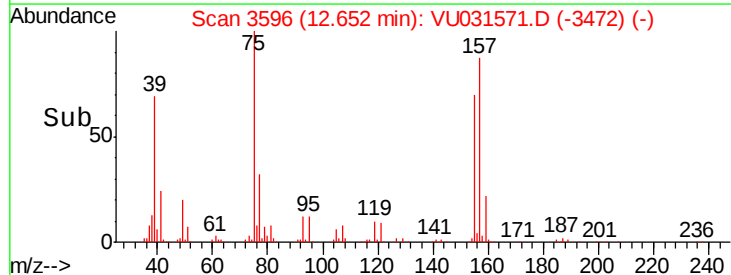
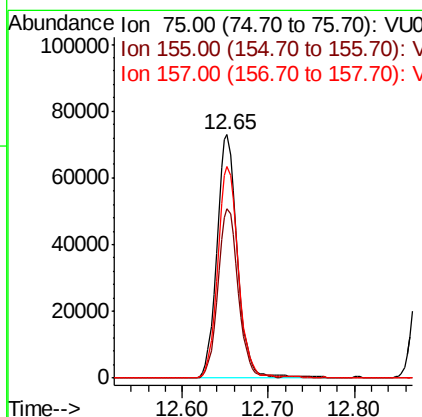
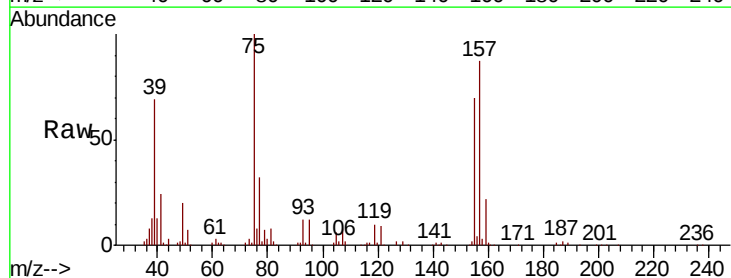
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

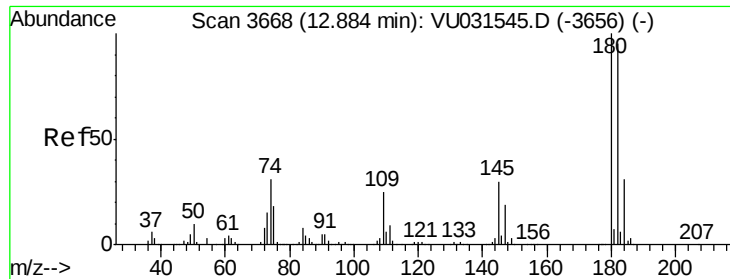
Tgt Ion: 146 Resp: 542509
 Ion Ratio Lower Upper
 146 100
 111 44.5 35.9 53.9
 148 63.7 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.147 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

Tgt Ion: 75 Resp: 121274
 Ion Ratio Lower Upper
 75 100
 155 69.5 54.0 81.0
 157 86.8 69.1 103.7

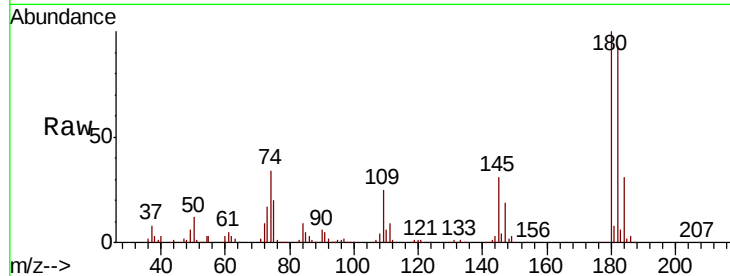




#67
 1,3,5-Trichlorobenzene
 Concen: 51.098 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:	180	Resp:	399110
Ion	Ratio	Lower	Upper
180	100		
182	93.5	77.3	115.9
184	30.7	24.4	36.6
145	30.9	23.8	35.8



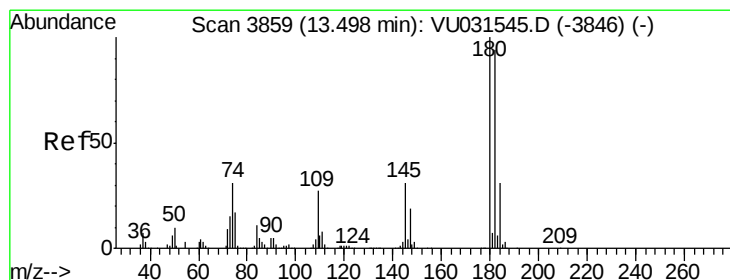
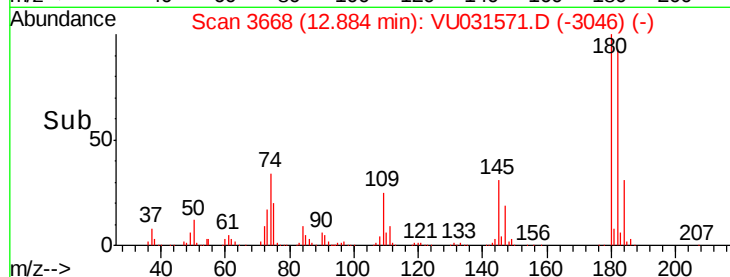
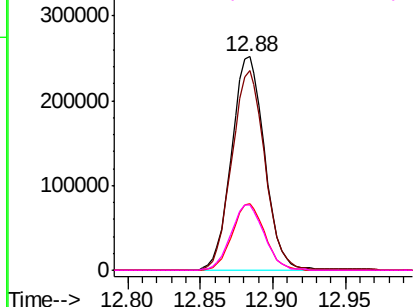
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

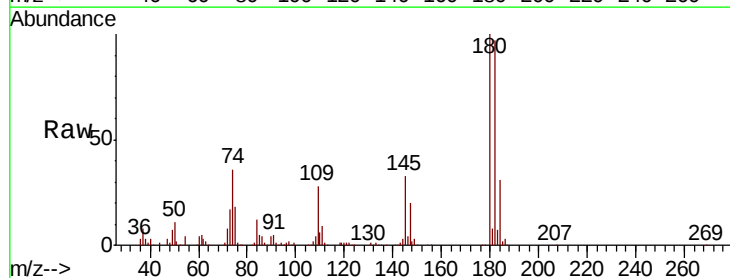
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 53.666 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031571.D
 Acq: 29 Apr 2019 09:16

Tgt Ion:	180	Resp:	331837
Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.8	113.8
145	31.2	24.5	36.7

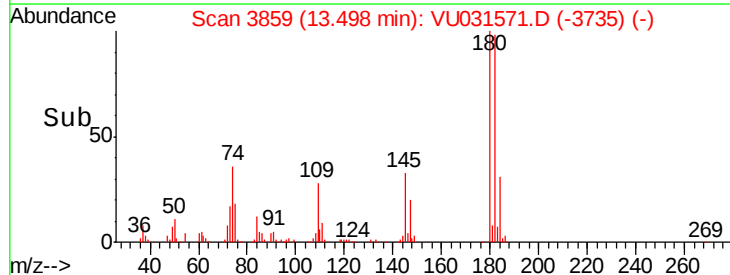
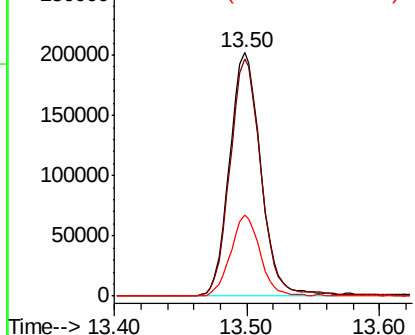


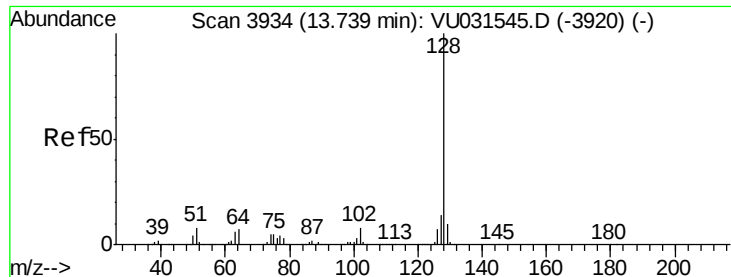
Abundance

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: 53.222 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

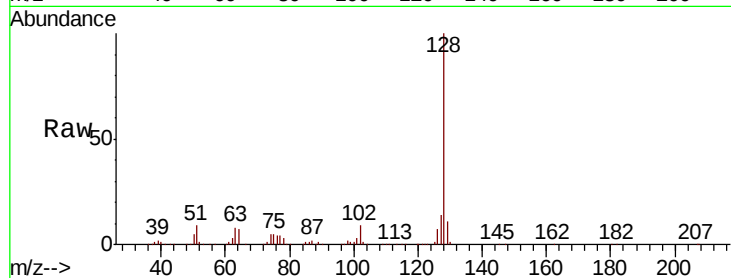
Tgt Ion:128 Resp: 1122058

Ion Ratio Lower Upper

128 100

127 13.4 10.6 15.8

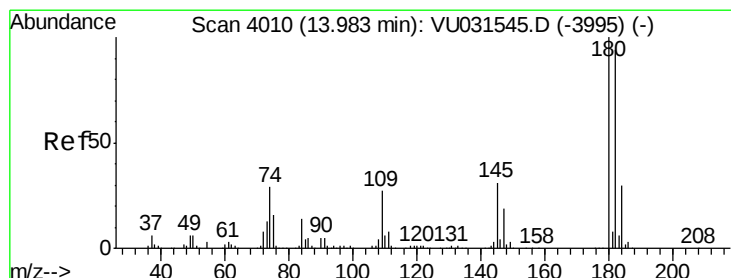
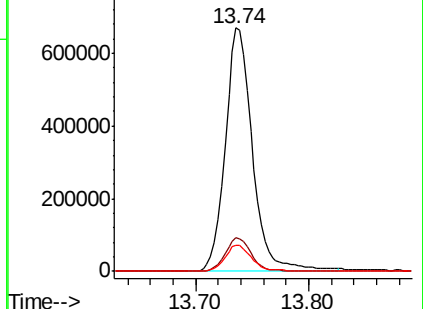
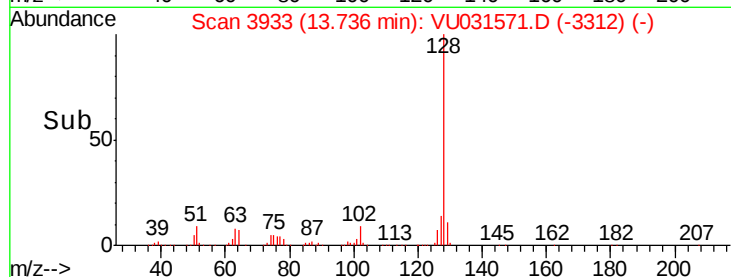
129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.945 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031571.D

Acq: 29 Apr 2019 09:16

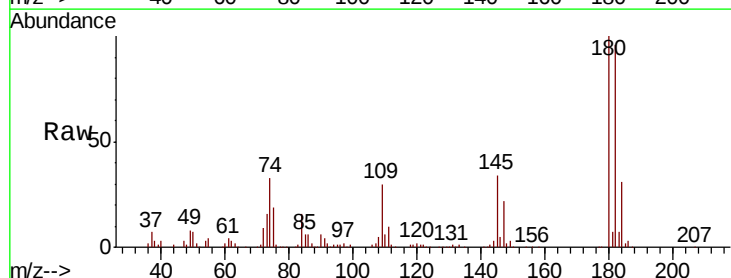
Tgt Ion:180 Resp: 344560

Ion Ratio Lower Upper

180 100

182 95.8 76.1 114.1

145 32.9 26.0 39.0



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

