

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010419\
 Data File : VU029015.D
 Acq On : 04 Jan 2019 09:37
 Operator : MD/SY
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Quant Time: Jan 04 22:14:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR122818WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jan 03 03:47:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	98591	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	93049	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	43839	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	32006	6.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	121.40%
7) Chloroethane-d5	1.68	69	26416	5.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	114.80%
11) 1,1-Dichloroethene-d2	2.27	63	58982	5.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.60%
20) 2-Butanone-d5	4.20	46	79617	57.74	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.48%
24) Chloroform-d	4.65	84	57413	5.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.00%
26) 1,2-Dichloroethane-d4	5.31	65	27991	5.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.00%
32) Benzene-d6	5.34	84	120218	5.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.60%
36) 1,2-Dichloropropane-d6	6.33	67	40106	5.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	115.40%
41) Toluene-d8	7.56	98	111705	5.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.00%
43) trans-1,3-Dichloropropene-	7.85	79	15232	5.83	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	116.60%
46) 2-Hexanone-d5	8.31	63	73754	61.87	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	123.74%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	30650	5.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	38954	5.31	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	43285	5.013 ug/L	100
3) Chloromethane	1.32	50	49124	5.098 ug/L	99
5) Vinyl chloride	1.40	62	50507	5.130 ug/L	97
6) Bromomethane	1.63	94	22173	4.865 ug/L	100
8) Chloroethane	1.70	64	28350	5.046 ug/L	99
9) Trichlorofluoromethane	1.88	101	52479	4.662 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	33401	4.598 ug/L	98
12) 1,1-Dichloroethene	2.28	96	31792	4.501 ug/L	87
13) Acetone	2.34	43	53368	47.945 ug/L	99
14) Carbon disulfide	2.48	76	118236	4.790 ug/L	99
15) Methyl Acetate	2.62	43	16186	4.963 ug/L	94
16) Methylene chloride	2.70	84	37116	3.670 ug/L	97
17) Methyl tert-butyl Ether	3.00	73	83103	4.791 ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	34961	4.508 ug/L	95
19) 1,1-Dichloroethane	3.44	63	66103	5.020 ug/L	99
21) 2-Butanone	4.29	43	94536	56.767 ug/L	95
22) cis-1,2-Dichloroethene	4.22	96	39527	4.926 ug/L	99

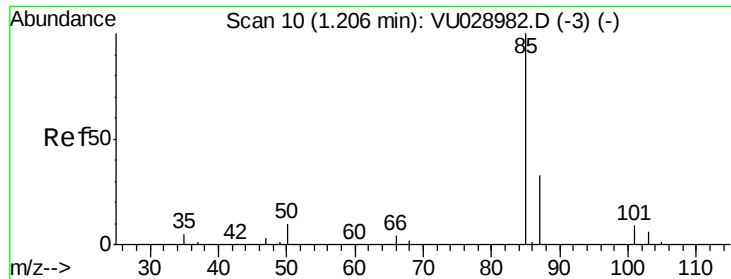
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010419\
 Data File : VU029015.D
 Acq On : 04 Jan 2019 09:37
 Operator : MD/SY
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Instrument :
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR122818WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jan 03 03:47:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	16553	5.084	ug/L	96
25) Chloroform	4.67	83	62755	5.016	ug/L	98
27) 1,2-Dichloroethane	5.40	62	38067	5.144	ug/L	100
29) 1,1,1-Trichloroethane	4.91	97	51926	5.081	ug/L	98
30) Cyclohexane	4.99	56	60893	4.973	ug/L	97
31) Carbon tetrachloride	5.13	117	41689	5.123	ug/L	99
33) Benzene	5.39	78	150322	5.052	ug/L	100
34) Trichloroethene	6.18	95	37329	4.907	ug/L	97
35) Methylcyclohexane	6.41	83	62663	4.795	ug/L	97
37) 1,2-Dichloropropane	6.43	63	40237	5.308	ug/L	100
38) Bromodichloromethane	6.76	83	44245	5.185	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	55220	5.081	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	224833	55.743	ug/L	98
42) Toluene	7.63	91	155998	4.898	ug/L	97
44) trans-1,3-Dichloropropene	7.88	75	44881	5.299	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	26571	5.151	ug/L	95
47) Tetrachloroethene	8.22	164	30357	4.818	ug/L	98
48) 2-Hexanone	8.36	43	162819	58.358	ug/L	97
49) Dibromochloromethane	8.48	129	28935	5.283	ug/L	94
50) 1,2-Dibromoethane	8.58	107	24628	5.104	ug/L	92
51) Chlorobenzene	9.12	112	98462	4.929	ug/L	96
52) Ethylbenzene	9.25	91	164217	4.860	ug/L	98
53) m,p-xylene	9.37	106	63316	4.924	ug/L	97
54) o-xylene	9.78	106	60996	4.887	ug/L	100
55) Styrene	9.79	104	104360	5.024	ug/L	100
56) Isopropylbenzene	10.16	105	158600	4.818	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	34909	5.528	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	23651	5.352	ug/L	99
61) Bromoform	9.96	173	17207	5.753	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	72599	4.899	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	73484	4.859	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	71039	5.066	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	5054	6.104	ug/L	87
67) 1,3,5-Trichlorobenzene	12.89	180	56869	4.959	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	47131	4.932	ug/L	98
69) Naphthalene	13.74	128	89021	5.446	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	46045	5.052	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.013 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

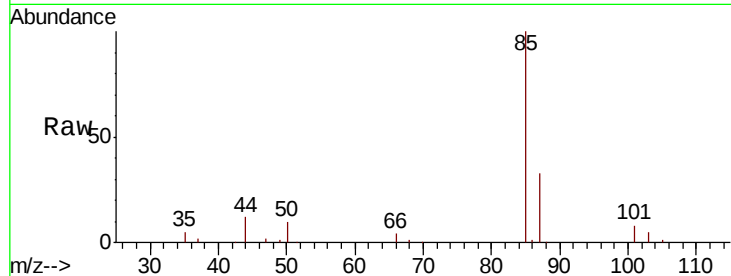
VSTD00551

Tgt Ion: 85 Resp: 43285

Ion Ratio Lower Upper

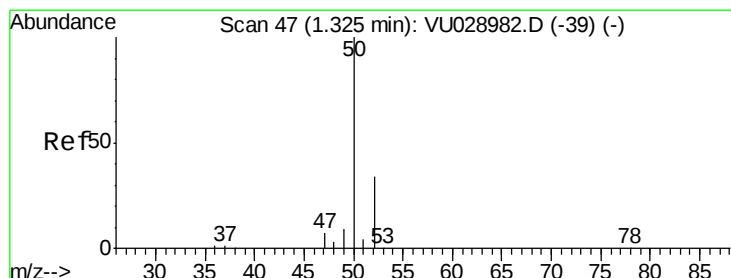
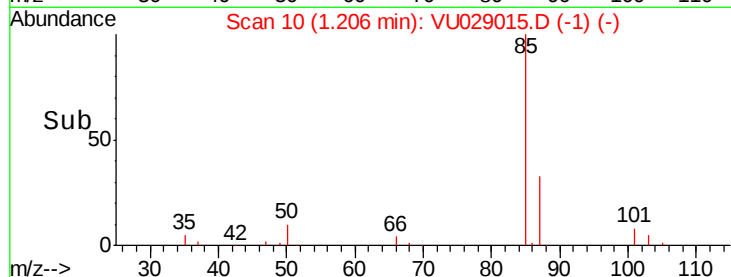
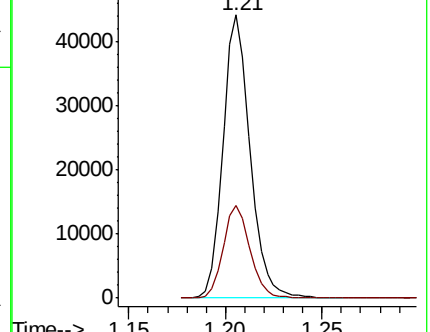
85 100

87 32.1 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU028982.D (-3) (-)

Ion 87.00 (86.70 to 87.70): VU028982.D (-3) (-)



#3

Chloromethane

Concen: 5.098 ug/L

RT: 1.32 min Scan# 47

Delta R.T. 0.00 min

Lab File: VU029015.D

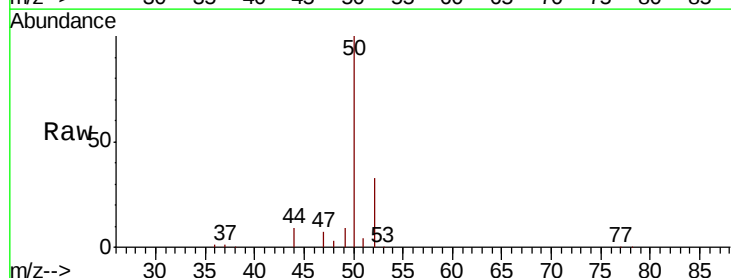
Acq: 04 Jan 2019 09:37

Tgt Ion: 50 Resp: 49124

Ion Ratio Lower Upper

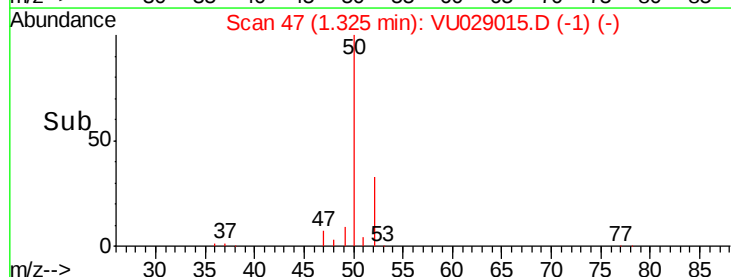
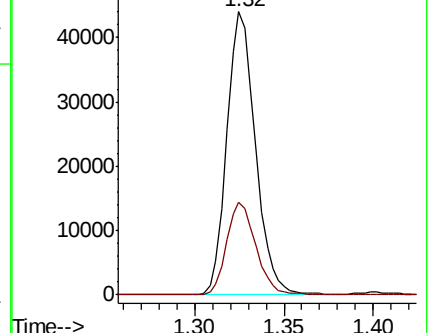
50 100

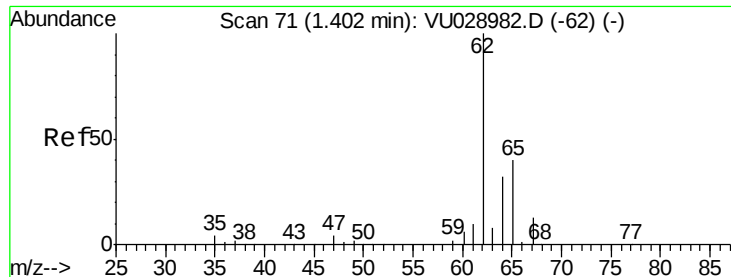
52 32.9 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU028982.D (-39) (-)

Ion 52.05 (51.75 to 52.75): VU028982.D (-39) (-)





#5

Vinyl chloride

Concen: 5.130 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

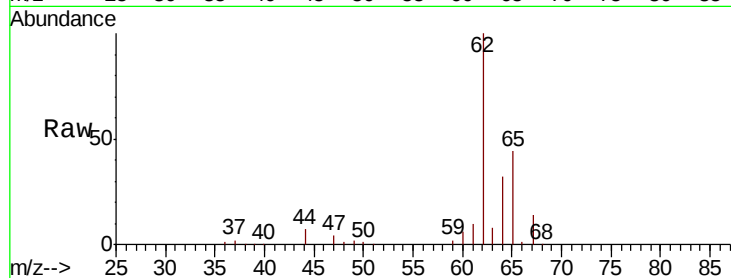
VSTD00551

Tgt Ion: 62 Resp: 50507

Ion Ratio Lower Upper

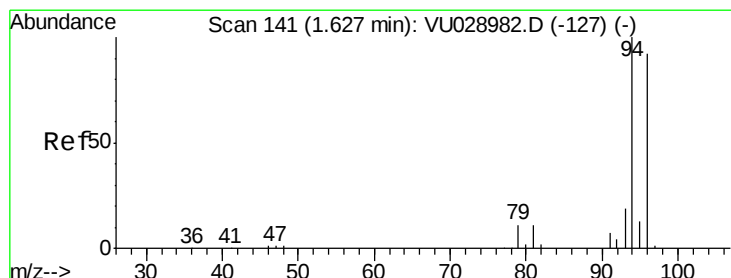
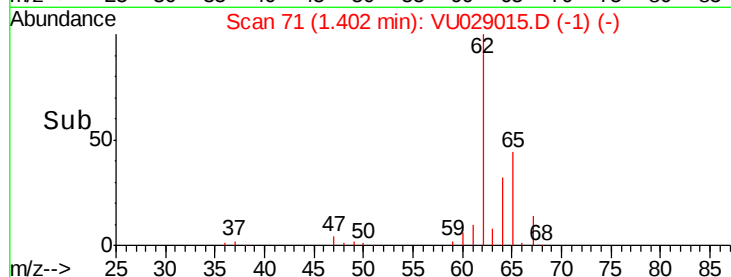
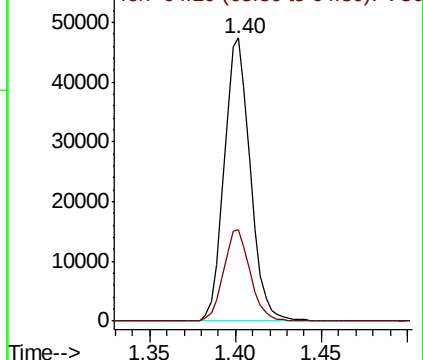
62 100

64 32.4 21.6 40.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.865 ug/L

RT: 1.63 min Scan# 142

Delta R.T. 0.00 min

Lab File: VU029015.D

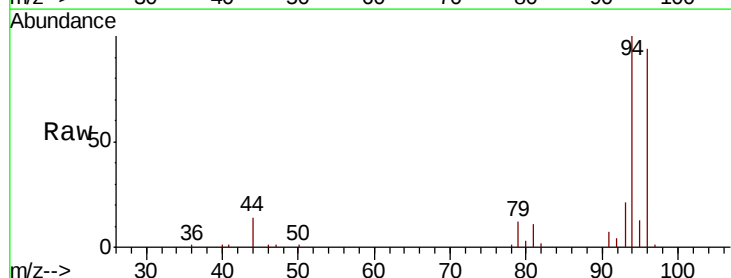
Acq: 04 Jan 2019 09:37

Tgt Ion: 94 Resp: 22173

Ion Ratio Lower Upper

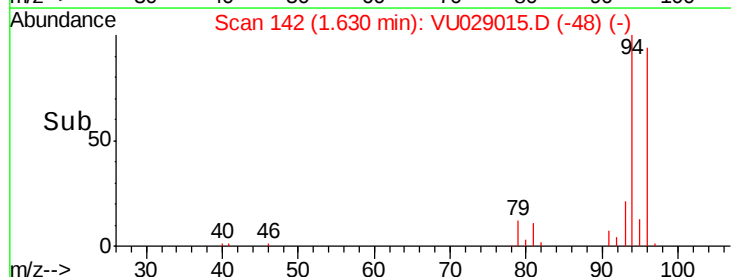
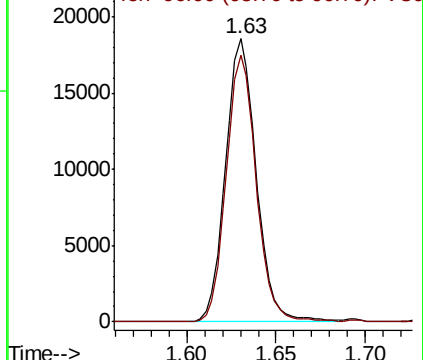
94 100

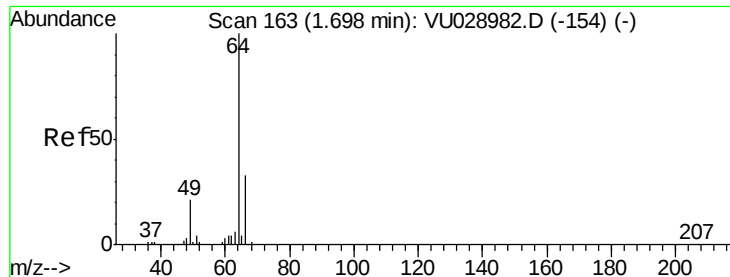
96 94.2 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 5.046 ug/L

RT: 1.70 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

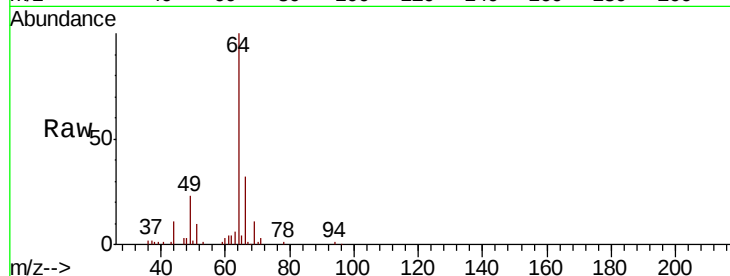
VSTD00551

Tgt Ion: 64 Resp: 28350

Ion Ratio Lower Upper

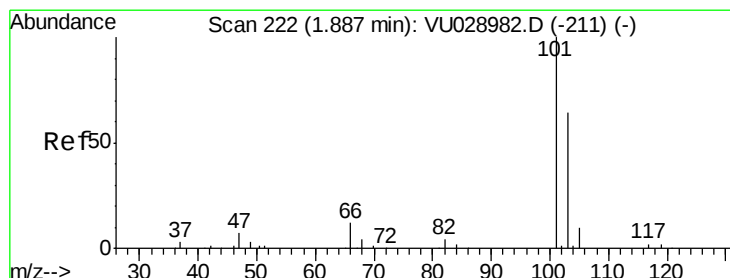
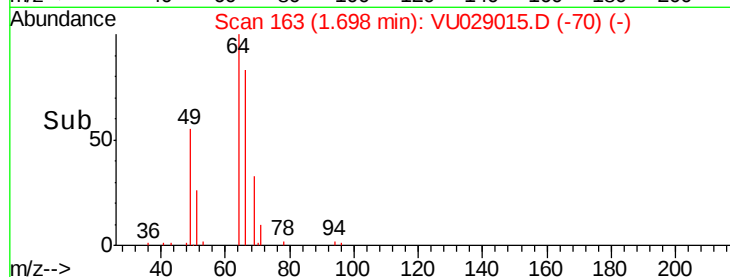
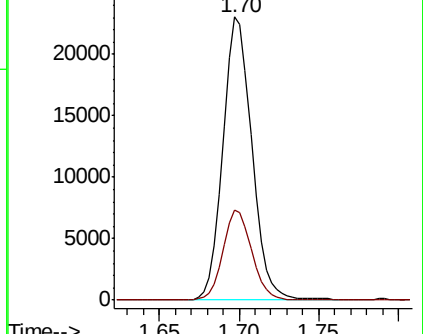
64 100

66 31.7 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VU028982.D (-154) (-)

Ion 66.05 (65.75 to 66.75): VU028982.D (-154) (-)



#9

Trichlorofluoromethane

Concen: 4.662 ug/L

RT: 1.88 min Scan# 221

Delta R.T. -0.00 min

Lab File: VU029015.D

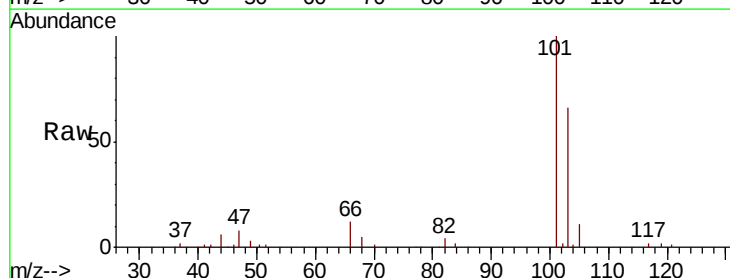
Acq: 04 Jan 2019 09:37

Tgt Ion: 101 Resp: 52479

Ion Ratio Lower Upper

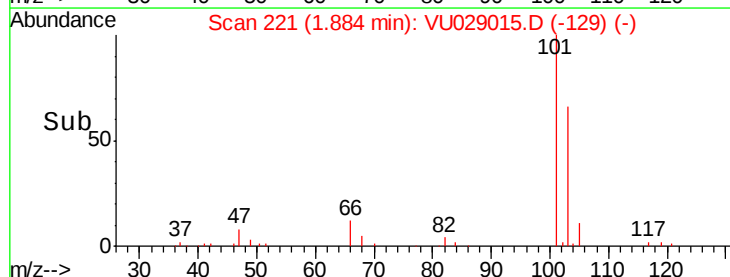
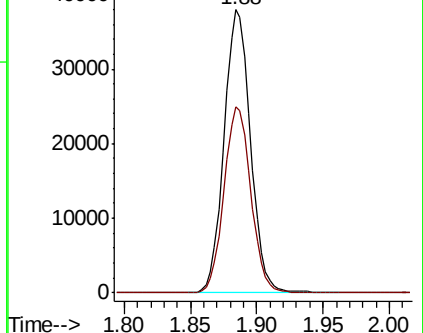
101 100

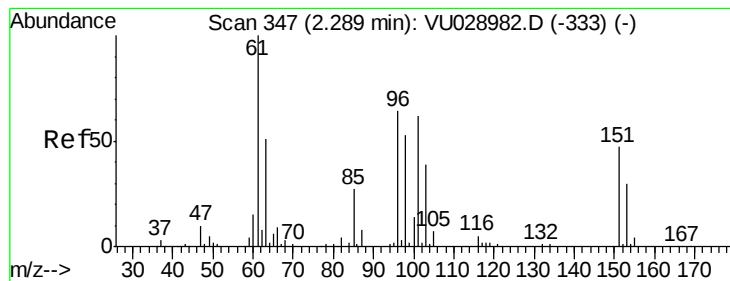
103 67.0 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU028982.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028982.D (-211) (-)





#10

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

Concen: 4.598 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

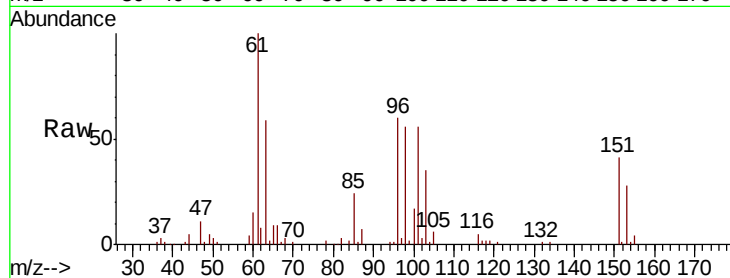
Tgt Ion: 101 Resp: 33401

Ion Ratio Lower Upper

101 100

85 43.3 33.8 50.6

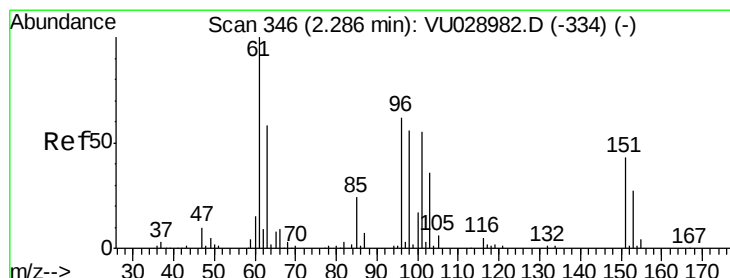
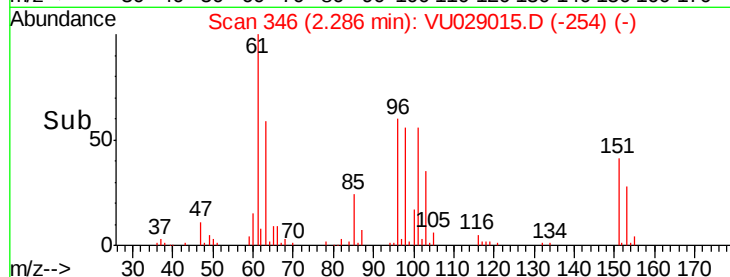
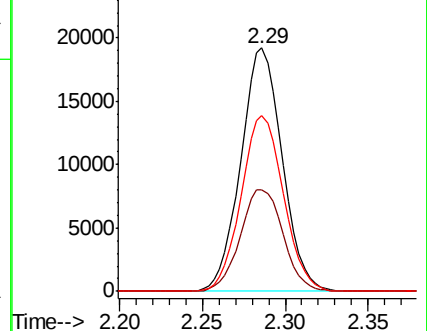
151 73.9 60.9 91.3



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: 4.501 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

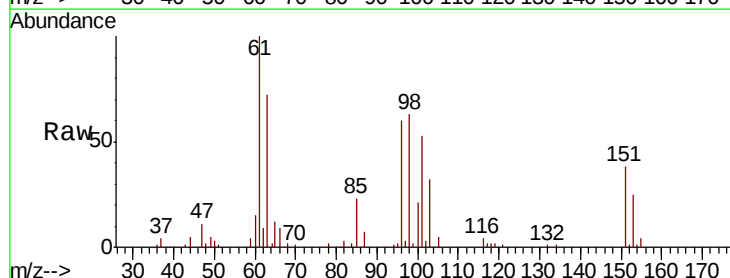
Tgt Ion: 96 Resp: 31792

Ion Ratio Lower Upper

96 100

61 166.6 110.5 205.3

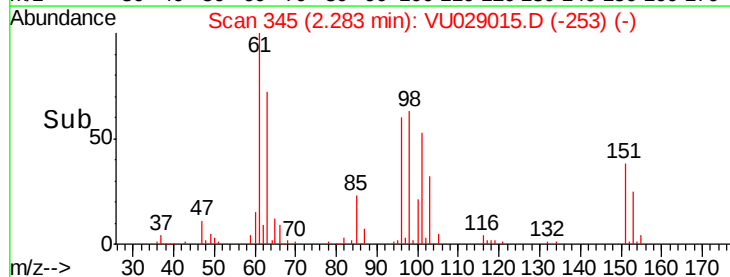
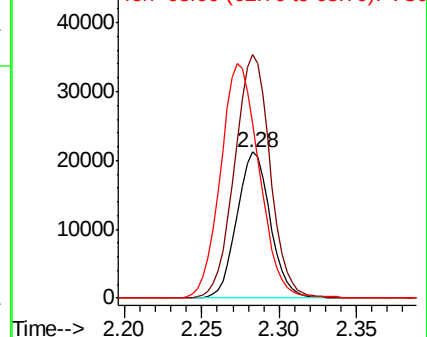
63 119.3 67.6 125.6

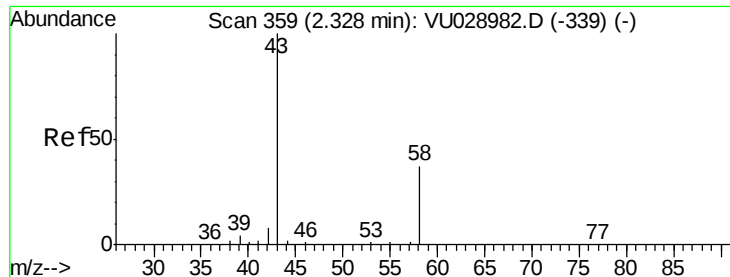


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.945 ug/L

RT: 2.34 min Scan# 362

Delta R.T. 0.01 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

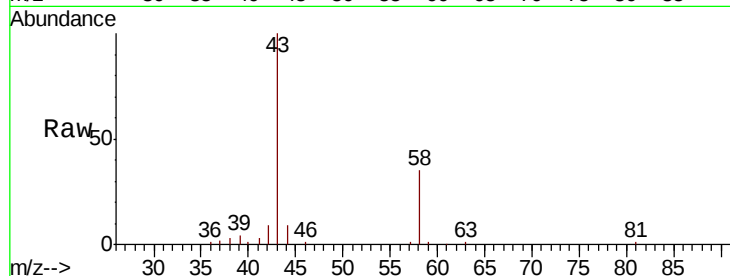
VSTD00551

Tgt Ion: 43 Resp: 53368

Ion Ratio Lower Upper

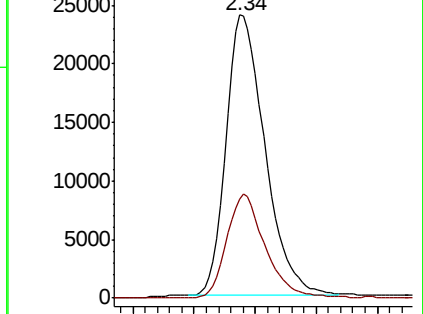
43 100

58 36.6 0.0 71.8

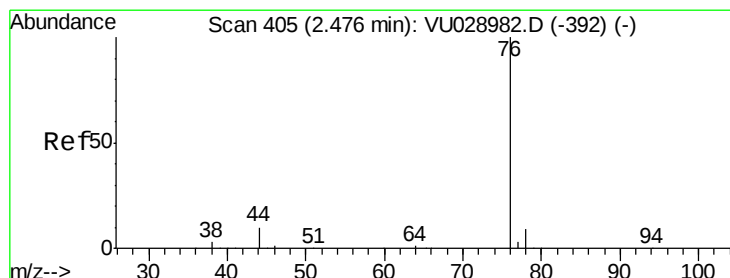
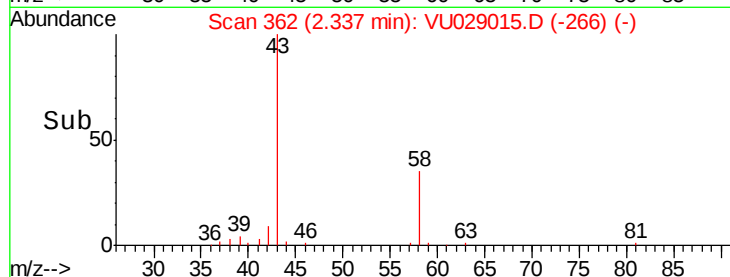


Abundance Ion 43.05 (42.75 to 43.75): VU028982.D (-339) (-)

Ion 58.05 (57.75 to 58.75): VU028982.D (-339) (-)



Time-->



#14

Carbon disulfide

Concen: 4.790 ug/L

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029015.D

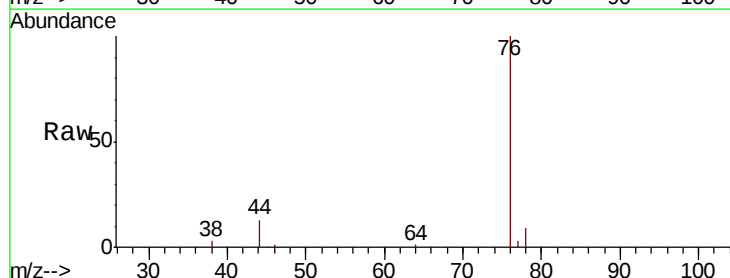
Acq: 04 Jan 2019 09:37

Tgt Ion: 76 Resp: 118236

Ion Ratio Lower Upper

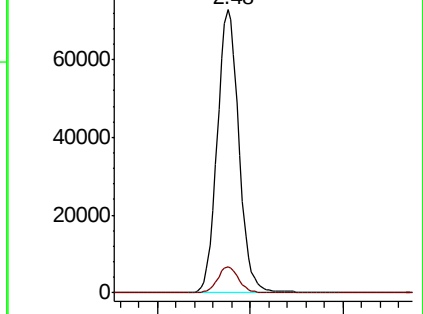
76 100

78 9.3 7.7 11.5

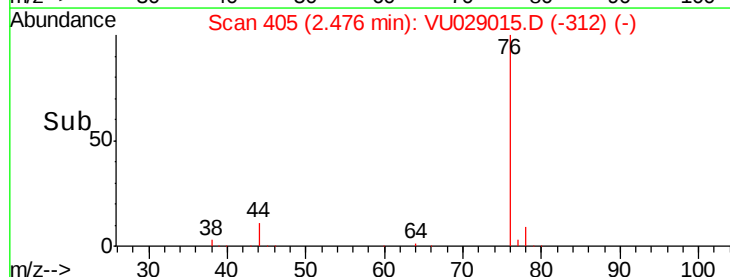


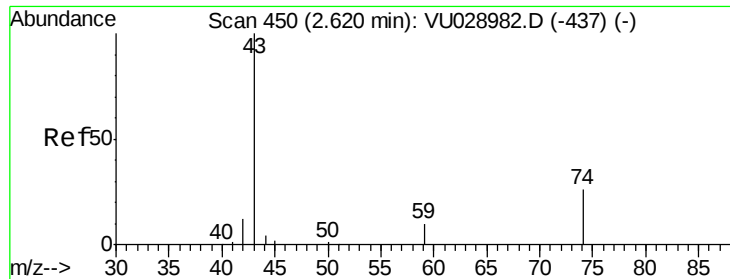
Abundance Ion 76.05 (75.75 to 76.75): VU028982.D (-392) (-)

Ion 78.00 (77.70 to 78.70): VU028982.D (-392) (-)



Time-->

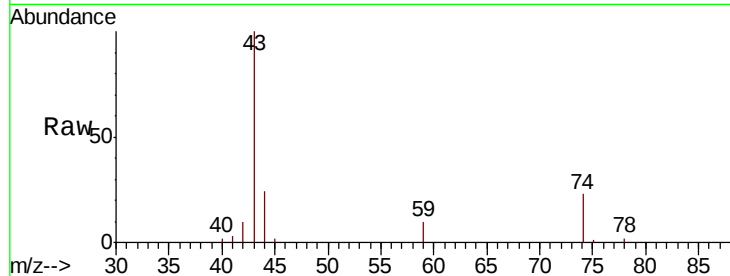




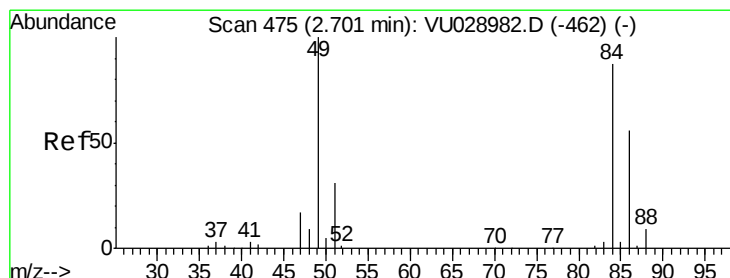
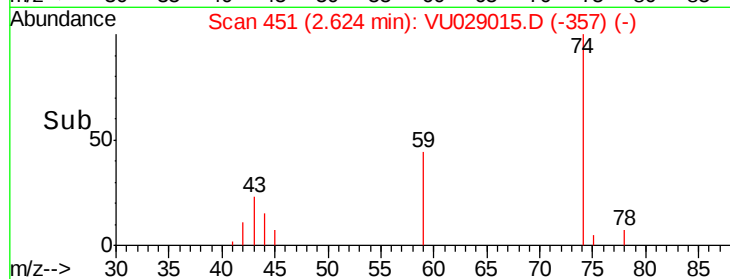
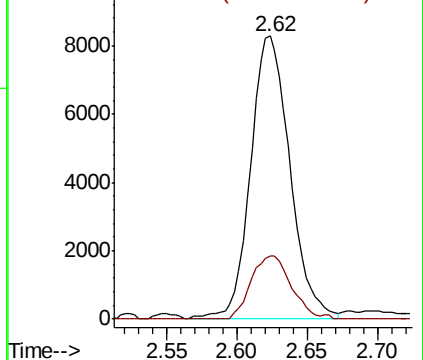
#15
Methyl Acetate
Concen: 4.963 ug/L
RT: 2.62 min Scan# 451
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Tgt Ion: 43 Resp: 16186
Ion Ratio Lower Upper
43 100
74 22.9 20.6 30.8

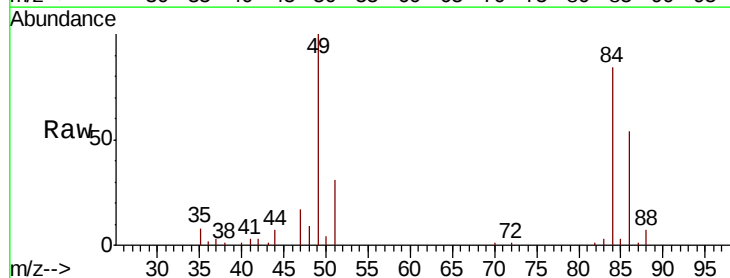


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 74.05 (73.75 to 74.75): VU0

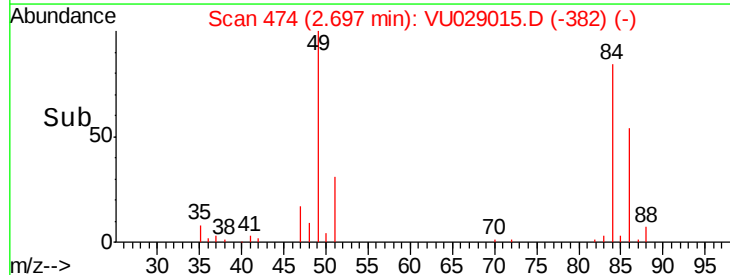
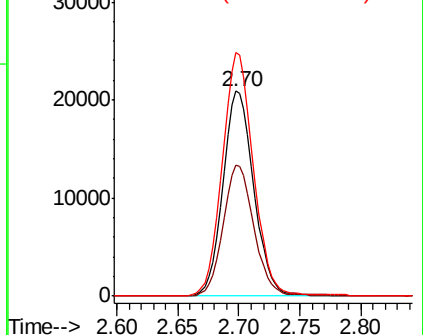


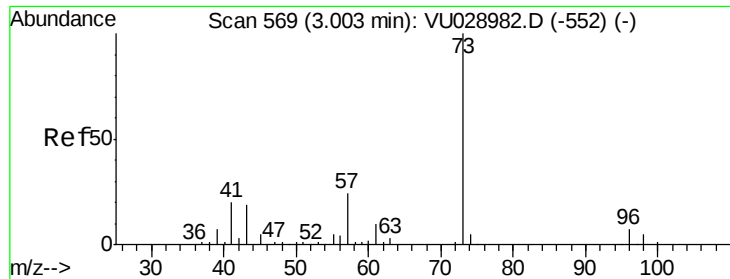
#16
Methylene chloride
Concen: 3.670 ug/L
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Tgt Ion: 84 Resp: 37116
Ion Ratio Lower Upper
84 100
86 63.8 45.6 84.6
49 118.7 79.7 148.1



Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

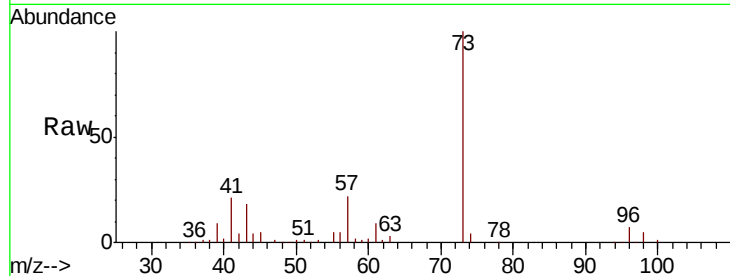




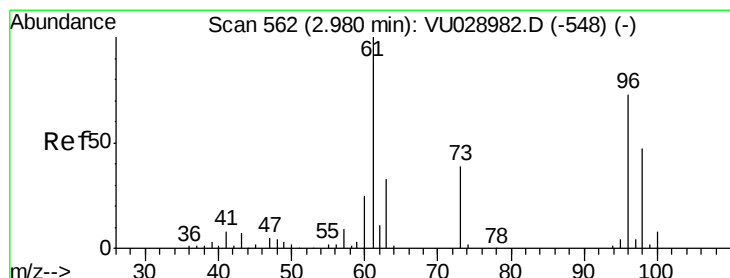
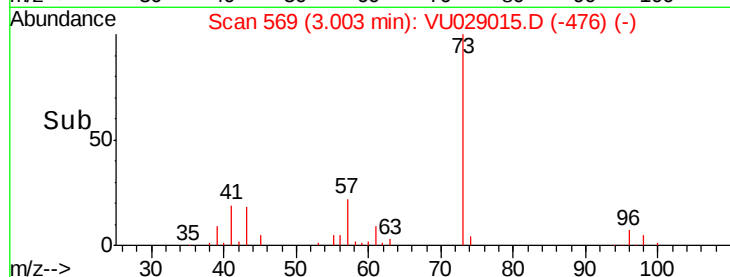
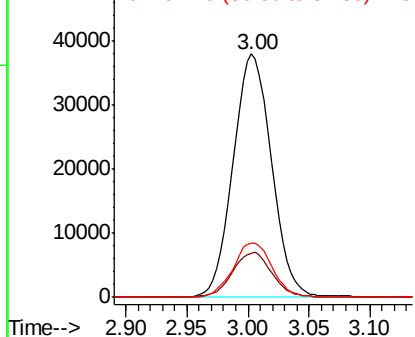
#17
Methyl tert-butyl Ether
Concen: 4.791 ug/L
RT: 3.00 min Scan# 569
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Tgt Ion: 73 Resp: 83103
Ion Ratio Lower Upper
73 100
43 19.0 13.8 20.8
57 22.8 17.5 26.3

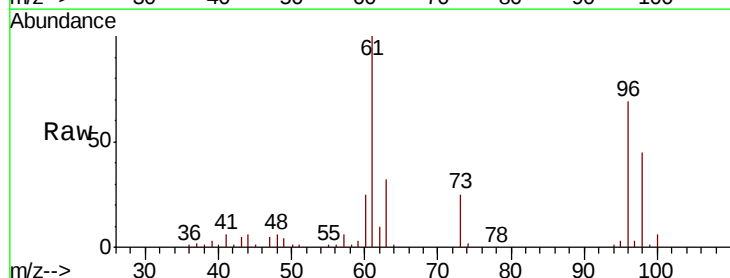


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

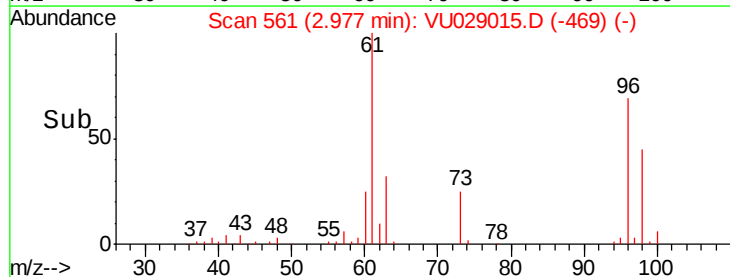
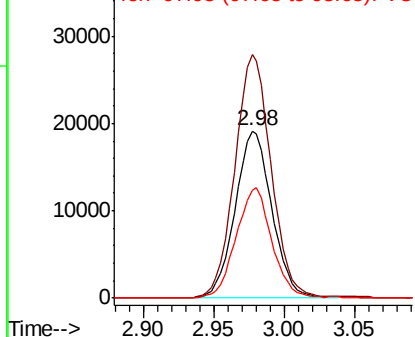


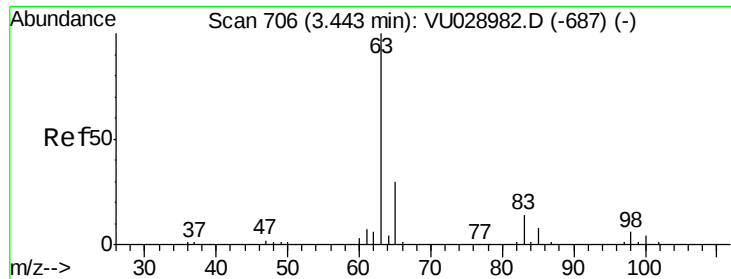
#18
trans-1,2-Dichloroethene
Concen: 4.508 ug/L
RT: 2.98 min Scan# 561
Delta R.T. -0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Tgt Ion: 96 Resp: 34961
Ion Ratio Lower Upper
96 100
61 145.8 96.6 179.4
98 64.9 46.0 85.4



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

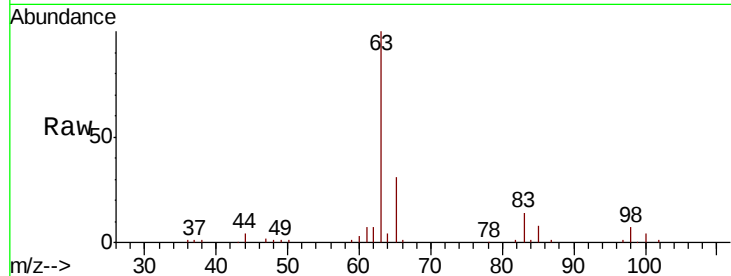




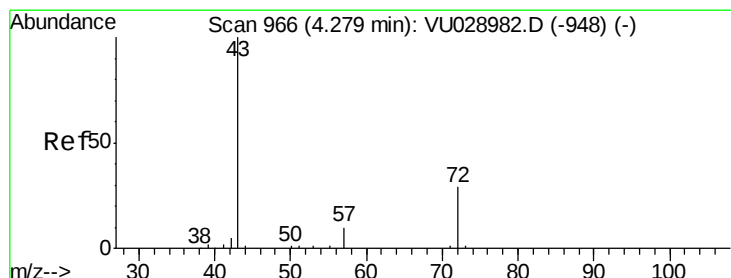
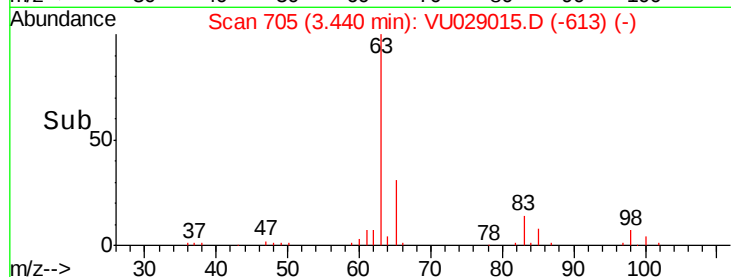
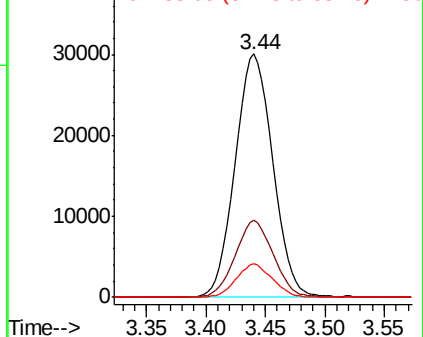
#19
 1,1-Dichloroethane
 Concen: 5.020 ug/L
 RT: 3.44 min Scan# 705
 Delta R.T. -0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tgt Ion: 63 Resp: 66103
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.8 40.6
 83 13.6 9.3 17.3

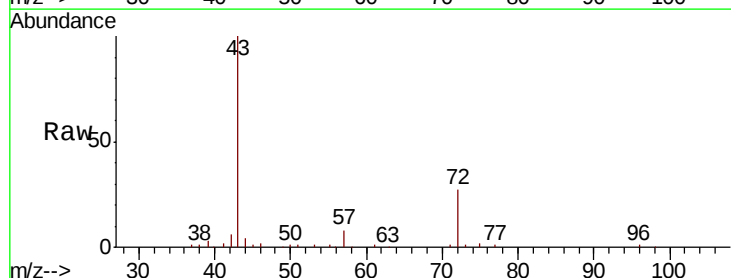


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

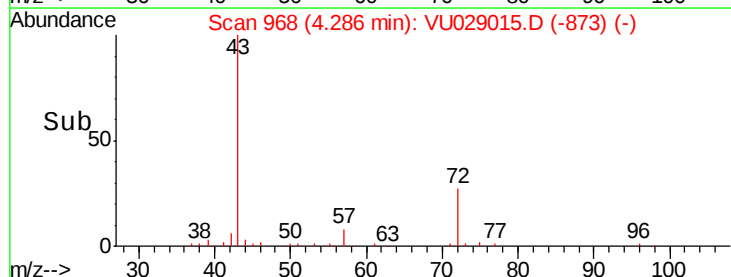
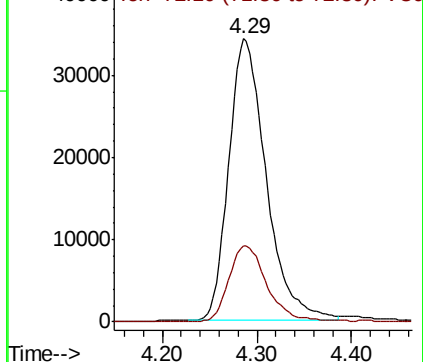


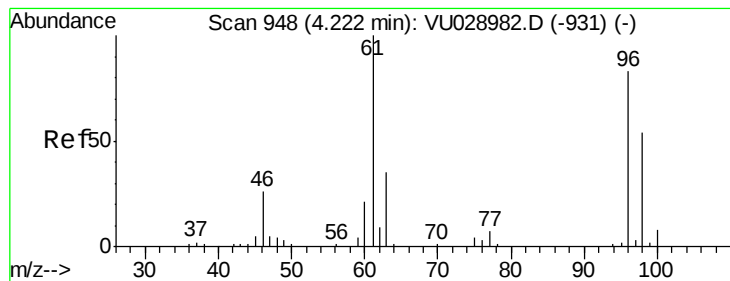
#21
 2-Butanone
 Concen: 56.767 ug/L
 RT: 4.29 min Scan# 968
 Delta R.T. 0.01 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Tgt Ion: 43 Resp: 94536
 Ion Ratio Lower Upper
 43 100
 72 27.7 15.2 45.5



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



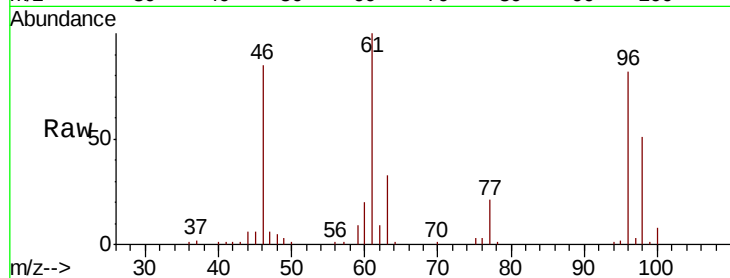


#22

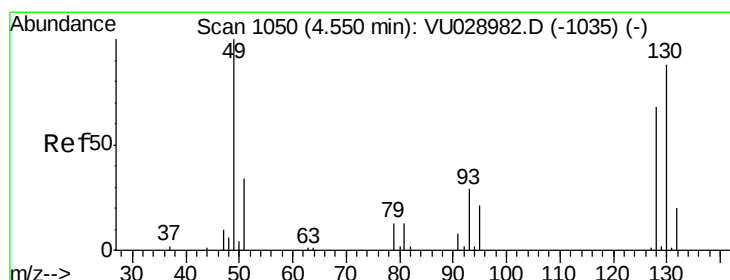
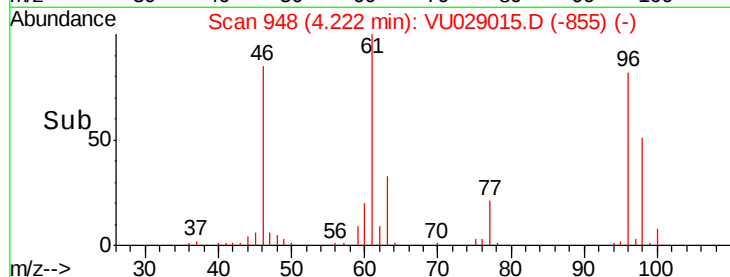
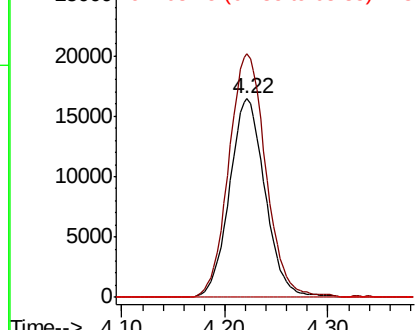
cis-1,2-Dichloroethene
Concen: 4.926 ug/L
RT: 4.22 min Scan# 948
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Tgt Ion: 96 Resp: 39527
Ion Ratio Lower Upper
96 100
61 122.6 84.7 157.3
68 0.0 0.0 0.0



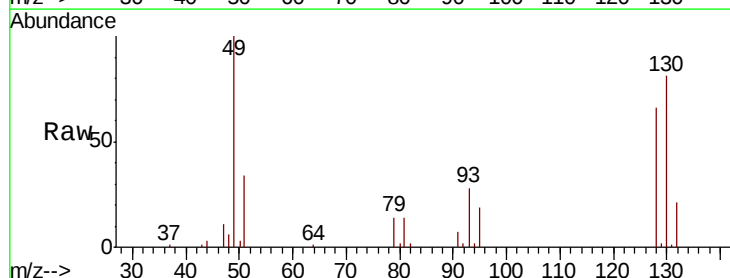
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



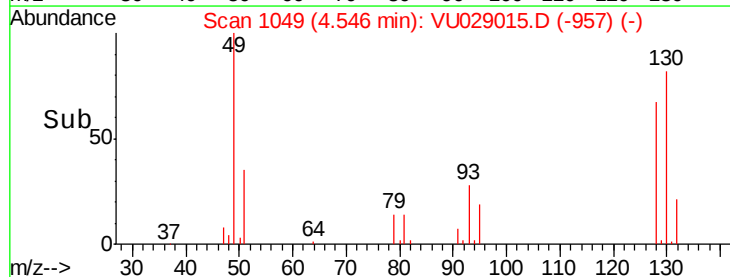
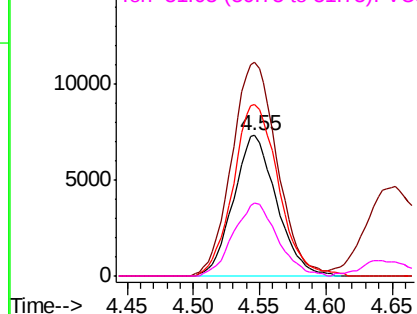
#23

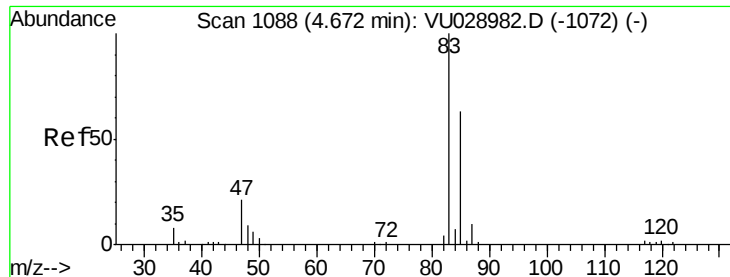
Bromochloromethane
Concen: 5.084 ug/L
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Tgt Ion: 128 Resp: 16553
Ion Ratio Lower Upper
128 100
49 152.2 109.3 202.9
130 122.6 88.7 164.7
51 52.4 38.8 58.2



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

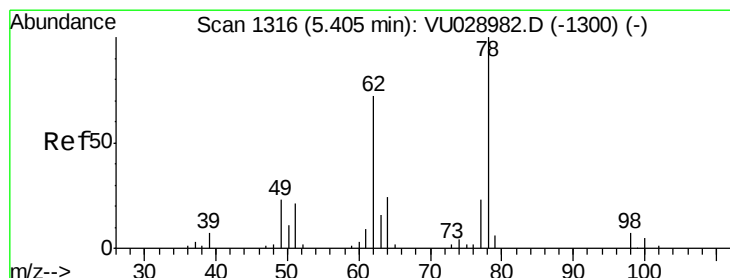
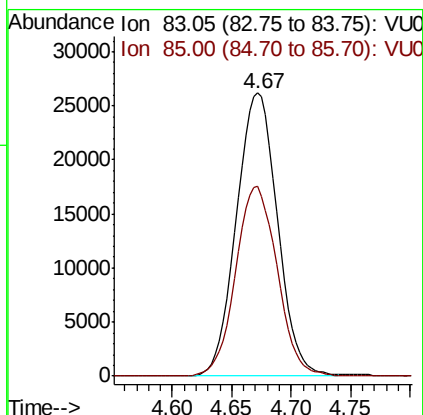
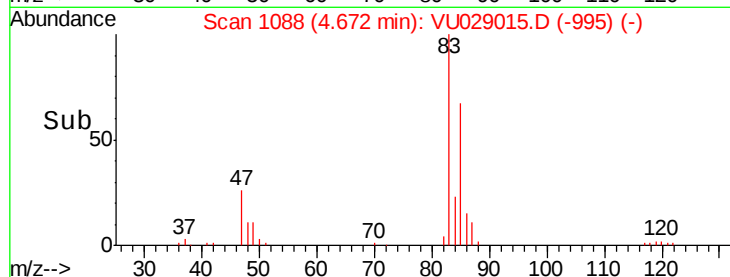
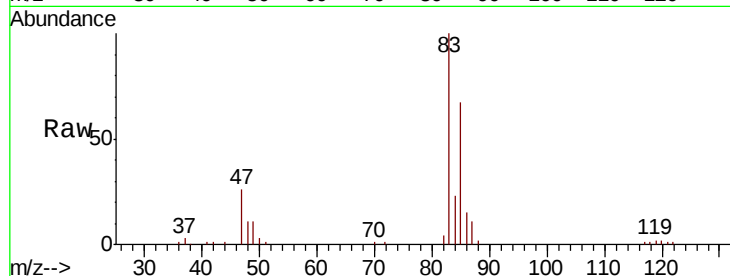




#25
Chloroform
Concen: 5.016 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

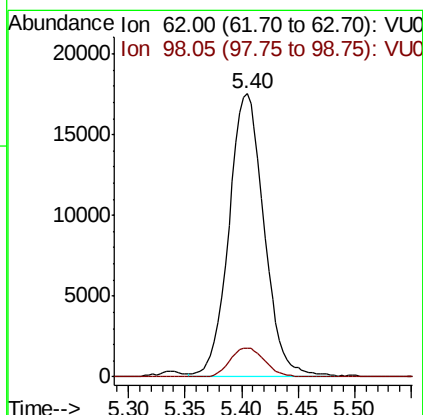
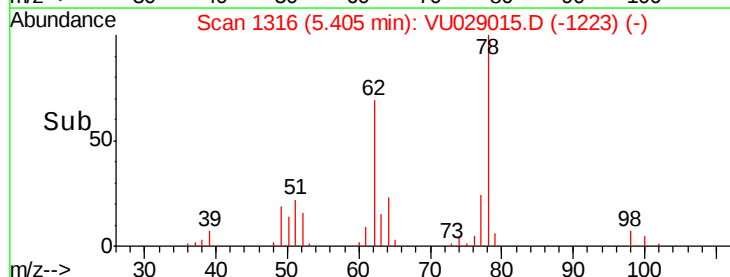
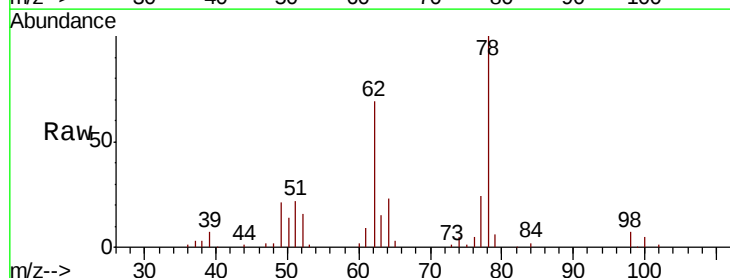
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

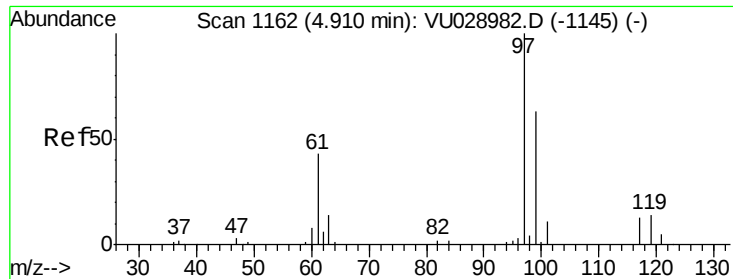
Tgt Ion: 83 Resp: 62755
Ion Ratio Lower Upper
83 100
85 67.0 45.6 84.8



#27
1,2-Dichloroethane
Concen: 5.144 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Tgt Ion: 62 Resp: 38067
Ion Ratio Lower Upper
62 100
98 10.2 8.2 12.2

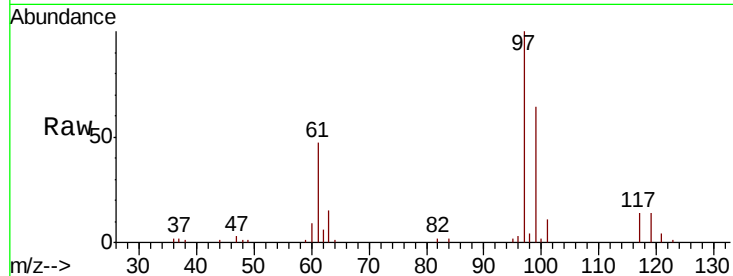




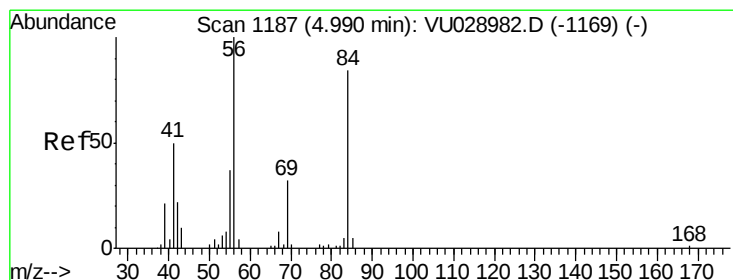
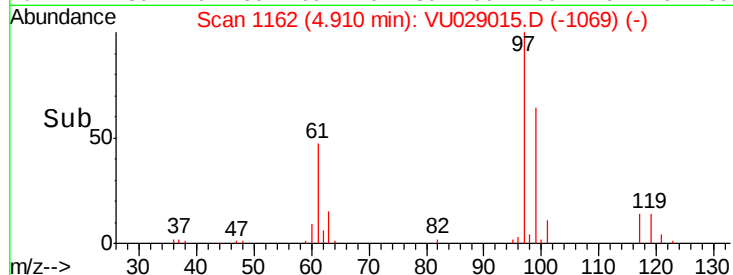
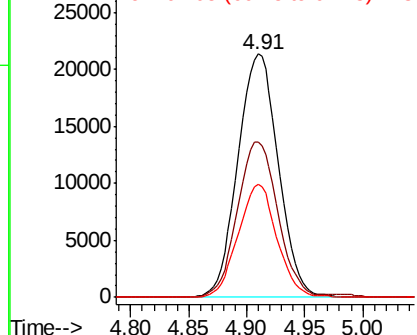
#29
 1,1,1-Trichloroethane
 Concen: 5.081 ug/L
 RT: 4.91 min Scan# 1162
 Delta R.T. 0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tgt Ion: 97 Resp: 51926
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.6 77.4
 61 44.5 34.1 51.1

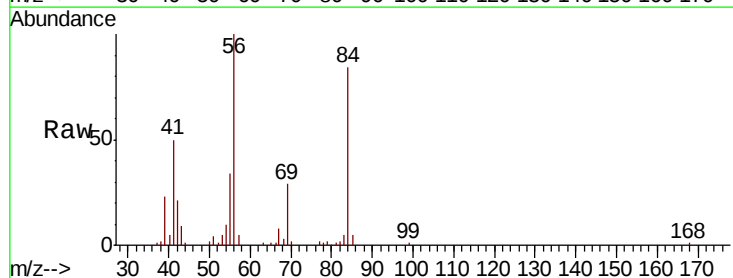


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

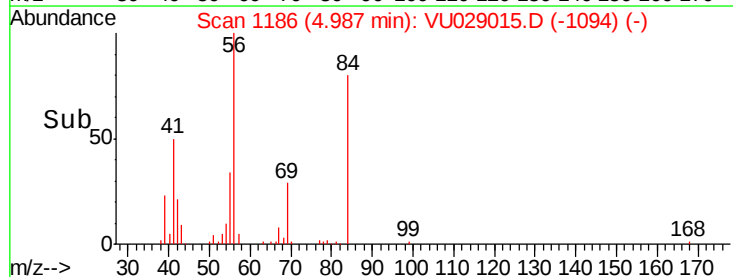
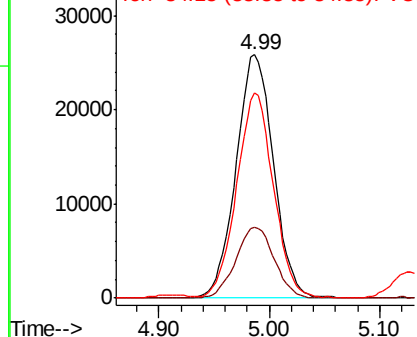


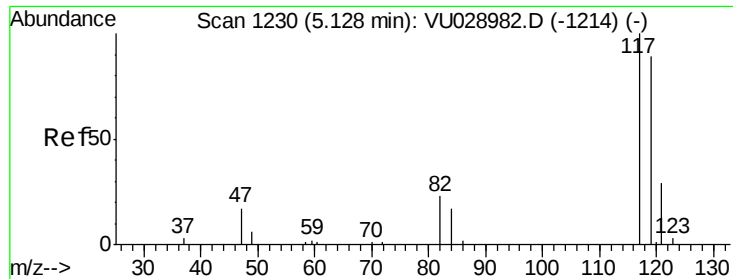
#30
 Cyclohexane
 Concen: 4.973 ug/L
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Tgt Ion: 56 Resp: 60893
 Ion Ratio Lower Upper
 56 100
 69 29.8 24.8 37.2
 84 82.9 69.1 103.7



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.123 ug/L

RT: 5.13 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

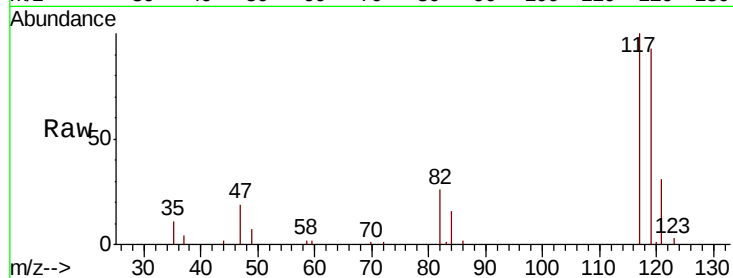
VSTD00551

Tgt Ion:117 Resp: 41689

Ion Ratio Lower Upper

117 100

119 93.3 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.13

20000

15000

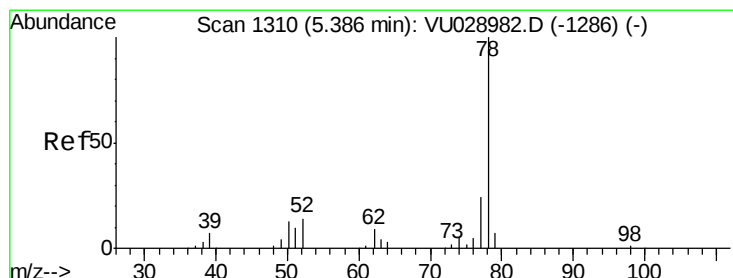
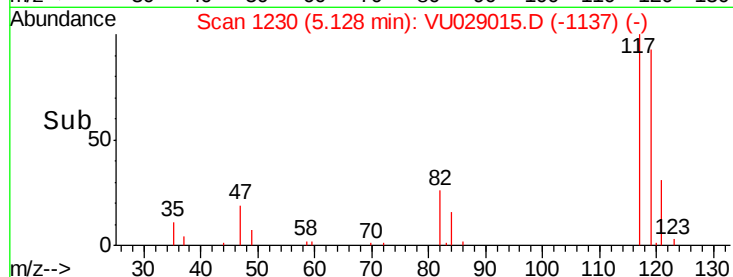
10000

5000

0

Time-->

5.05 5.10 5.15 5.20



#33

Benzene

Concen: 5.052 ug/L

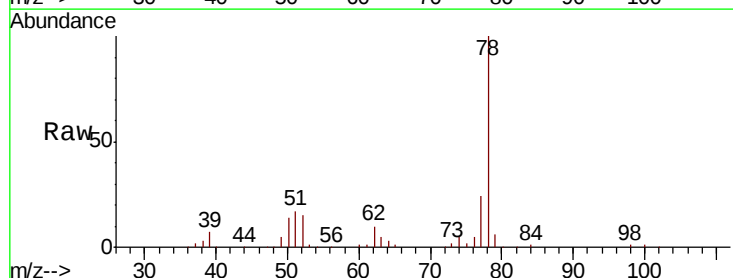
RT: 5.39 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Tgt Ion: 78 Resp: 150322



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.39

80000

60000

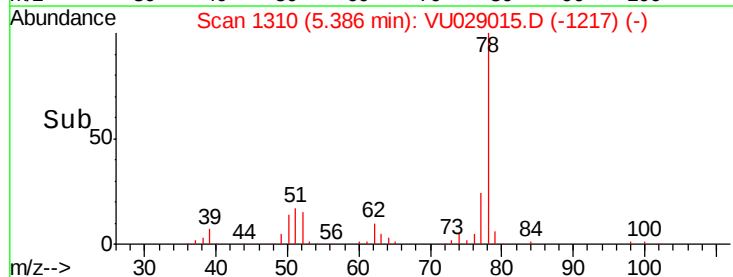
40000

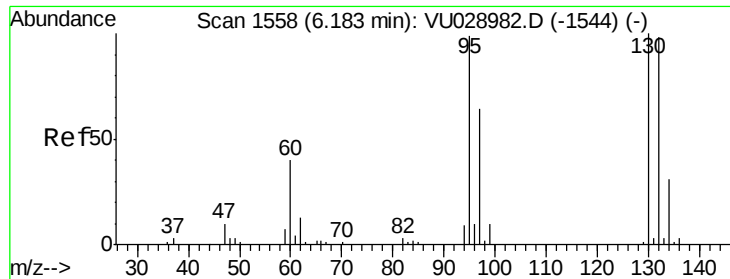
20000

0

Time-->

5.30 5.40 5.50





#34

Trichloroethene

Concen: 4.907 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

Tgt Ion: 95 Resp: 37329

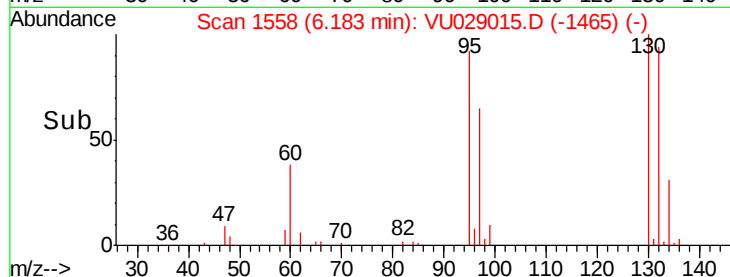
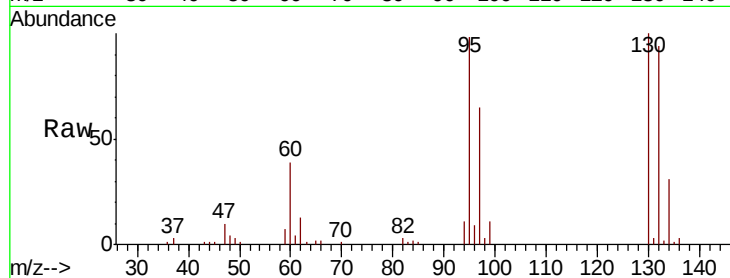
Ion Ratio Lower Upper

95 100

97 66.5 45.4 84.2

132 95.6 70.8 131.6

130 101.9 70.7 131.3



Abundance Ion 95.00 (94.70 to 95.70): VU029015.D (-1465) (-)

Ion 96.95 (96.65 to 97.65): VU029015.D (-1465) (-)

Ion 131.95 (131.65 to 132.65): VU029015.D (-1465) (-)

Ion 129.95 (129.65 to 130.65): VU029015.D (-1465) (-)

Time-->

6.10 6.15 6.20 6.25

Abundance

30000

25000

20000

15000

10000

5000

0

Time-->

6.10 6.15 6.20 6.25

Abundance

30000

25000

20000

15000

10000

5000

0

Time-->

6.10 6.15 6.20 6.25

Abundance

30000

25000

20000

15000

10000

5000

0

Time-->

6.10 6.15 6.20 6.25

Abundance

30000

25000

20000

15000

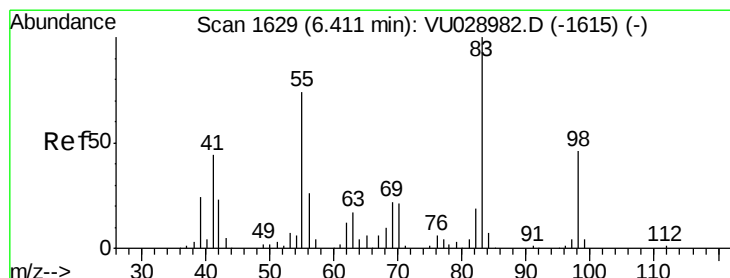
10000

5000

0

Time-->

6.10 6.15 6.20 6.25



#35

Methylcyclohexane

Concen: 4.795 ug/L

RT: 6.41 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

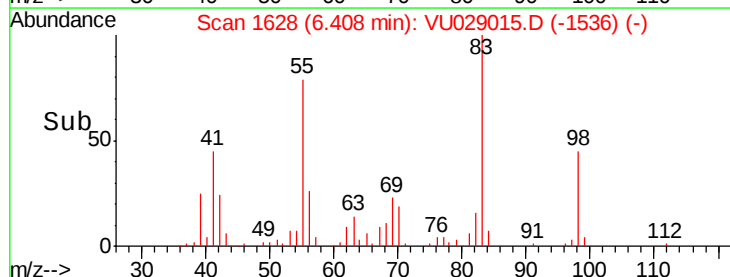
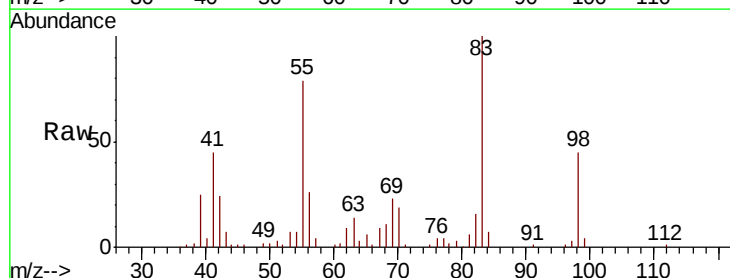
Tgt Ion: 83 Resp: 62663

Ion Ratio Lower Upper

83 100

55 78.6 59.8 89.6

98 45.4 37.0 55.6



Abundance Ion 83.15 (82.85 to 83.85): VU029015.D (-1536) (-)

Ion 55.10 (54.80 to 55.80): VU029015.D (-1536) (-)

Ion 98.15 (97.85 to 98.85): VU029015.D (-1536) (-)

Time-->

6.35 6.40 6.45 6.50

Abundance

40000

30000

20000

10000

0

Time-->

6.35 6.40 6.45 6.50

Abundance

40000

30000

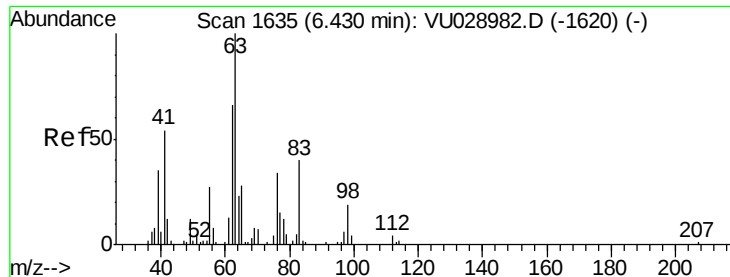
20000

10000

0

Time-->

6.35 6.40 6.45 6.50



#37

1,2-Dichloropropane

Concen: 5.308 ug/L

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

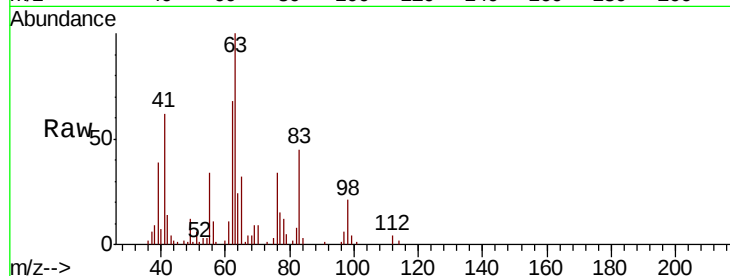
VSTD00551

Tgt Ion: 63 Resp: 40237

Ion Ratio Lower Upper

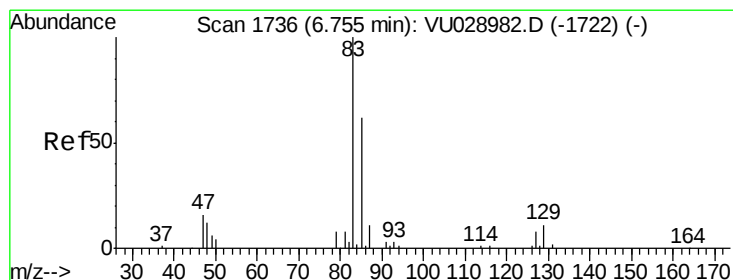
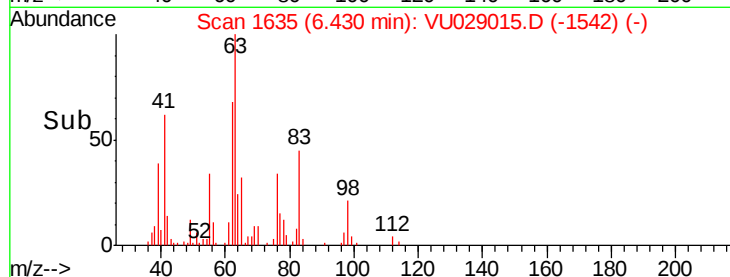
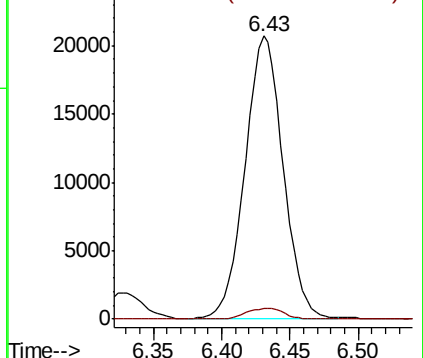
63 100

112 3.7 3.0 4.4



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 5.185 ug/L

RT: 6.76 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

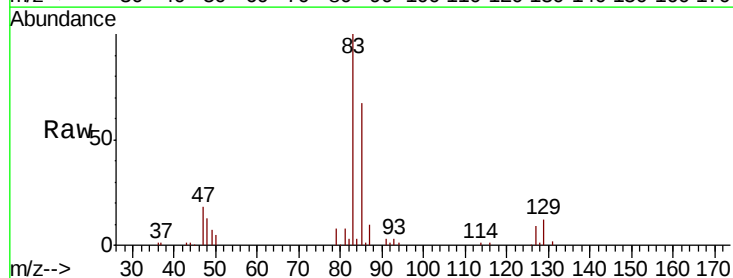
Tgt Ion: 83 Resp: 44245

Ion Ratio Lower Upper

83 100

85 66.9 45.1 83.9

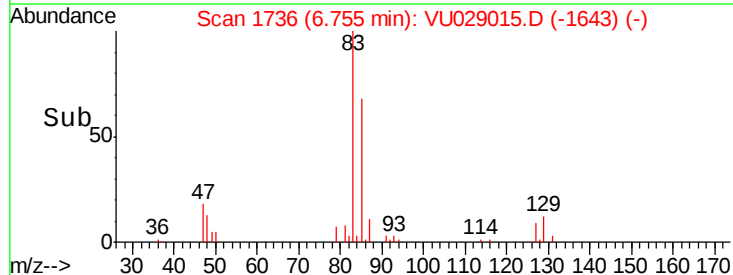
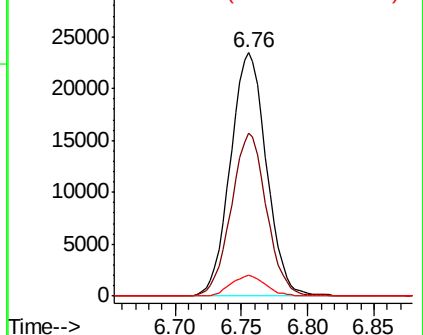
127 8.5 6.8 10.2

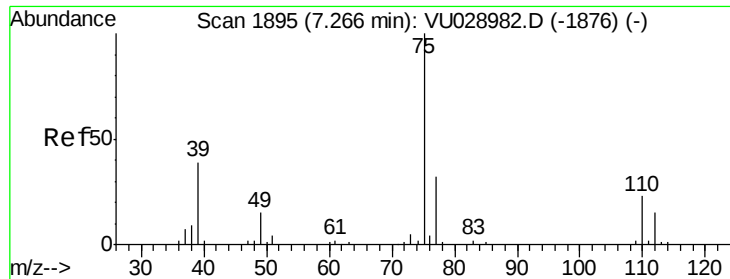


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V

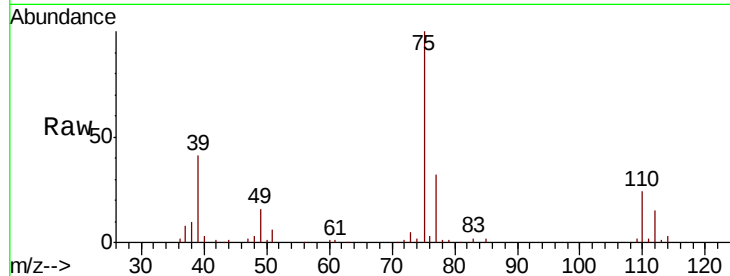




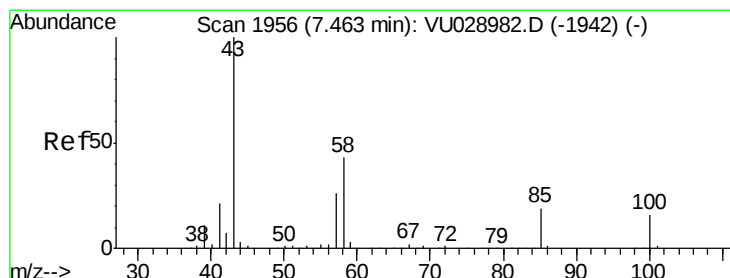
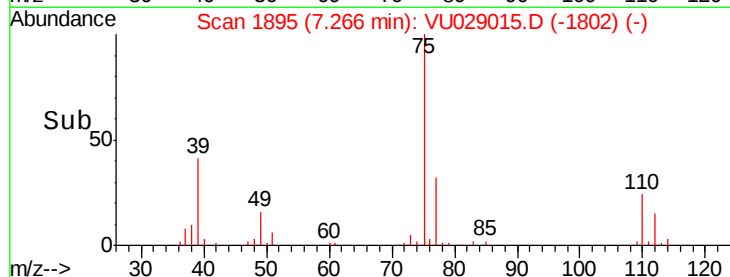
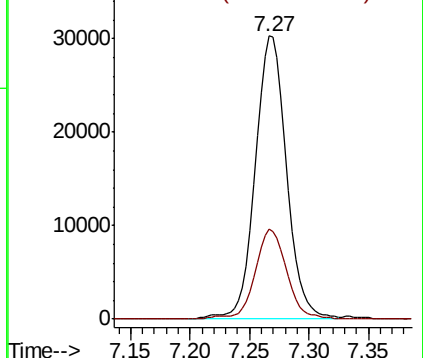
#39
 cis-1,3-Dichloropropene
 Concen: 5.081 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. 0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tgt Ion: 75 Resp: 55220
 Ion Ratio Lower Upper
 75 100
 77 31.7 21.5 39.9

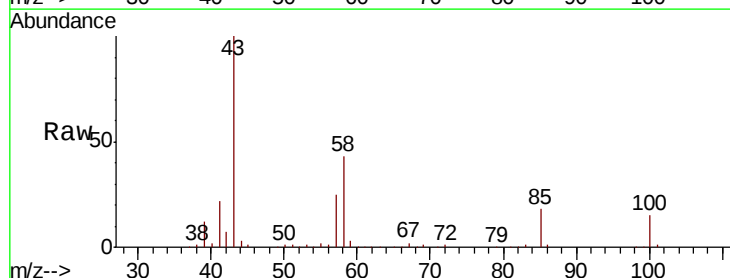


Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 77.05 (76.75 to 77.75): VU0

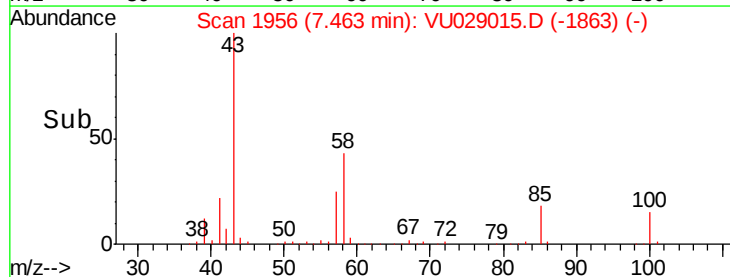
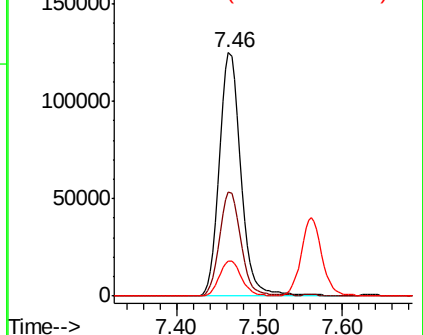


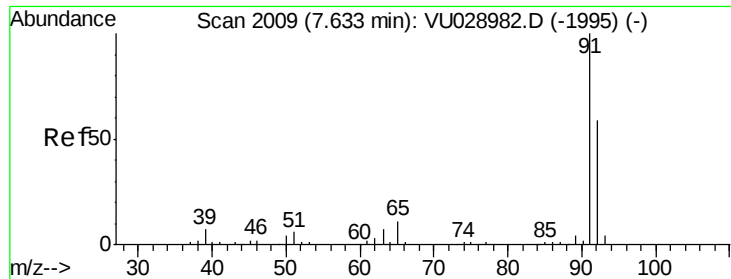
#40
 4-Methyl-2-pentanone
 Concen: 55.743 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Tgt Ion: 43 Resp: 224833
 Ion Ratio Lower Upper
 43 100
 58 42.5 34.6 51.8
 100 14.8 13.4 20.0



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0
 Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 4.898 ug/L

RT: 7.63 min Scan# 2009

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

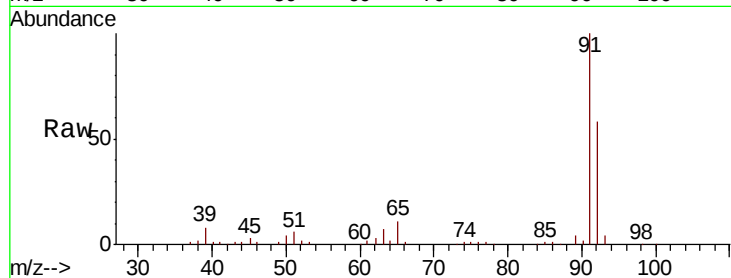
VSTD00551

Tgt Ion: 91 Resp: 155998

Ion Ratio Lower Upper

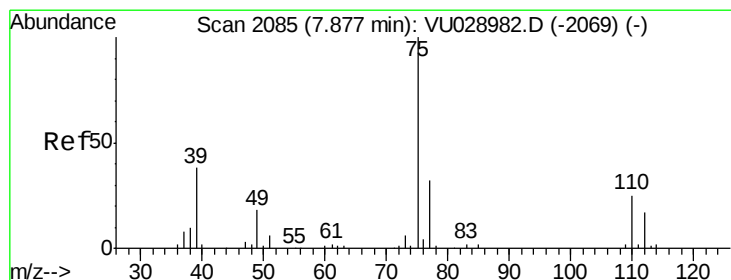
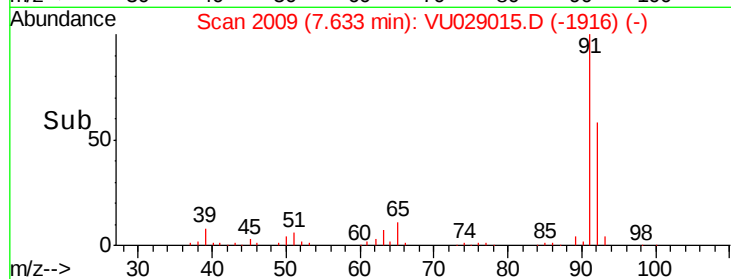
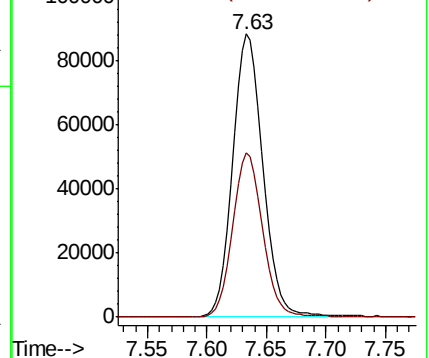
91 100

92 58.1 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 5.299 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU029015.D

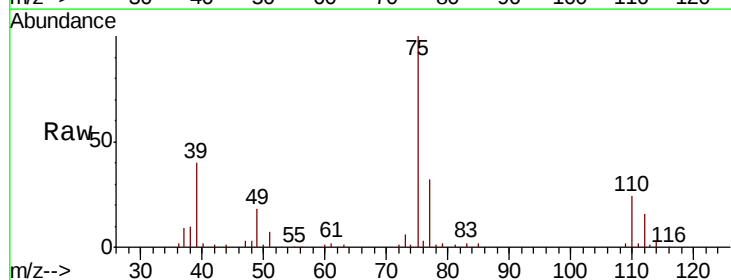
Acq: 04 Jan 2019 09:37

Tgt Ion: 75 Resp: 44881

Ion Ratio Lower Upper

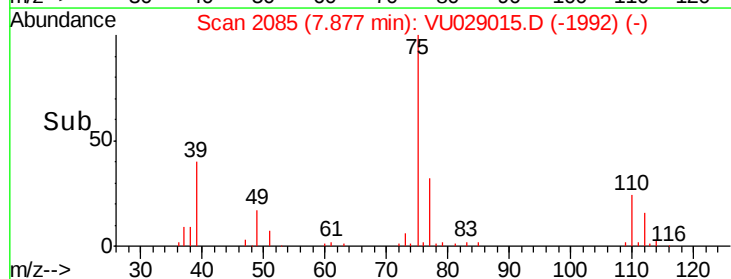
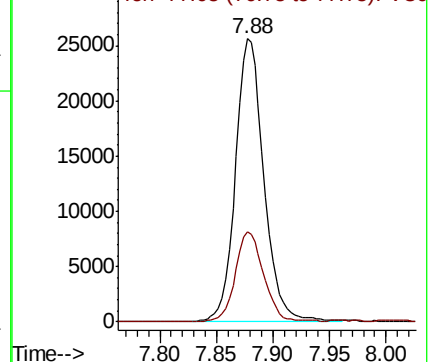
75 100

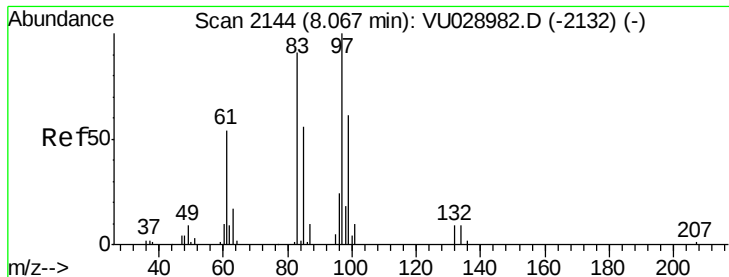
77 31.7 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 5.151 ug/L

RT: 8.07 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

Tgt Ion: 97 Resp: 26571

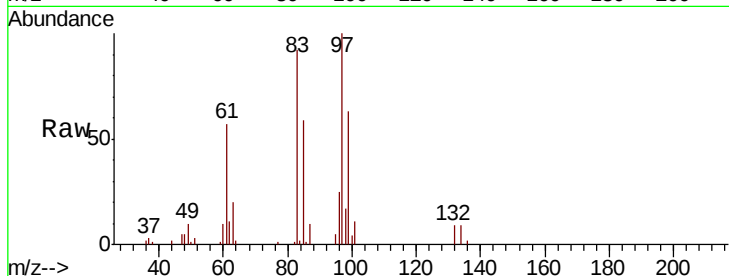
Ion Ratio Lower Upper

97 100

99 62.5 42.4 78.6

83 91.8 59.6 110.6

85 58.7 39.0 72.4

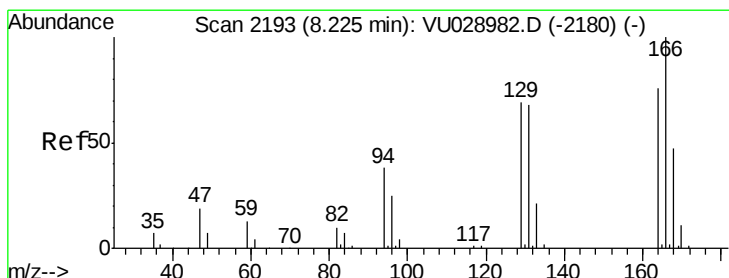
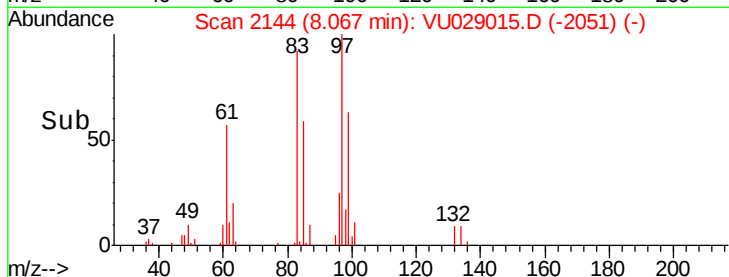
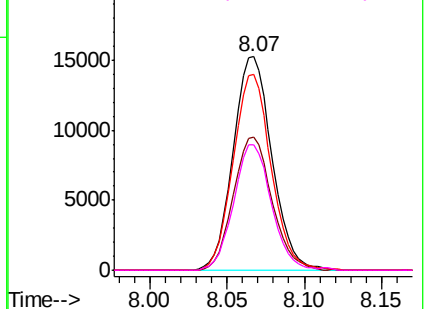


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.818 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Tgt Ion: 164 Resp: 30357

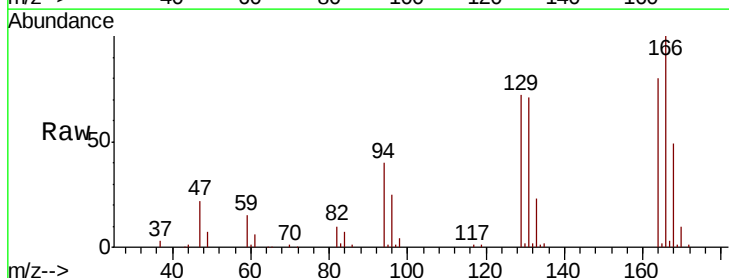
Ion Ratio Lower Upper

164 100

129 89.0 65.3 121.3

131 88.0 62.9 116.7

166 124.4 86.7 160.9

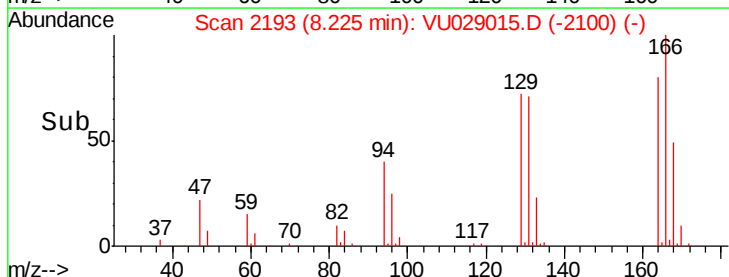
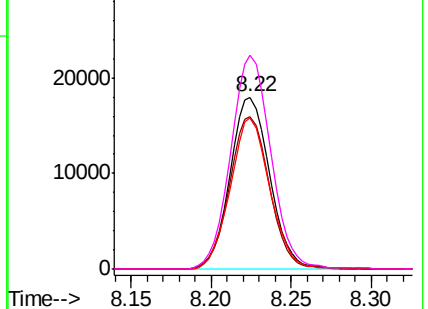


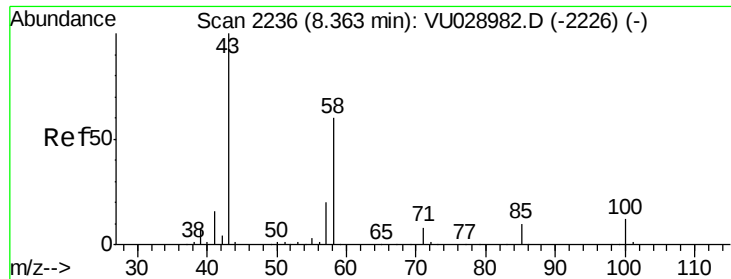
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

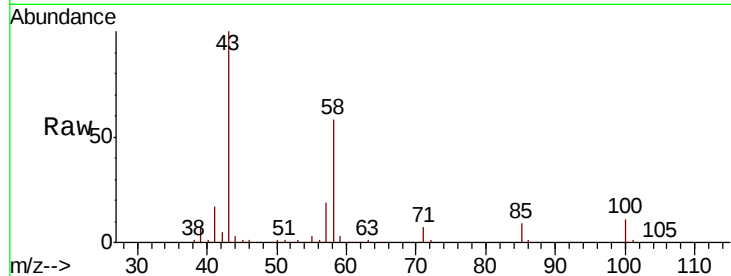




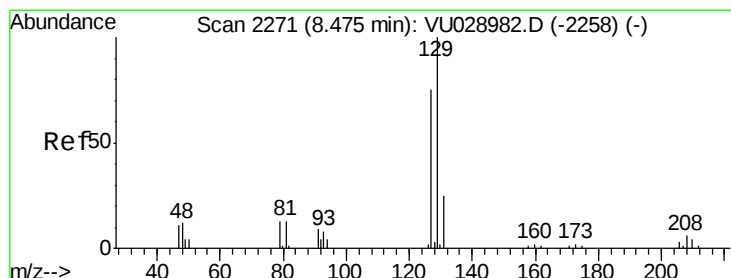
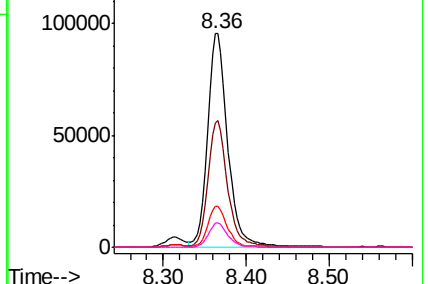
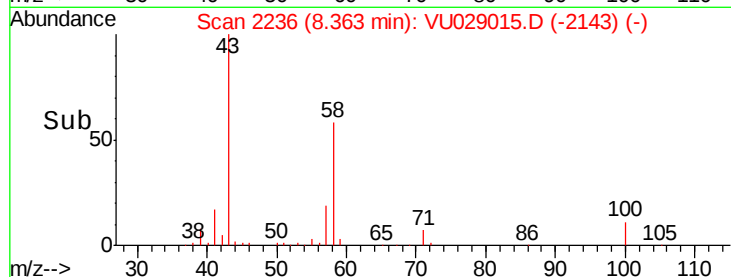
#48
2-Hexanone
Concen: 58.358 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Tgt Ion: 43 Resp: 162819
Ion Ratio Lower Upper
43 100
58 57.9 48.8 73.2
57 19.3 16.0 24.0
100 11.3 10.2 15.4

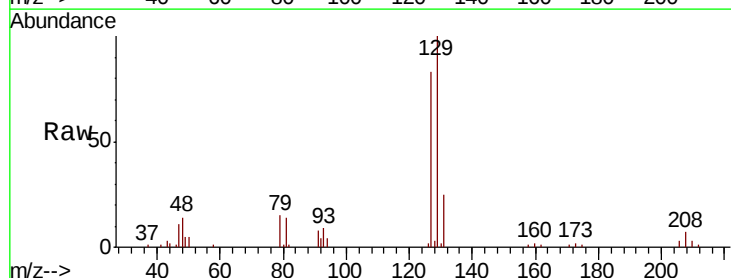


Abundance Ion 43.05 (42.75 to 43.75): VU029015.D (-2143) (-)
Ion 58.05 (57.75 to 58.75): VU029015.D (-2143) (-)
Ion 57.20 (56.90 to 57.90): VU029015.D (-2143) (-)
Ion 100.15 (99.85 to 100.85): VU029015.D (-2143) (-)

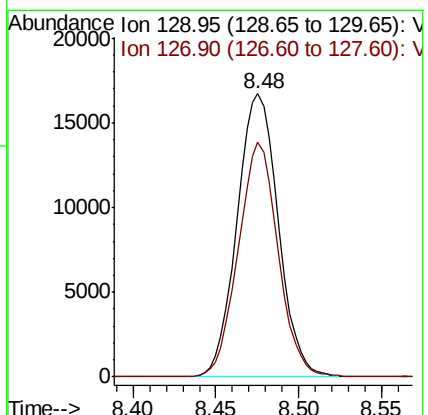
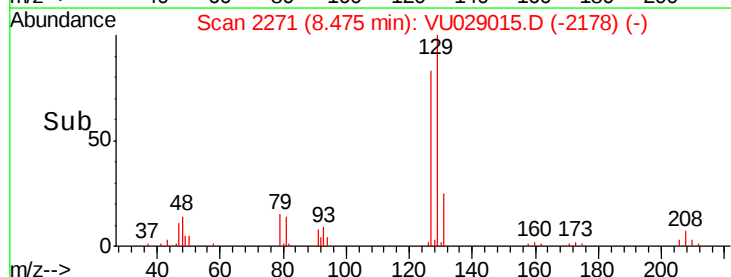


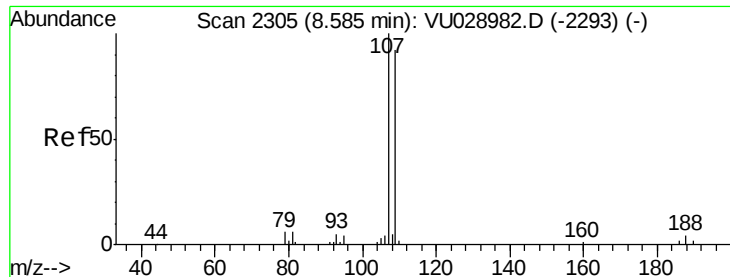
#49
Dibromochloromethane
Concen: 5.283 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Tgt Ion: 129 Resp: 28935
Ion Ratio Lower Upper
129 100
127 82.8 54.4 101.0



Abundance Ion 128.95 (128.65 to 129.65): VU029015.D (-2178) (-)
Ion 126.90 (126.60 to 127.60): VU029015.D (-2178) (-)

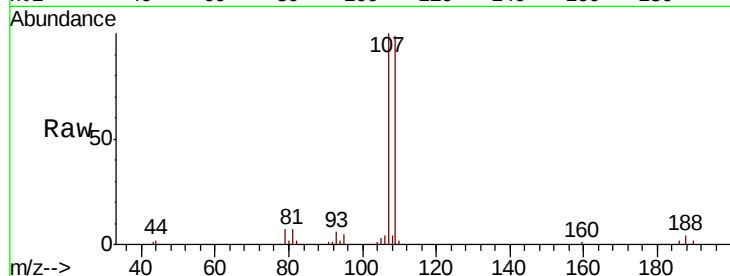




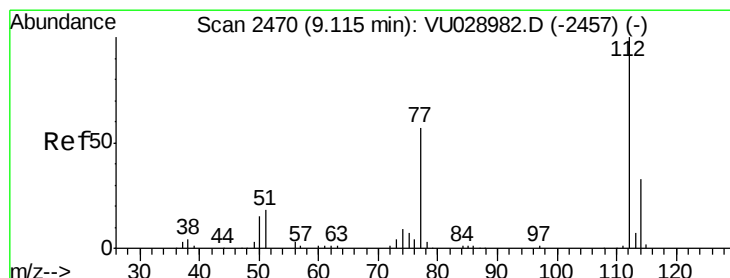
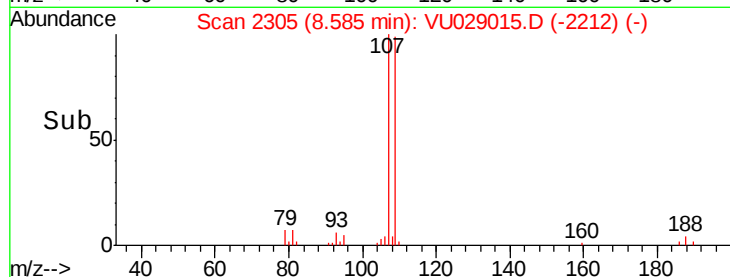
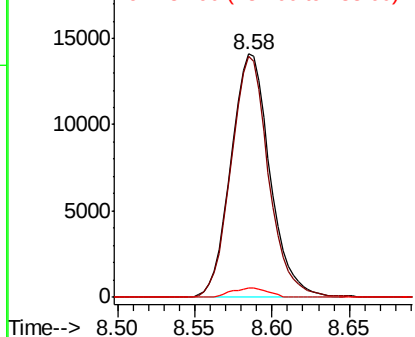
#50
1,2-Dibromoethane
Concen: 5.104 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Tgt Ion:107 Resp: 24628
Ion Ratio Lower Upper
107 100
109 98.9 64.0 119.0
188 3.6 3.0 4.4

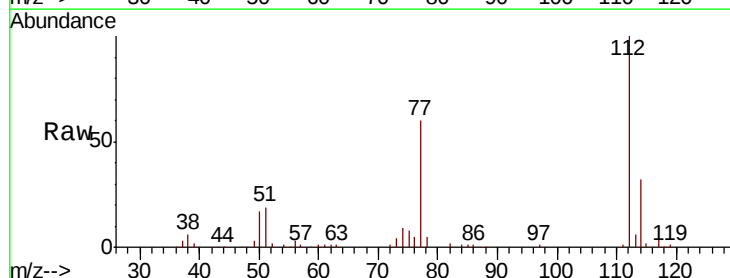


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

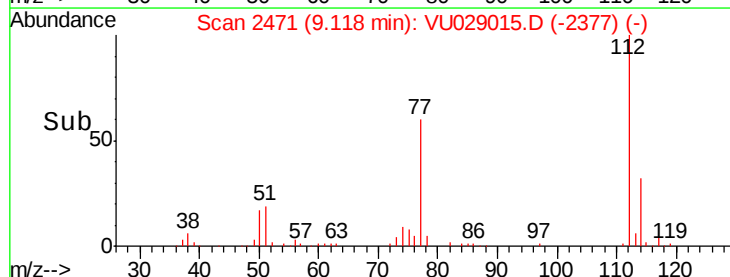
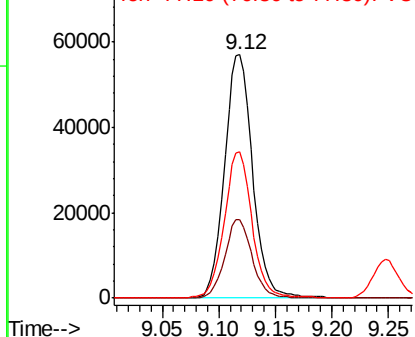


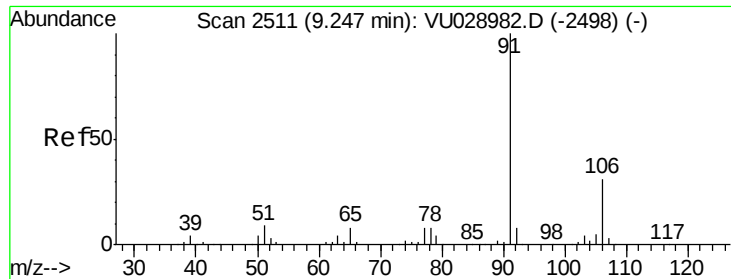
#51
Chlorobenzene
Concen: 4.929 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Tgt Ion:112 Resp: 98462
Ion Ratio Lower Upper
112 100
114 32.3 22.2 41.2
77 59.9 44.9 67.3



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

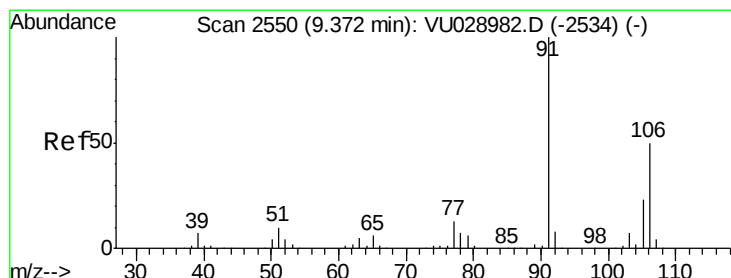
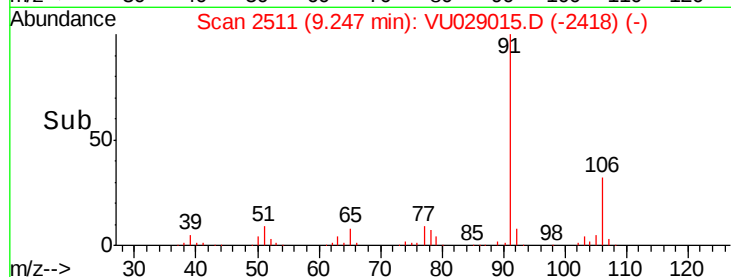
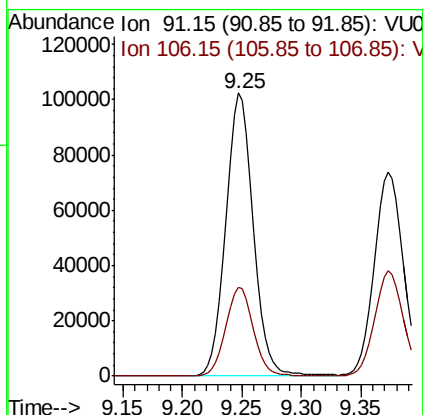
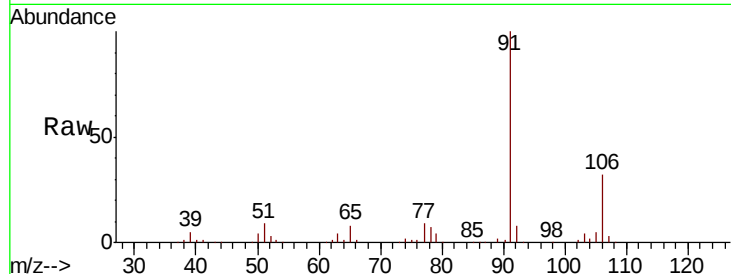




#52
Ethylbenzene
Concen: 4.860 ug/L
RT: 9.25 min Scan# 2511
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

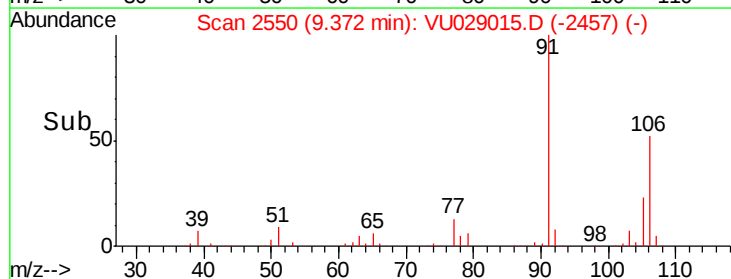
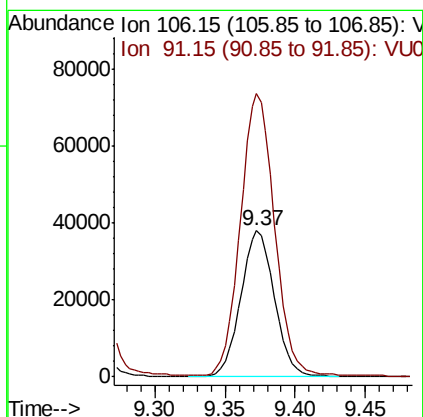
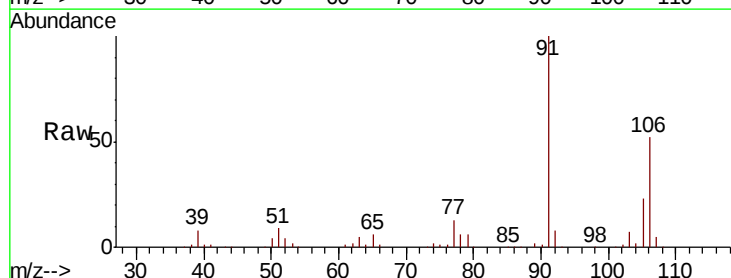
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

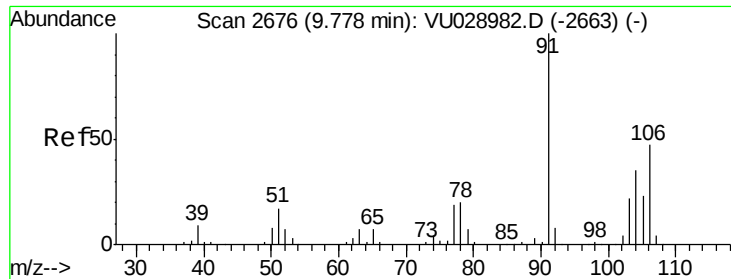
Tgt Ion: 91 Resp: 164217
Ion Ratio Lower Upper
91 100
106 31.5 22.7 42.1



#53
m,p-xylene
Concen: 4.924 ug/L
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Tgt Ion: 106 Resp: 63316
Ion Ratio Lower Upper
106 100
91 193.4 138.5 257.1

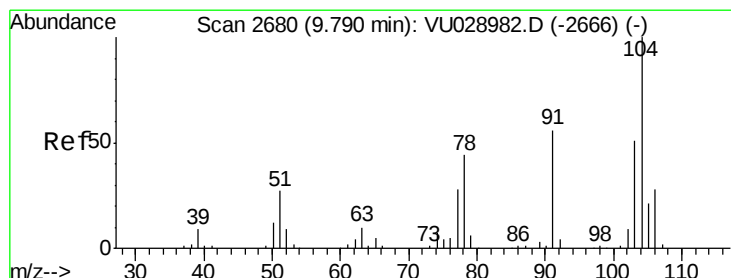
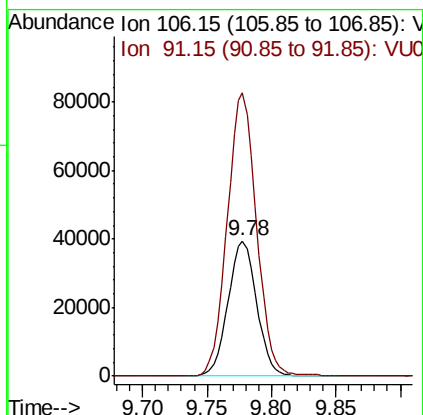
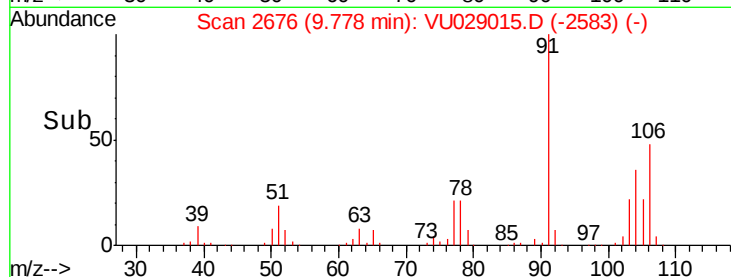
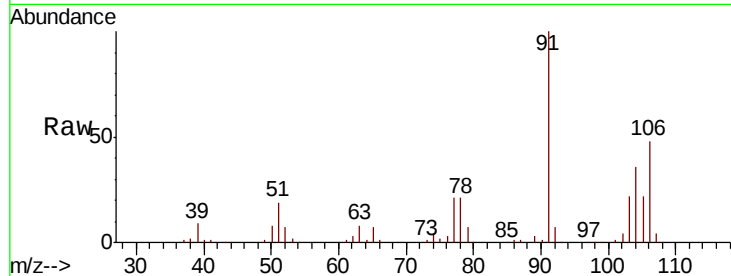




#54
o-xylene
Concen: 4.887 ug/L
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

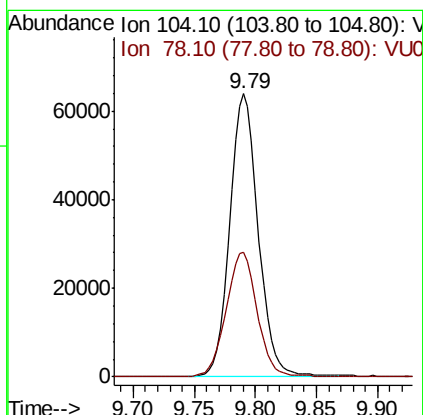
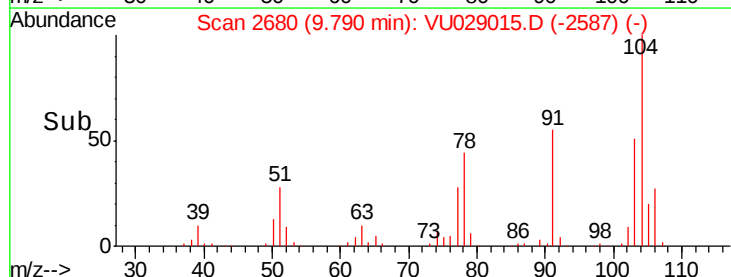
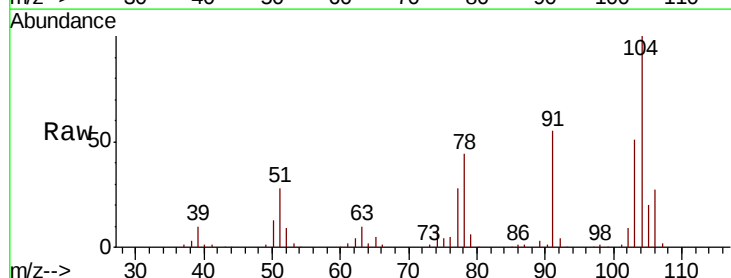
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

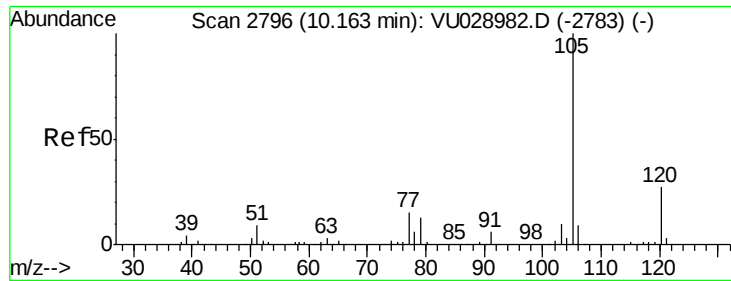
Tgt Ion:106 Resp: 60996
Ion Ratio Lower Upper
106 100
91 209.1 146.5 272.1



#55
Styrene
Concen: 5.024 ug/L
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029015.D
Acq: 04 Jan 2019 09:37

Tgt Ion:104 Resp: 104360
Ion Ratio Lower Upper
104 100
78 44.2 30.9 57.5





#56

Isopropylbenzene

Concen: 4.818 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

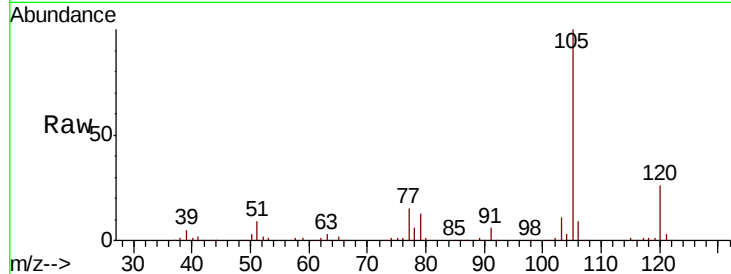
Tgt Ion: 105 Resp: 158600

Ion Ratio Lower Upper

105 100

120 26.3 20.9 31.3

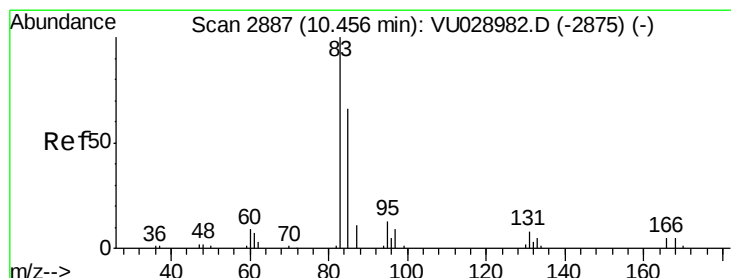
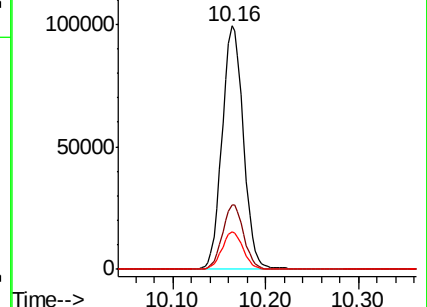
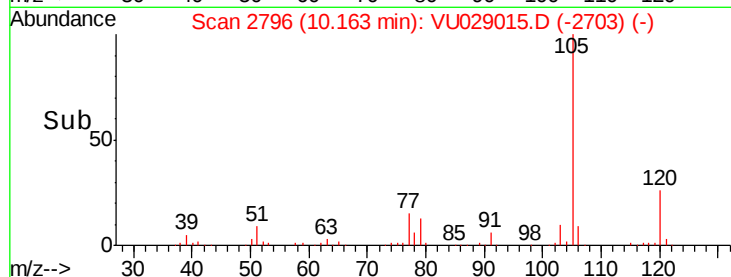
77 15.3 12.0 18.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.528 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

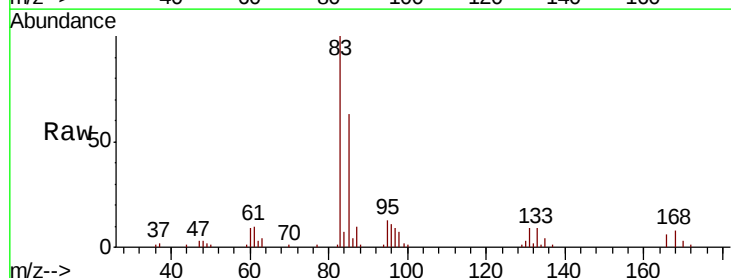
Tgt Ion: 83 Resp: 34909

Ion Ratio Lower Upper

83 100

85 63.2 44.0 81.8

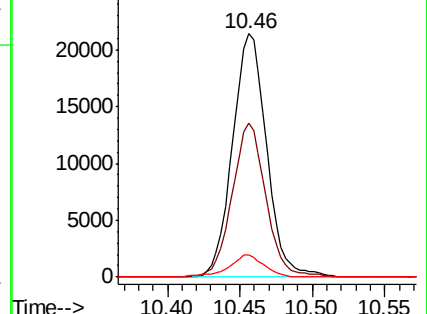
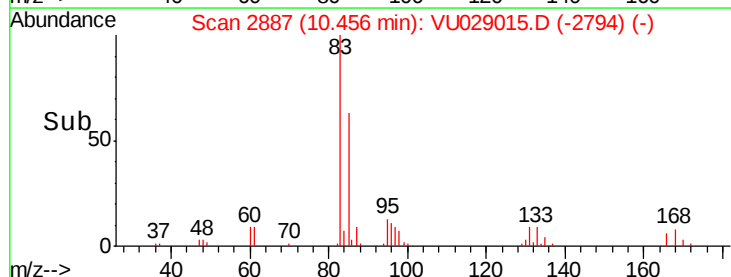
131 9.1 7.8 11.8

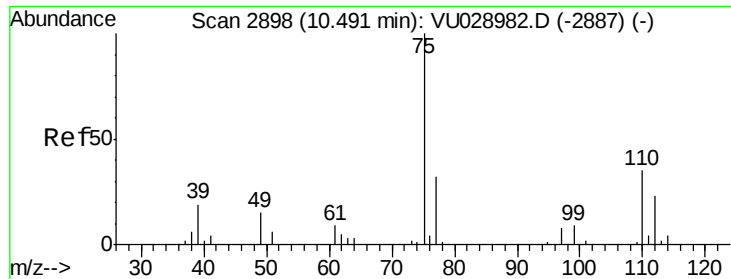


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.352 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

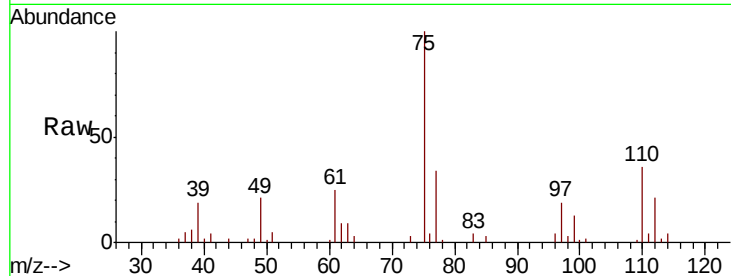
VSTD00551

Tgt Ion: 75 Resp: 23651

Ion Ratio Lower Upper

75 100

77 33.2 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU028982.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU028982.D (-2887) (-)

10.49

15000

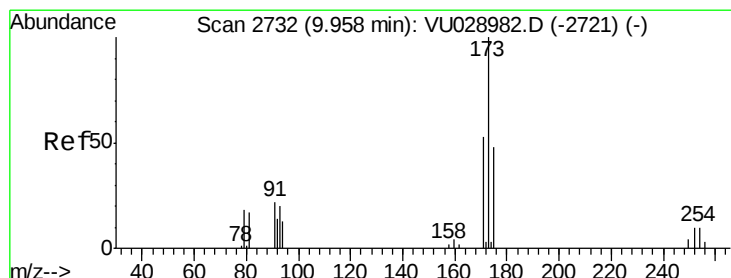
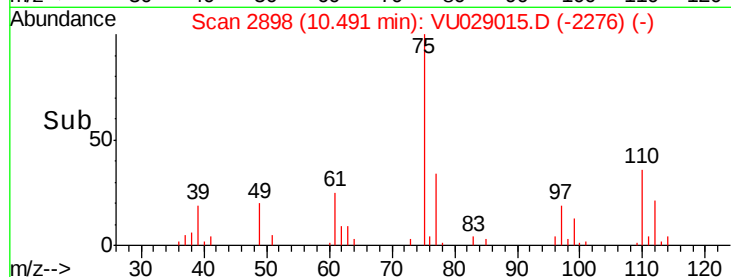
10000

5000

0

10.45 10.50 10.55

Time-->



#61

Bromoform

Concen: 5.753 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

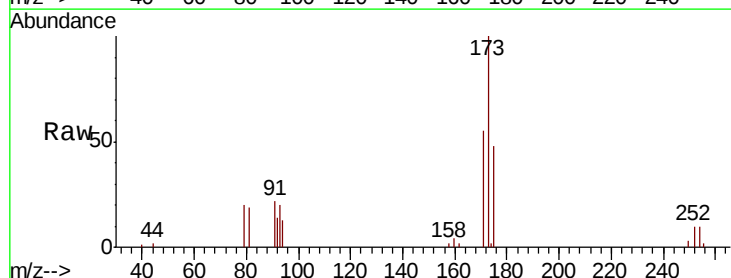
Tgt Ion: 173 Resp: 17207

Ion Ratio Lower Upper

173 100

175 46.1 35.4 53.2

254 10.6 7.5 11.3



Abundance Ion 172.90 (172.60 to 173.60): VU028982.D (-2721) (-)

Ion 174.90 (174.60 to 175.60): VU028982.D (-2721) (-)

Ion 253.75 (253.45 to 254.45): VU028982.D (-2721) (-)

9.96

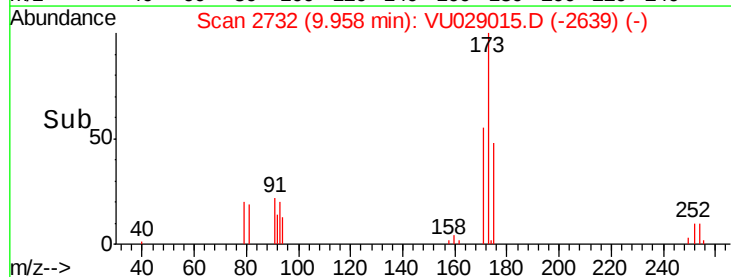
10000

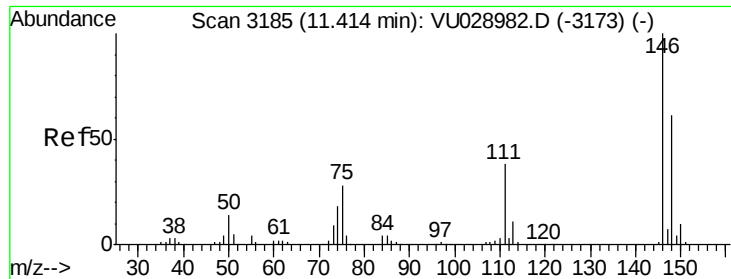
5000

0

9.90 9.95 10.00

Time-->

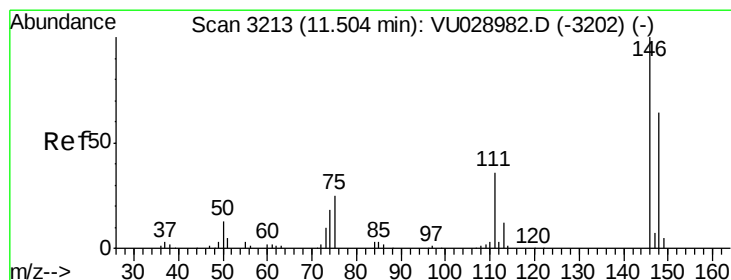
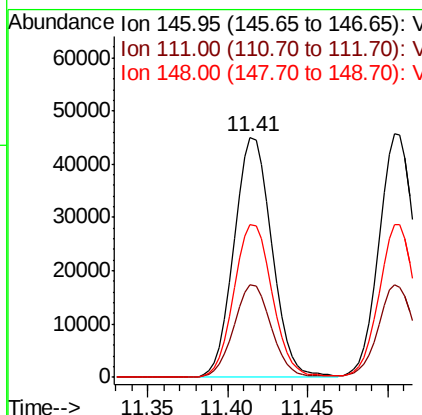
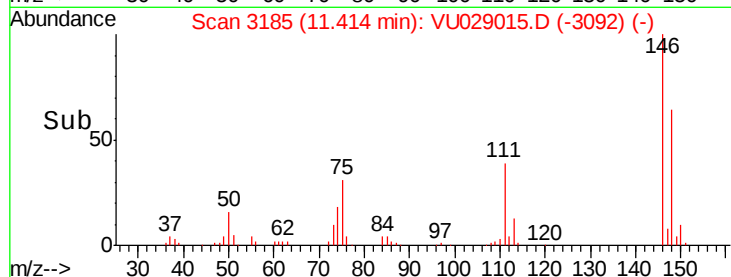
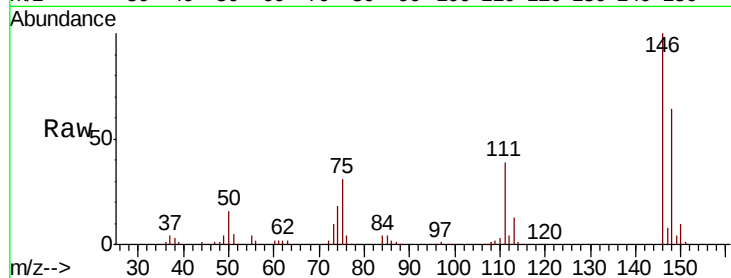




#62
 1,3-Dichlorobenzene
 Concen: 4.899 ug/L
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

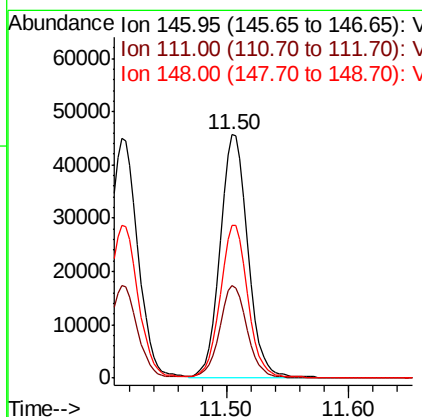
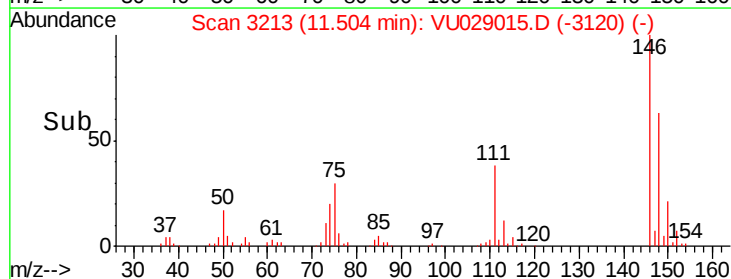
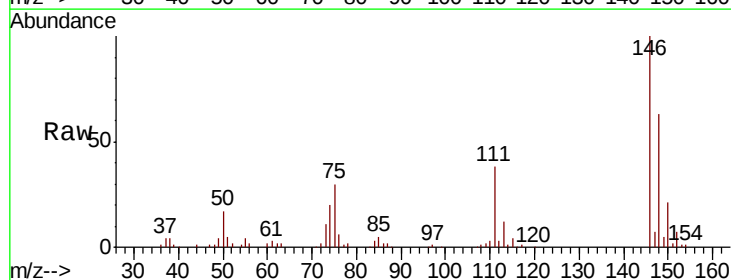
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

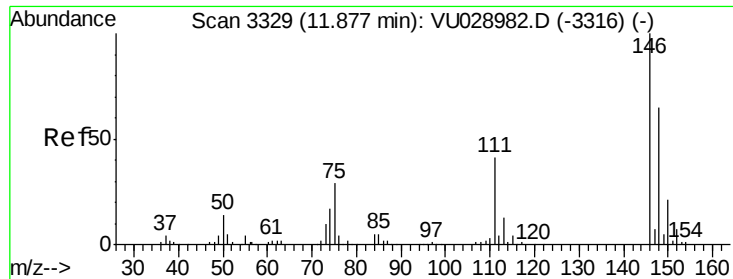
Tgt Ion:146 Resp: 72599
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.7 51.5
 148 63.7 44.9 83.5



#63
 1,4-Dichlorobenzene
 Concen: 4.859 ug/L
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Tgt Ion:146 Resp: 73484
 Ion Ratio Lower Upper
 146 100
 111 38.1 24.9 46.3
 148 62.9 44.9 83.3





#65

1,2-Dichlorobenzene

Concen: 5.066 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

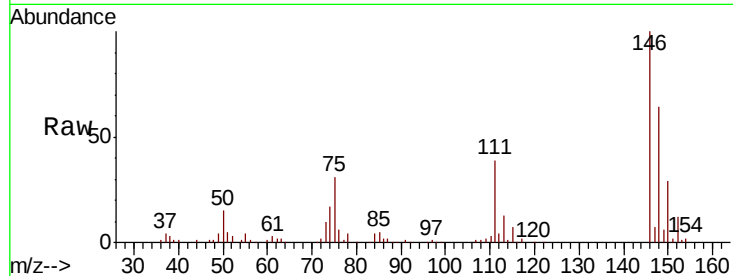
Tgt Ion: 146 Resp: 71039

Ion Ratio Lower Upper

146 100

111 39.4 32.2 48.4

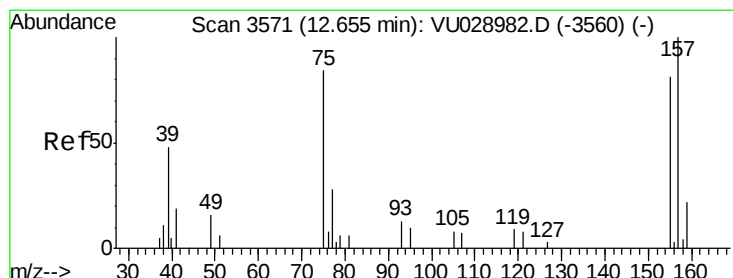
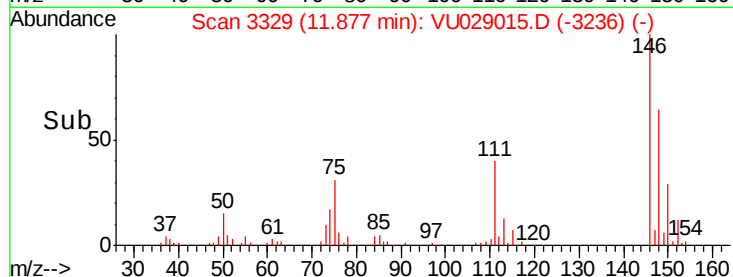
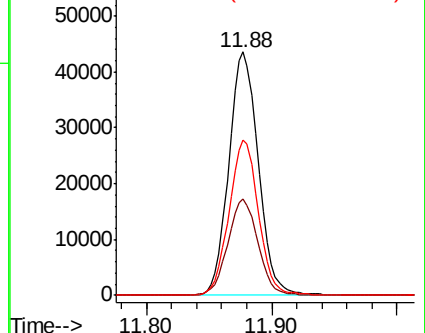
148 64.0 53.2 79.8



Abundance Ion 145.95 (145.65 to 146.65): 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: 6.104 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

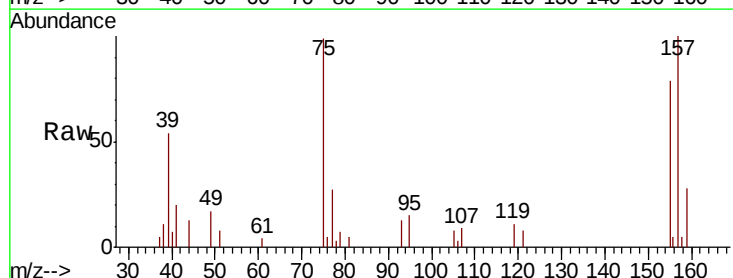
Tgt Ion: 75 Resp: 5054

Ion Ratio Lower Upper

75 100

155 79.9 72.2 108.2

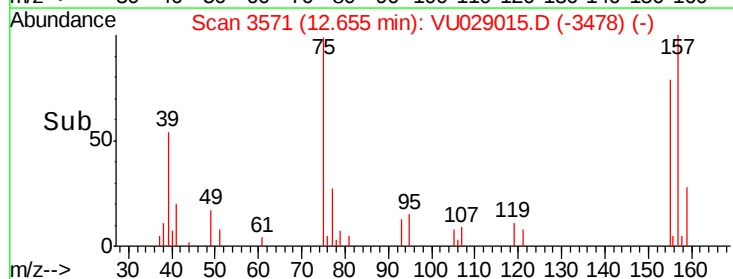
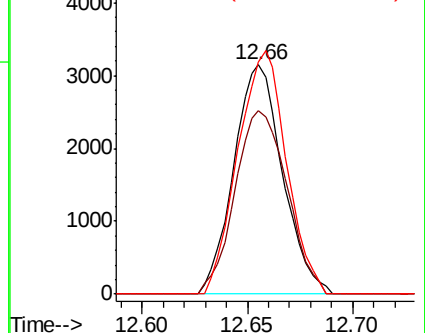
157 101.0 93.0 139.6

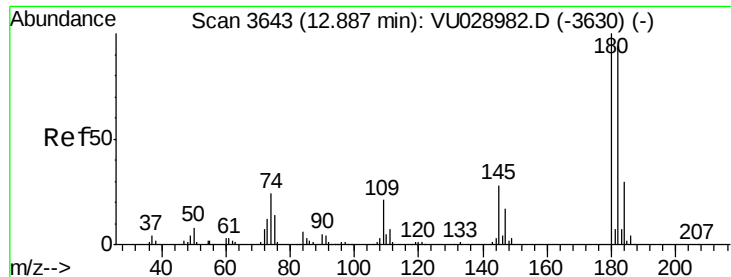


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

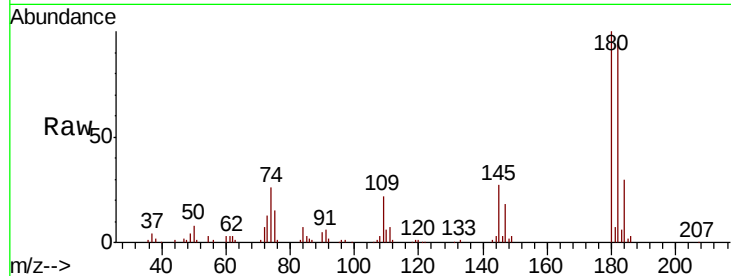




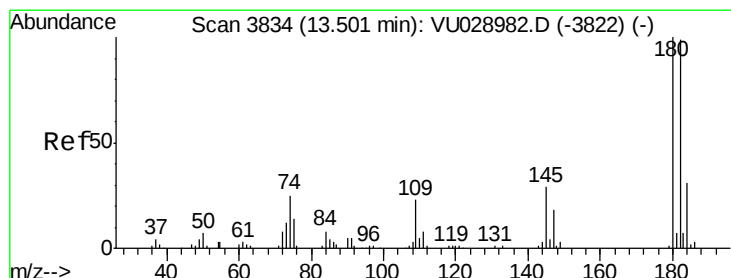
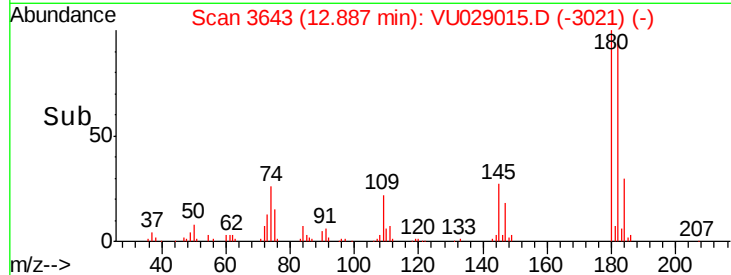
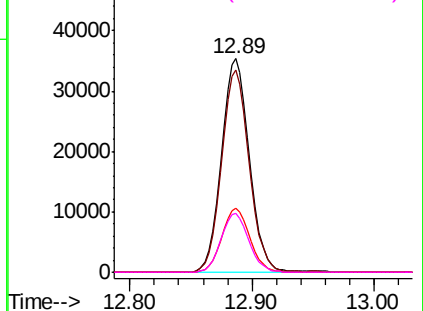
#67
 1,3,5-Trichlorobenzene
 Concen: 4.959 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00551

Tgt Ion:	180	Resp:	56869
Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.6	114.8
184	29.8	24.4	36.6
145	27.4	21.7	32.5

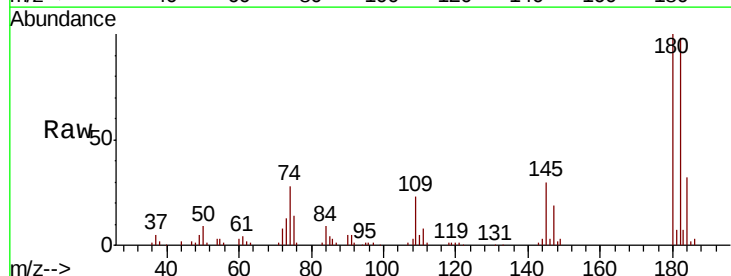


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

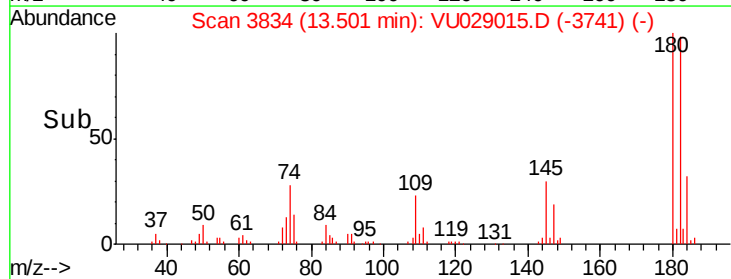
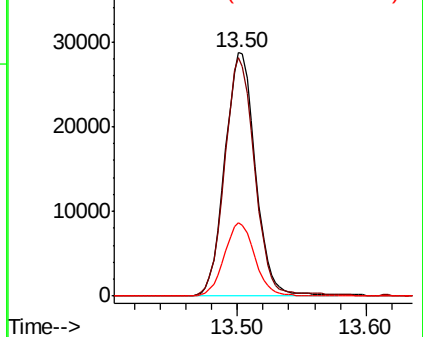


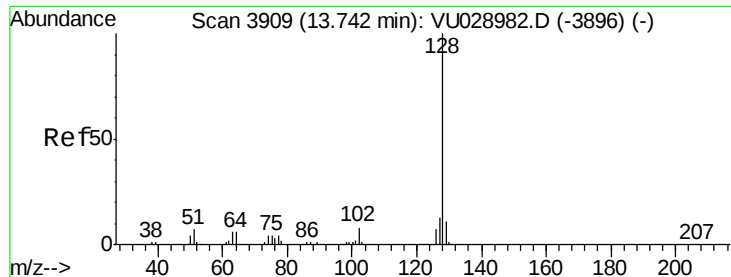
#68
 1,2,4-trichlorobenzene
 Concen: 4.932 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU029015.D
 Acq: 04 Jan 2019 09:37

Tgt Ion:	180	Resp:	47131
Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.0	114.0
145	29.9	22.6	33.8



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.446 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

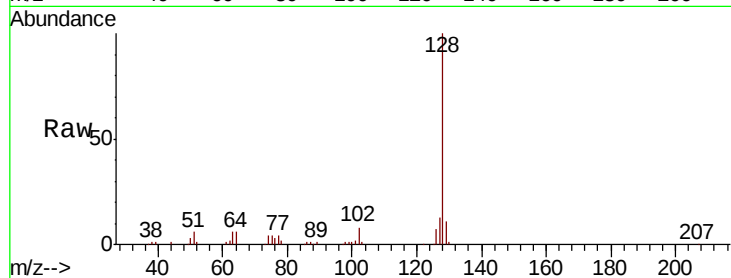
Tgt Ion:128 Resp: 89021

Ion Ratio Lower Upper

128 100

129 10.4 8.3 12.5

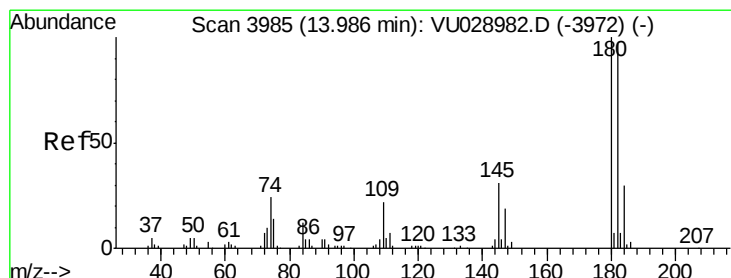
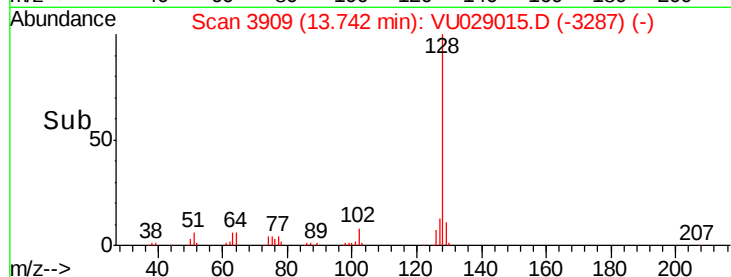
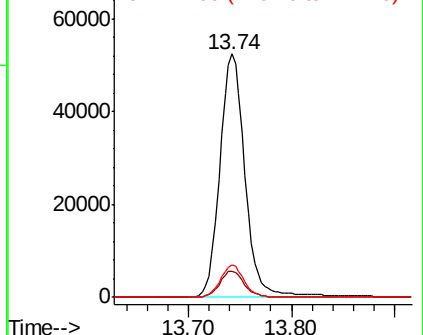
127 12.4 9.8 14.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.052 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU029015.D

Acq: 04 Jan 2019 09:37

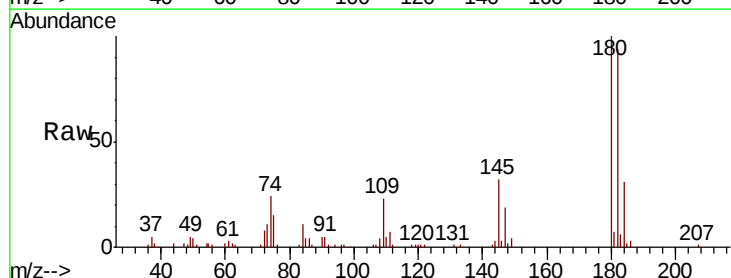
Tgt Ion:180 Resp: 46045

Ion Ratio Lower Upper

180 100

182 95.8 77.1 115.7

145 30.0 24.6 36.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

