

Data File : VU028989.D
Acq On : 02 Jan 2019 14:51
Operator : MD/SY
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Quant Time: Jan 03 03:52:13 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	95587	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	92999	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	45937	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	24371	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.68	69	21926	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.20%
11) 1,1-Dichloroethene-d2	2.28	63	50236	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.80%
20) 2-Butanone-d5	4.19	46	74242	55.53	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.06%
24) Chloroform-d	4.65	84	50951	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.40%
26) 1,2-Dichloroethane-d4	5.31	65	24585	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
32) Benzene-d6	5.34	84	104039	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
36) 1,2-Dichloropropane-d6	6.33	67	34954	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.56	98	92857	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
43) trans-1,3-Dichloropropene-	7.85	79	12281	4.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.00%
46) 2-Hexanone-d5	8.31	63	60702	50.95	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.90%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	29583	5.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	36558	4.76	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	40401	4.826	ug/L 97
3) Chloromethane	1.32	50	47565	5.092	ug/L 96
5) Vinyl chloride	1.40	62	47381	4.964	ug/L 98
6) Bromomethane	1.63	94	21387	4.840	ug/L 98
8) Chloroethane	1.70	64	27471	5.044	ug/L 98
9) Trichlorofluoromethane	1.89	101	49862	4.568	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	32964	4.680	ug/L 97
12) 1,1-Dichloroethene	2.28	96	32605	4.761	ug/L 91
13) Acetone	2.32	43	52949	49.063	ug/L 99
14) Carbon disulfide	2.48	76	117142	4.895	ug/L 99
15) Methyl Acetate	2.62	43	15750	4.981	ug/L 94
16) Methylene chloride	2.70	84	38712	3.948	ug/L 97
17) Methyl tert-butyl Ether	3.00	73	76434	4.545	ug/L 96
18) trans-1,2-Dichloroethene	2.98	96	35123	4.671	ug/L 99
19) 1,1-Dichloroethane	3.44	63	64131	5.024	ug/L 99
21) 2-Butanone	4.28	43	87669	54.298	ug/L 98
22) cis-1,2-Dichloroethene	4.22	96	37508	4.822	ug/L 99

Data File : VU028989.D
Acq On : 02 Jan 2019 14:51
Operator : MD/SY
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Quant Time: Jan 03 03:52:13 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)
23) Bromochloromethane	4.55	128	16186	5.128	ug/L	96
25) Chloroform	4.67	83	61311	5.055	ug/L	100
27) 1,2-Dichloroethane	5.40	62	36830	5.133	ug/L	100
29) 1,1,1-Trichloroethane	4.91	97	48982	4.796	ug/L	99
30) Cyclohexane	4.99	56	58236	4.759	ug/L	97
31) Carbon tetrachloride	5.13	117	39390	4.843	ug/L	98
33) Benzene	5.39	78	144193	4.849	ug/L	100
34) Trichloroethene	6.18	95	35952	4.728	ug/L	96
35) Methylcyclohexane	6.41	83	60180	4.608	ug/L	96
37) 1,2-Dichloropropane	6.43	63	39592	5.226	ug/L	100
38) Bromodichloromethane	6.76	83	42320	4.962	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	51874	4.775	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	211419	52.446	ug/L	97
42) Toluene	7.63	91	151886	4.771	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	41353	4.885	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	25564	4.958	ug/L	96
47) Tetrachloroethene	8.22	164	29422	4.672	ug/L	96
48) 2-Hexanone	8.36	43	151016	54.157	ug/L	97
49) Dibromochloromethane	8.48	129	27893	5.096	ug/L	99
50) 1,2-Dibromoethane	8.58	107	24073	4.992	ug/L	98
51) Chlorobenzene	9.12	112	94837	4.750	ug/L	98
52) Ethylbenzene	9.25	91	157085	4.652	ug/L	98
53) m,p-xylene	9.37	106	60459	4.705	ug/L	99
54) o-xylene	9.78	106	58768	4.711	ug/L	99
55) Styrene	9.79	104	99348	4.785	ug/L	99
56) Isopropylbenzene	10.16	105	149816	4.554	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	33290	5.274	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	22926	5.191	ug/L	98
61) Bromoform	9.96	173	16584	5.291	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	72576	4.674	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	72857	4.598	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	69499	4.730	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	4463	5.144	ug/L	97
67) 1,3,5-Trichlorobenzene	12.89	180	57333	4.772	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	47501	4.744	ug/L	98
69) Naphthalene	13.74	128	80465	4.698	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	44968	4.708	ug/L	99

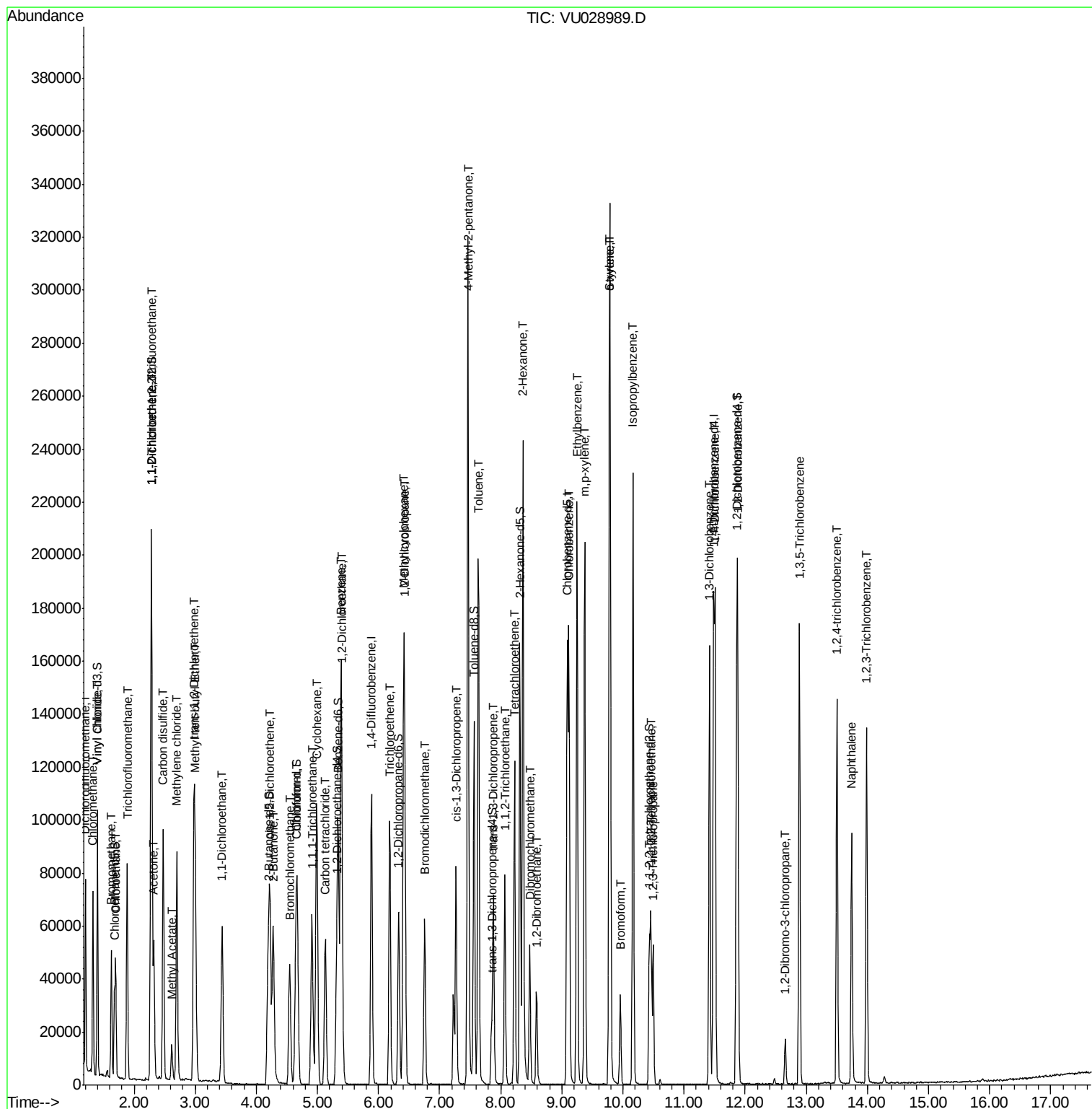
(#) = qualifier out of range (m) = manual integration (+) = signals summed

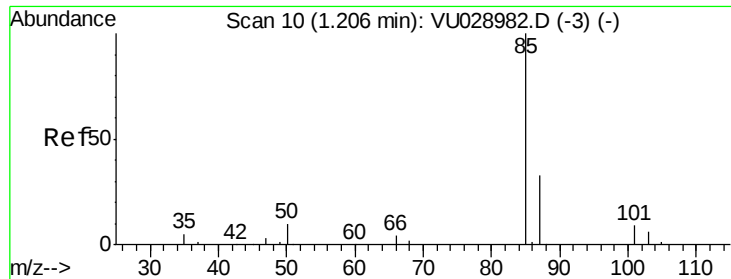
Data File : VU028989.D

```
Acq On       : 02 Jan 2019   14:51
Operator    : MD/SY
Sample      : VSTDCCC005EC
Misc       : 25.0mL/MSVOA_U/WATER
ALS Vial    : 10   Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Quant Time: Jan 03 03:52:13 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





#2

Dichlorodifluoromethane

Concen: 4.826 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

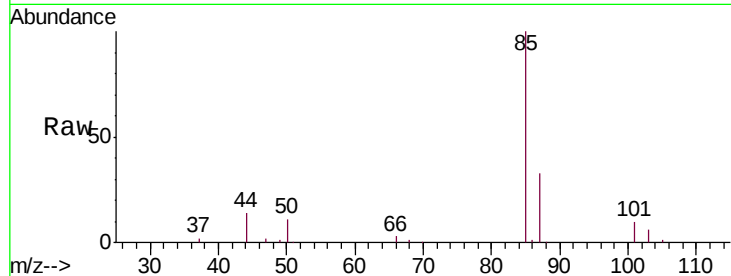
VSTD00552

Tgt Ion: 85 Resp: 40401

Ion Ratio Lower Upper

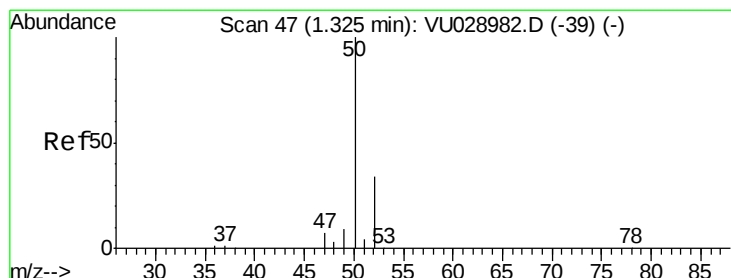
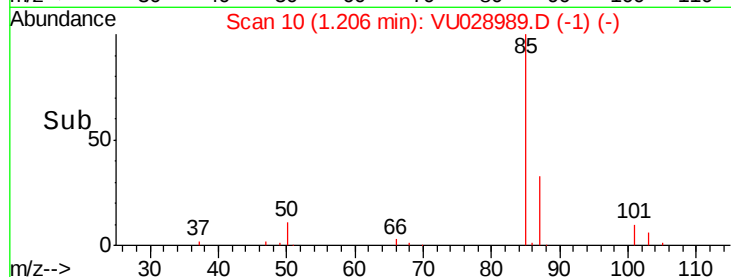
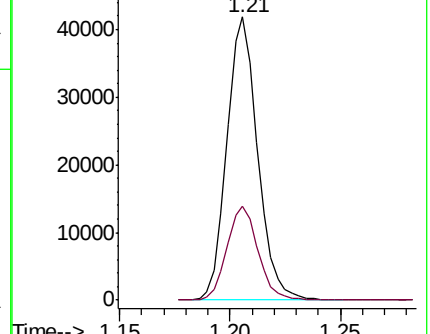
85 100

87 33.4 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 5.092 ug/L

RT: 1.32 min Scan# 47

Delta R.T. 0.00 min

Lab File: VU028989.D

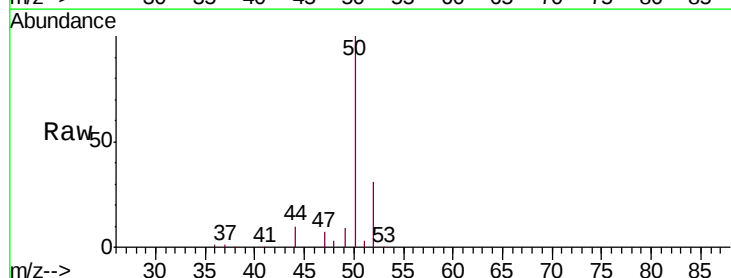
Acq: 02 Jan 2019 14:51

Tgt Ion: 50 Resp: 47565

Ion Ratio Lower Upper

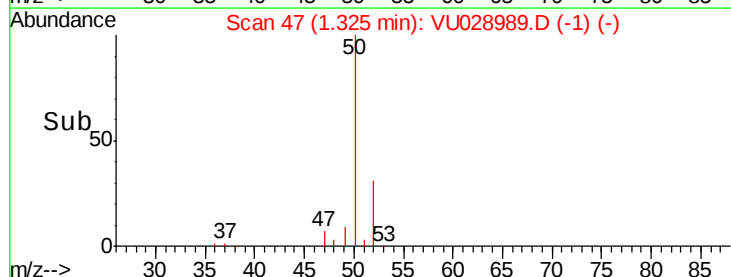
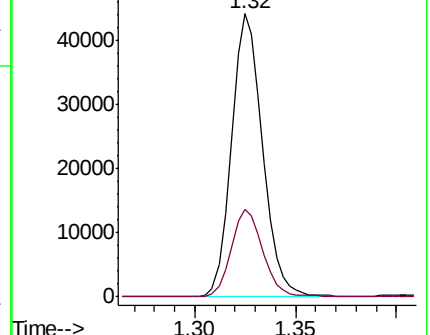
50 100

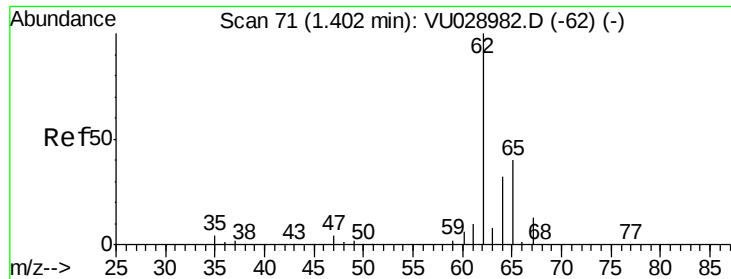
52 30.9 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.964 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

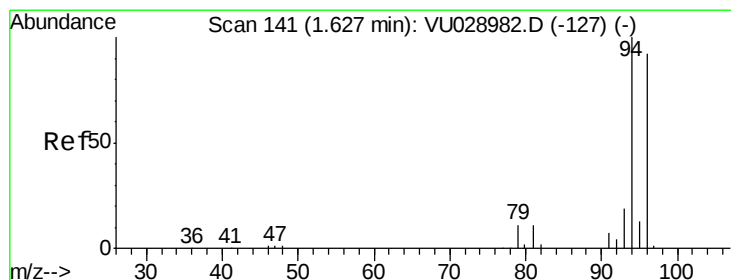
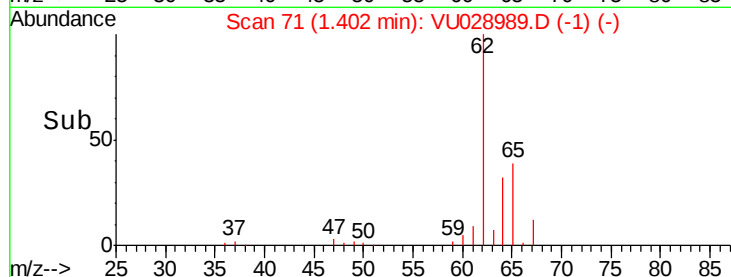
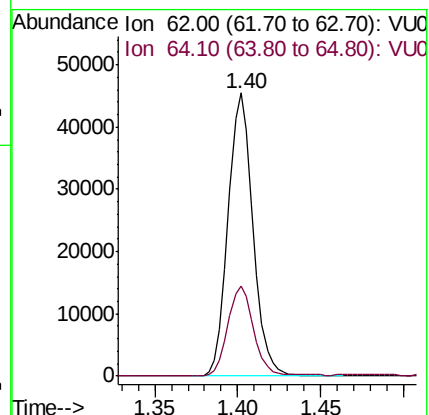
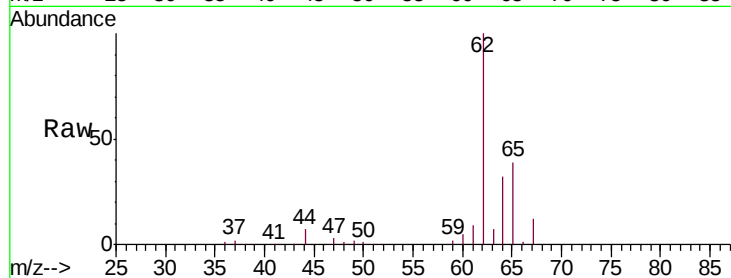
VSTD00552

Tgt Ion: 62 Resp: 47381

Ion Ratio Lower Upper

62 100

64 32.0 21.6 40.2



#6

Bromomethane

Concen: 4.840 ug/L

RT: 1.63 min Scan# 141

Delta R.T. 0.00 min

Lab File: VU028989.D

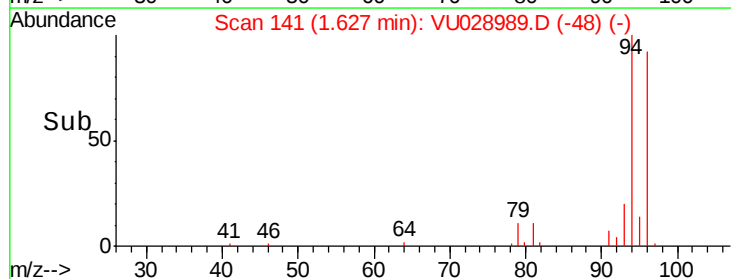
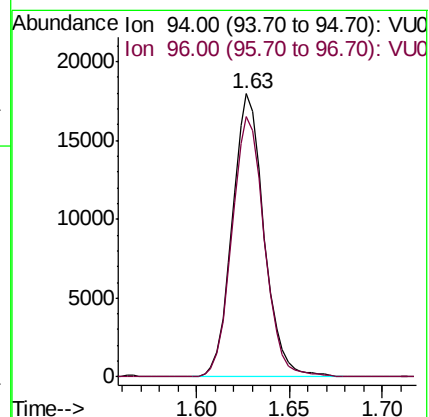
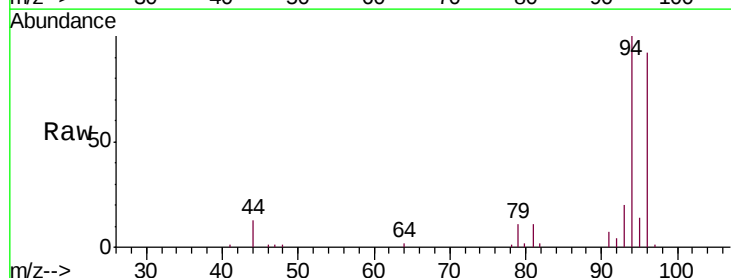
Acq: 02 Jan 2019 14:51

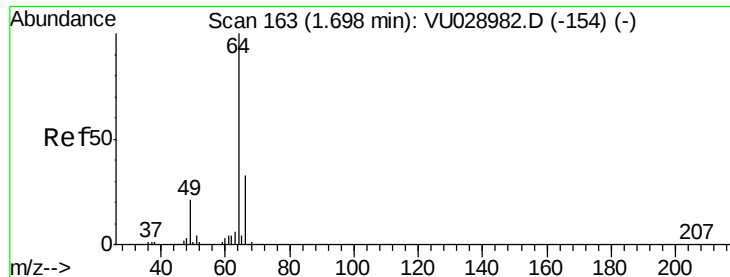
Tgt Ion: 94 Resp: 21387

Ion Ratio Lower Upper

94 100

96 92.2 66.0 122.6

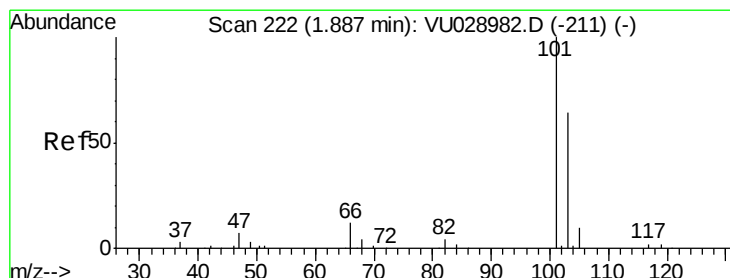
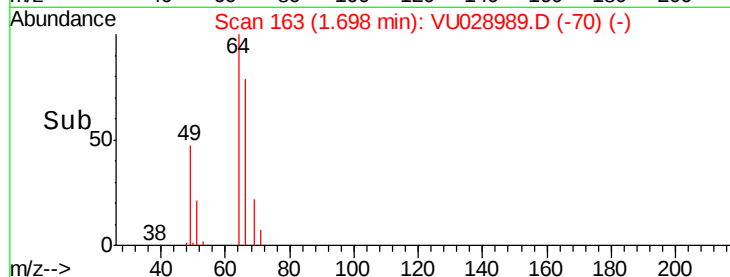
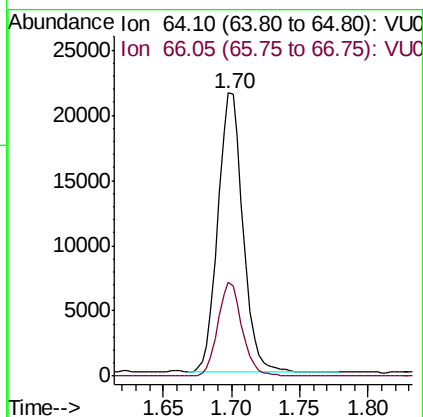
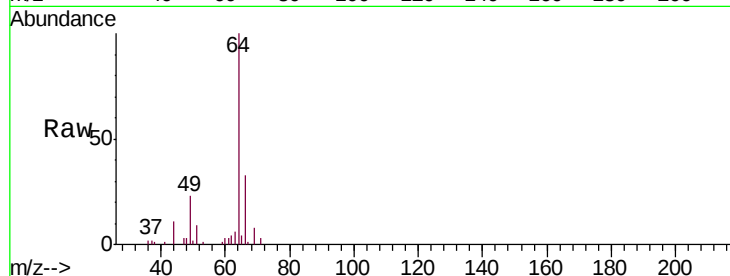




#8
Chloroethane
Concen: 5.044 ug/L
RT: 1.70 min Scan# 163
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

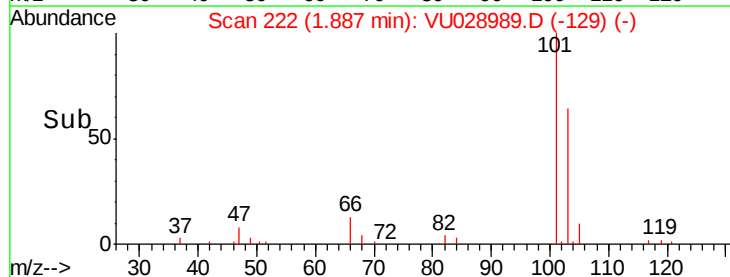
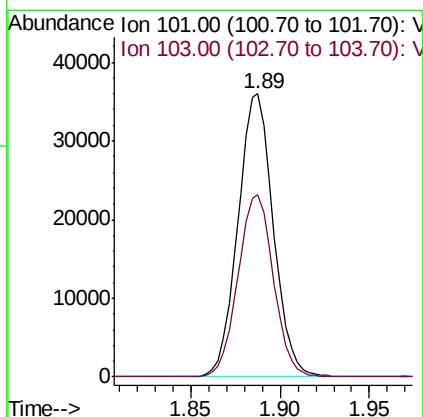
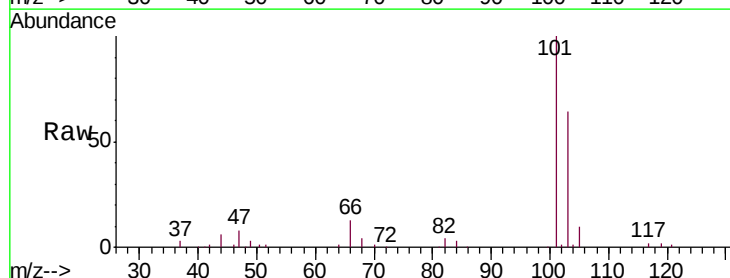
Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

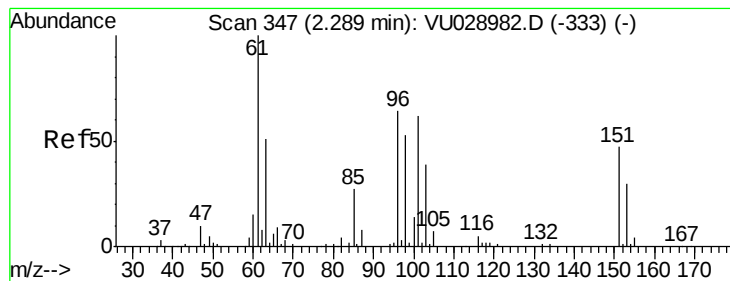
Tgt Ion: 64 Resp: 27471
Ion Ratio Lower Upper
64 100
66 33.4 22.6 42.0



#9
Trichlorofluoromethane
Concen: 4.568 ug/L
RT: 1.89 min Scan# 222
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Tgt Ion: 101 Resp: 49862
Ion Ratio Lower Upper
101 100
103 64.6 51.2 76.8





#10

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

Concen: 4.680 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

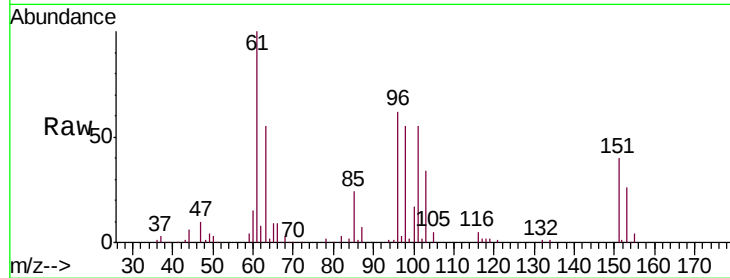
Tgt Ion:101 Resp: 32964

Ion Ratio Lower Upper

101 100

85 43.3 33.8 50.6

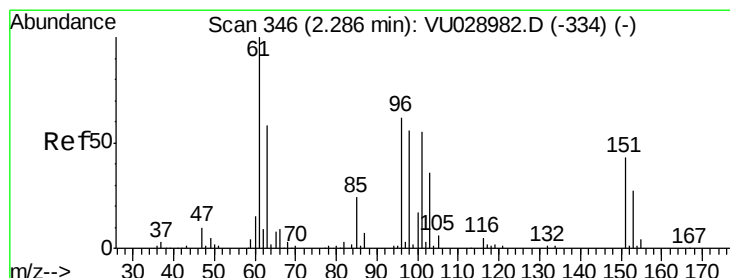
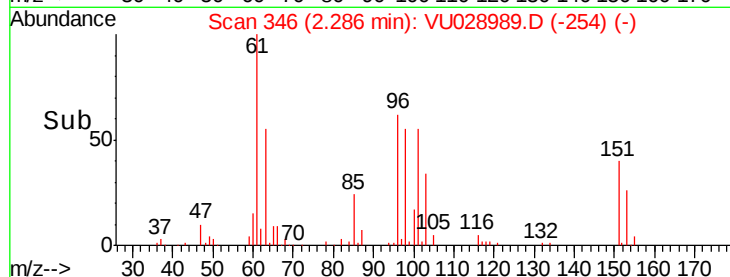
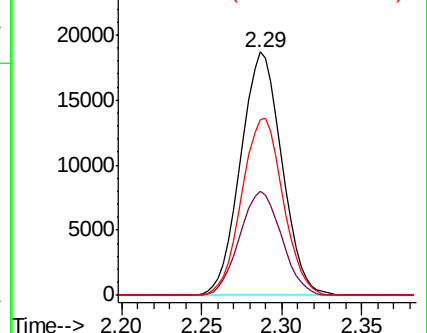
151 72.7 60.9 91.3



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: 4.761 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

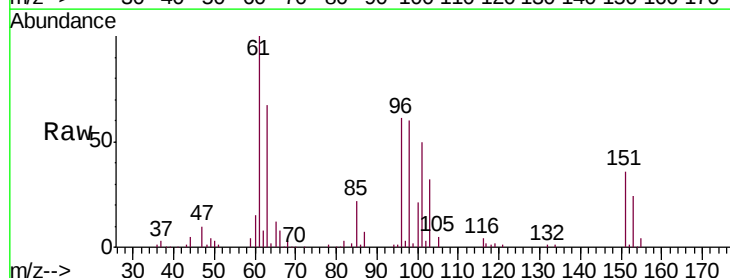
Tgt Ion: 96 Resp: 32605

Ion Ratio Lower Upper

96 100

61 165.2 110.5 205.3

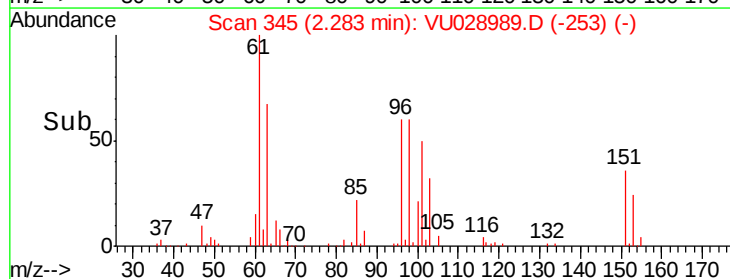
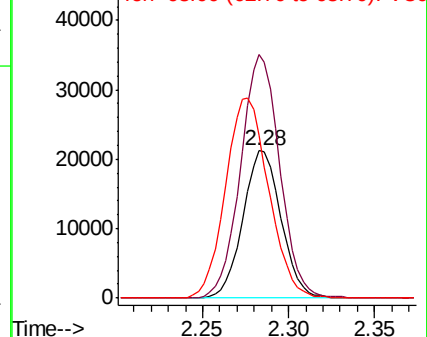
63 110.7 67.6 125.6

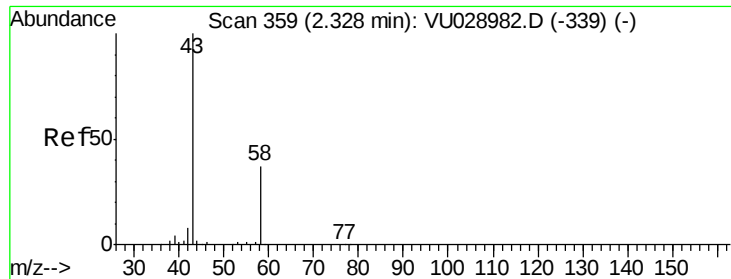


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.063 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

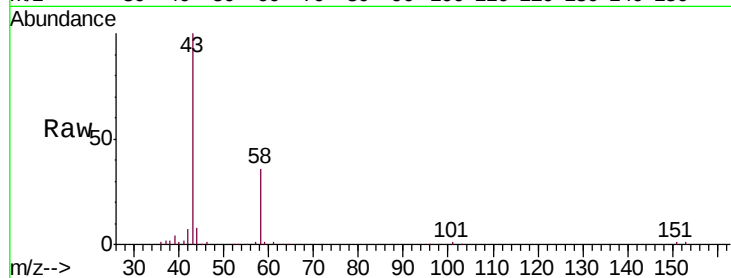
VSTD00552

Tgt Ion: 43 Resp: 52949

Ion Ratio Lower Upper

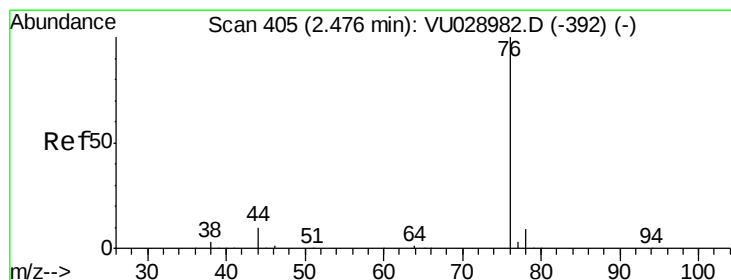
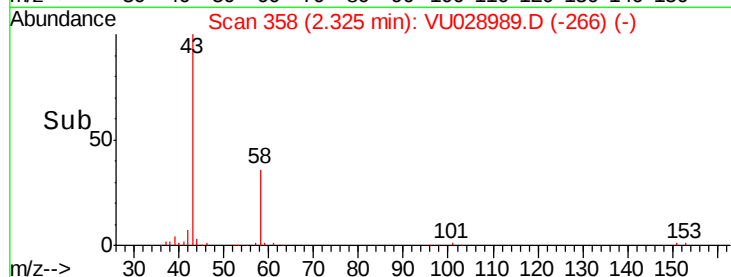
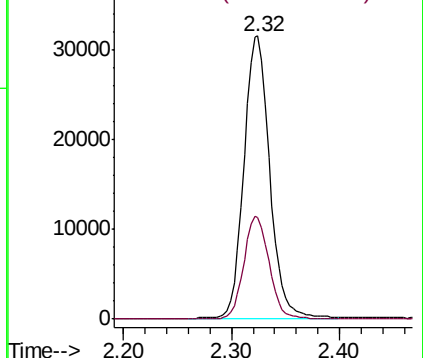
43 100

58 35.3 0.0 71.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.895 ug/L

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU028989.D

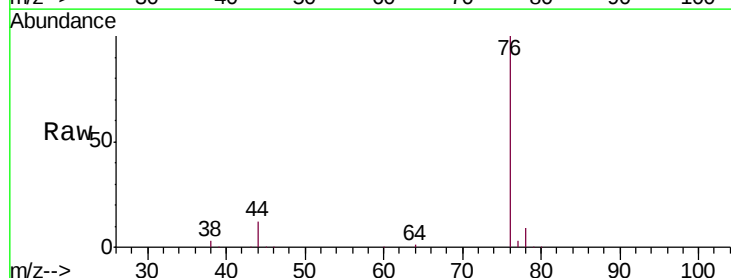
Acq: 02 Jan 2019 14:51

Tgt Ion: 76 Resp: 117142

Ion Ratio Lower Upper

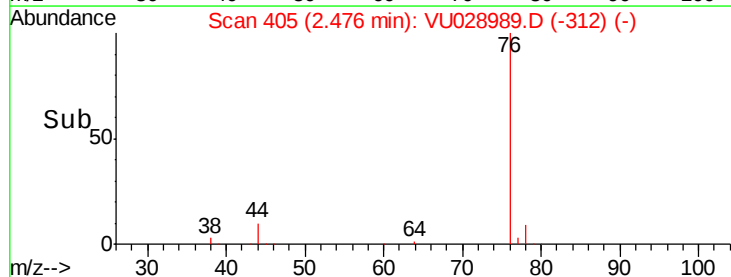
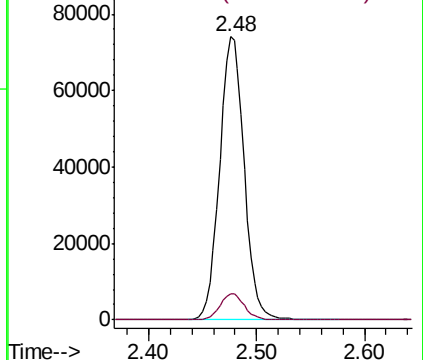
76 100

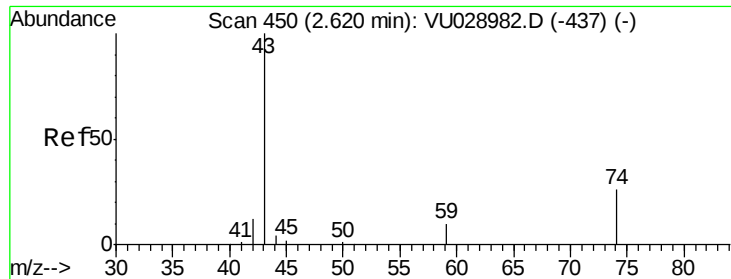
78 9.2 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

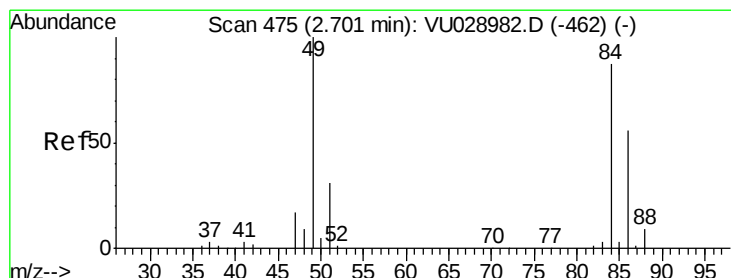
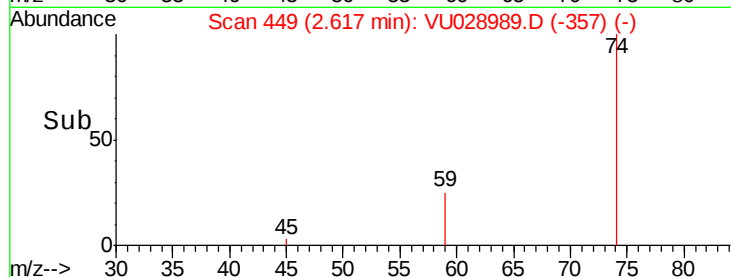
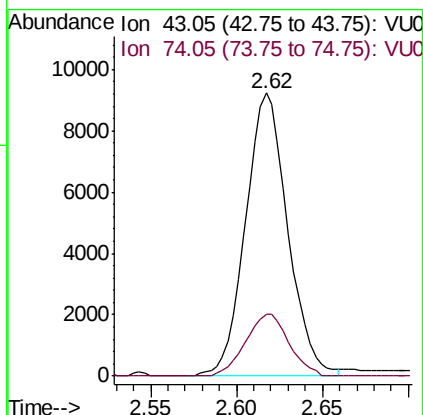
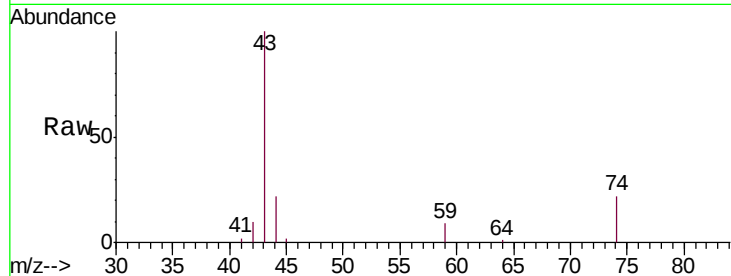




#15
Methyl Acetate
Concen: 4.981 ug/L
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

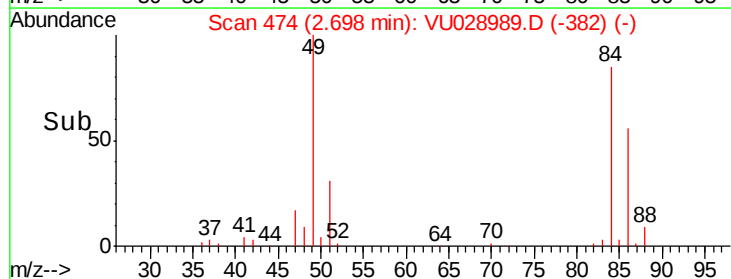
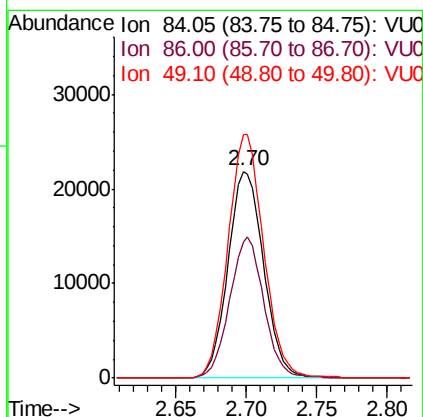
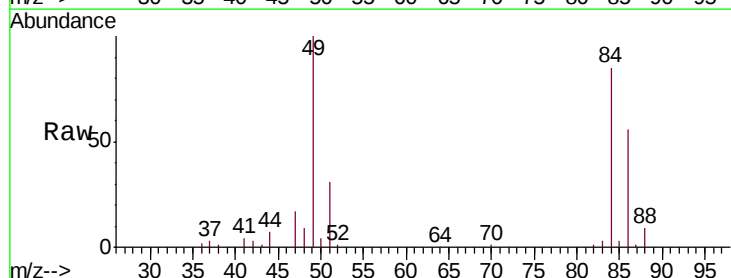
Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

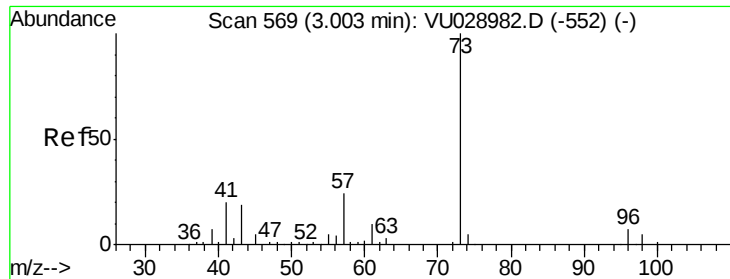
Tgt Ion: 43 Resp: 15750
Ion Ratio Lower Upper
43 100
74 22.5 20.6 30.8



#16
Methylene chloride
Concen: 3.948 ug/L
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Tgt Ion: 84 Resp: 38712
Ion Ratio Lower Upper
84 100
86 66.0 45.6 84.6
49 117.4 79.7 148.1

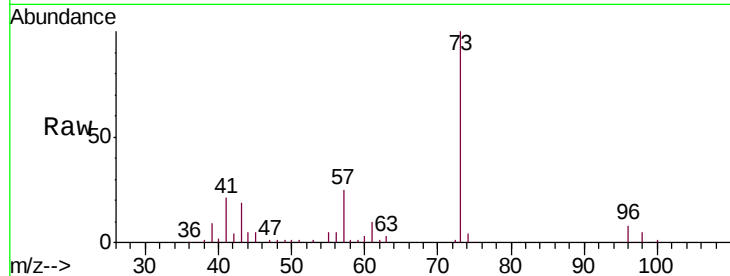




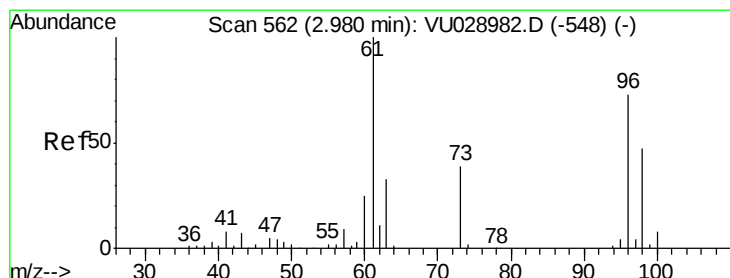
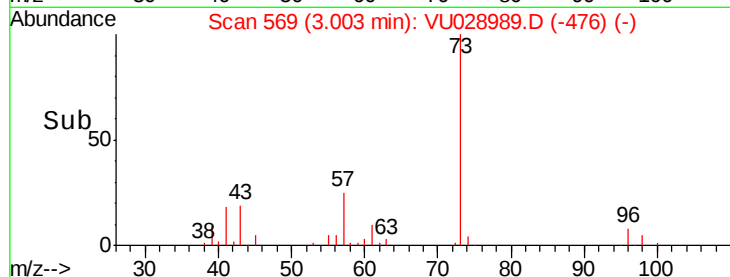
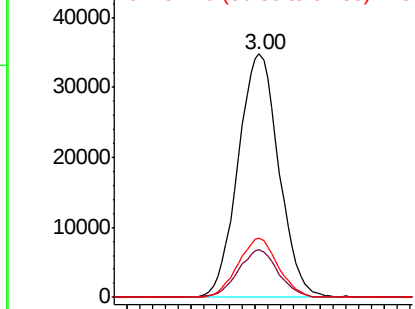
#17
Methyl tert-butyl Ether
Concen: 4.545 ug/L
RT: 3.00 min Scan# 569
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tgt Ion: 73 Resp: 76434
Ion Ratio Lower Upper
73 100
43 19.3 13.8 20.8
57 23.9 17.5 26.3

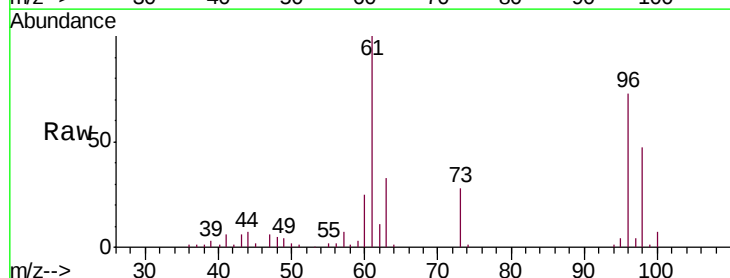


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

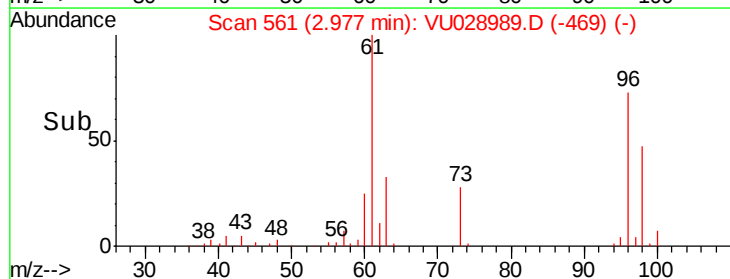
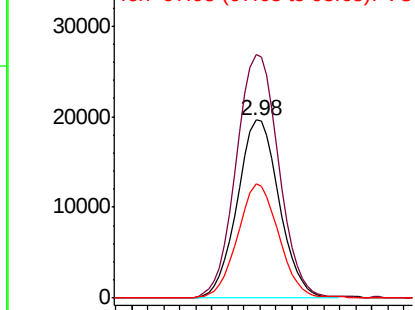


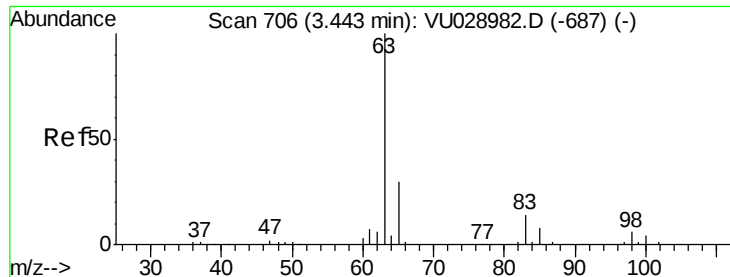
#18
trans-1,2-Dichloroethene
Concen: 4.671 ug/L
RT: 2.98 min Scan# 561
Delta R.T. -0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Tgt Ion: 96 Resp: 35123
Ion Ratio Lower Upper
96 100
61 136.8 96.6 179.4
98 64.4 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

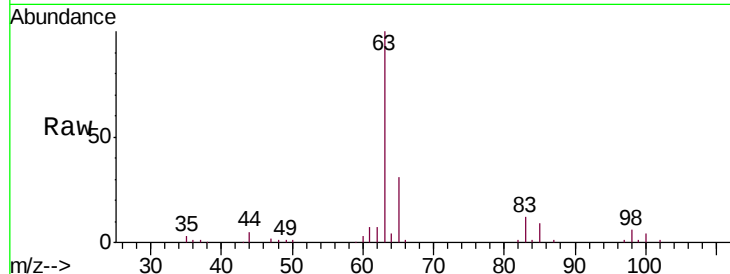




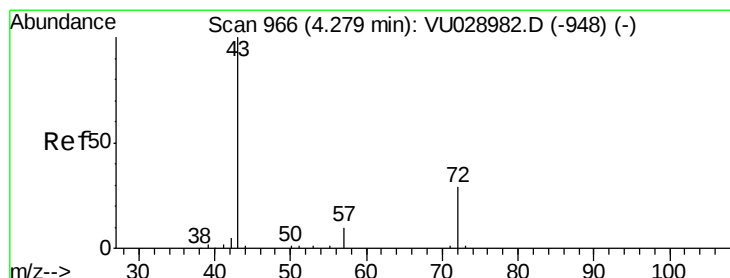
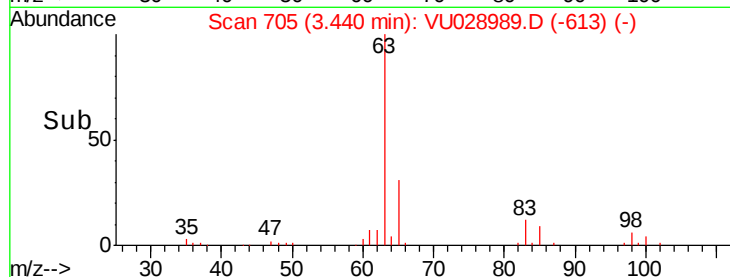
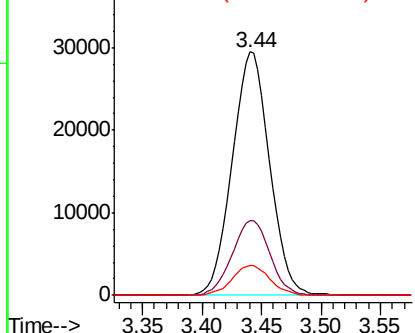
#19
 1,1-Dichloroethane
 Concen: 5.024 ug/L
 RT: 3.44 min Scan# 705
 Delta R.T. -0.00 min
 Lab File: VU028989.D
 Acq: 02 Jan 2019 14:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

Tgt Ion: 63 Resp: 64131
 Ion Ratio Lower Upper
 63 100
 65 30.8 21.8 40.6
 83 12.3 9.3 17.3

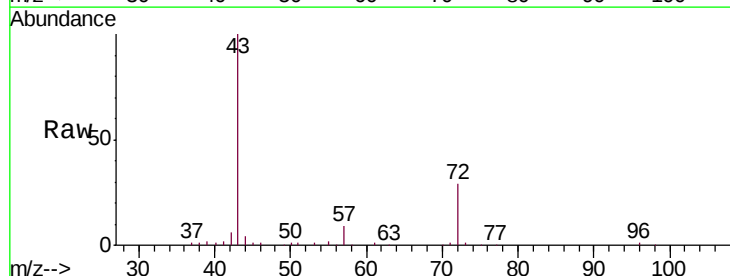


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

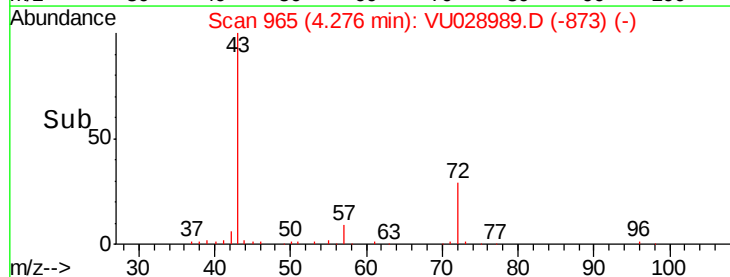
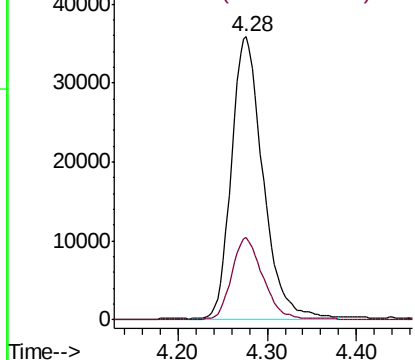


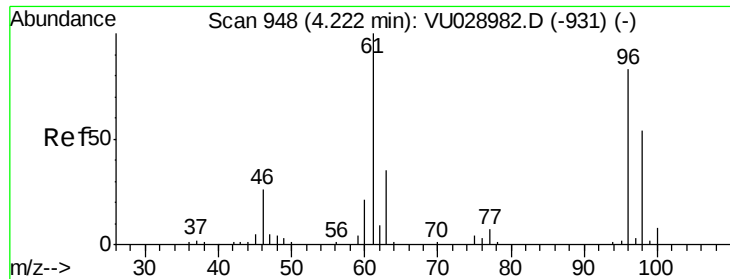
#21
 2-Butanone
 Concen: 54.298 ug/L
 RT: 4.28 min Scan# 965
 Delta R.T. -0.00 min
 Lab File: VU028989.D
 Acq: 02 Jan 2019 14:51

Tgt Ion: 43 Resp: 87669
 Ion Ratio Lower Upper
 43 100
 72 29.3 15.2 45.5



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



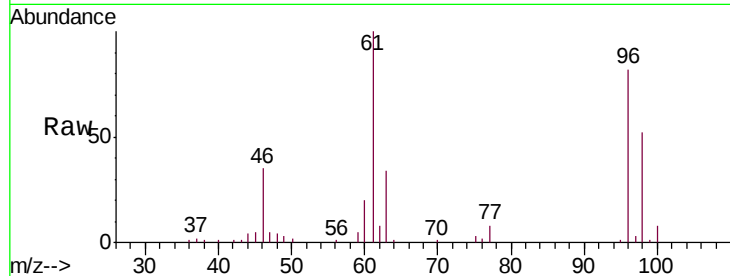


#22

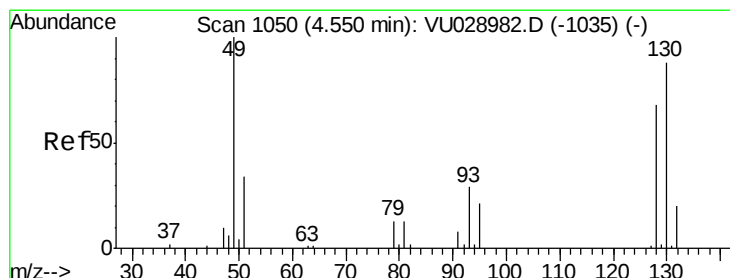
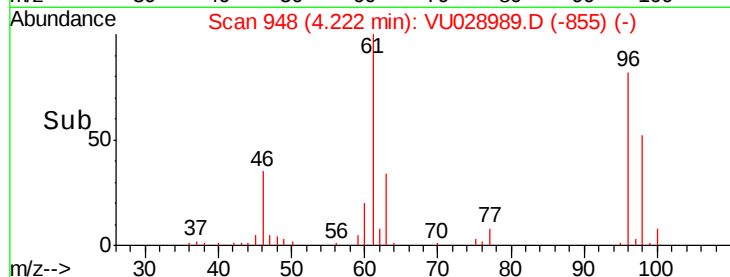
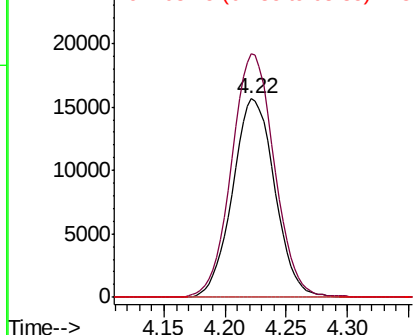
cis-1,2-Dichloroethene
Concen: 4.822 ug/L
RT: 4.22 min Scan# 948
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tgt Ion: 96 Resp: 37508
Ion Ratio Lower Upper
96 100
61 122.7 84.7 157.3
68 0.0 0.0 0.0



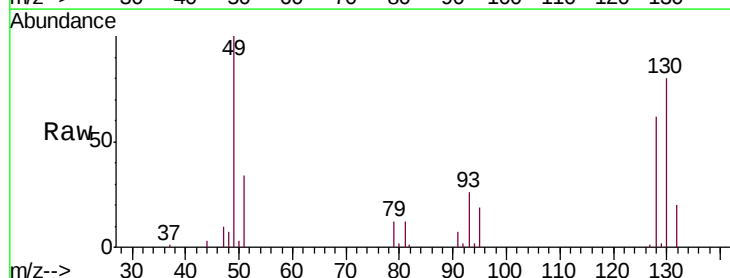
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



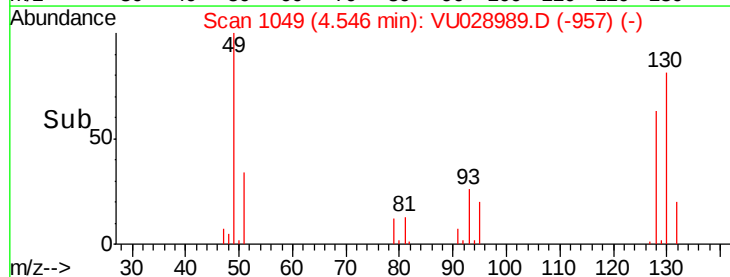
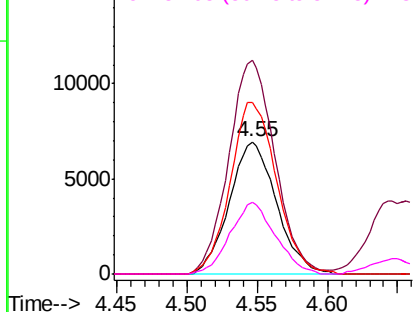
#23

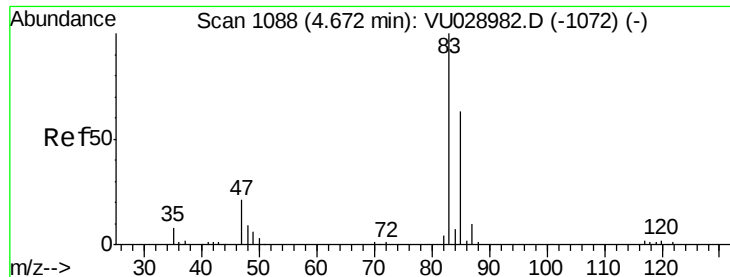
Bromochloromethane
Concen: 5.128 ug/L
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Tgt Ion: 128 Resp: 16186
Ion Ratio Lower Upper
128 100
49 161.4 109.3 202.9
130 129.8 88.7 164.7
51 54.1 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

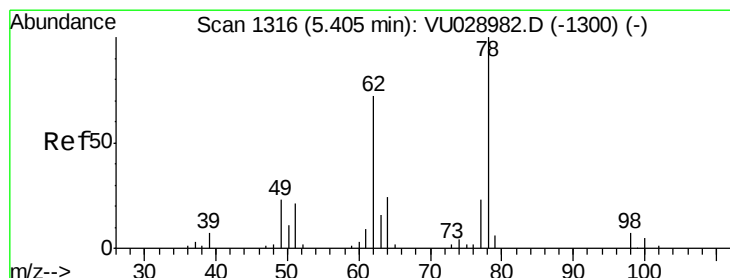
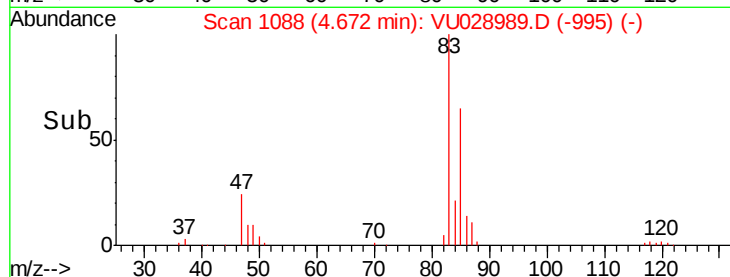
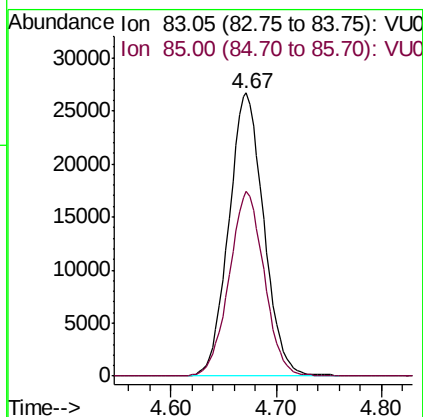
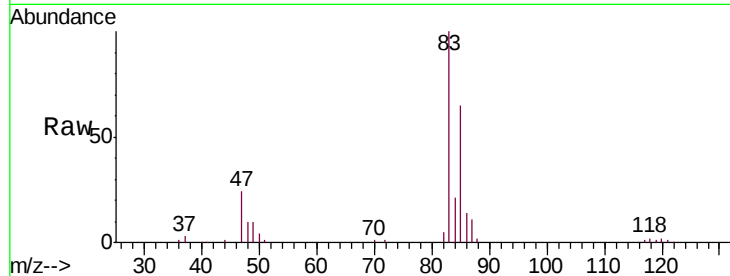




#25
Chloroform
Concen: 5.055 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

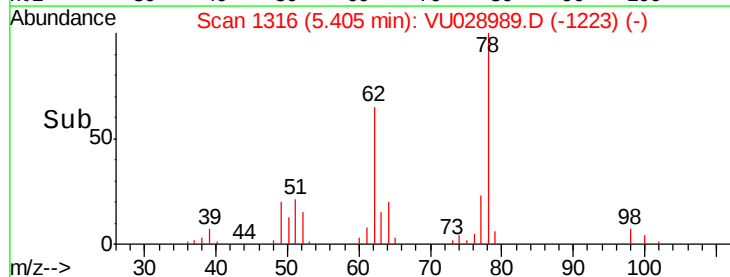
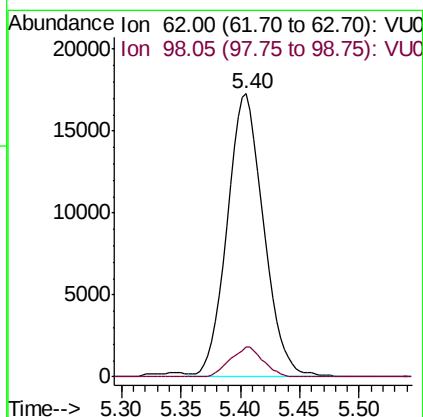
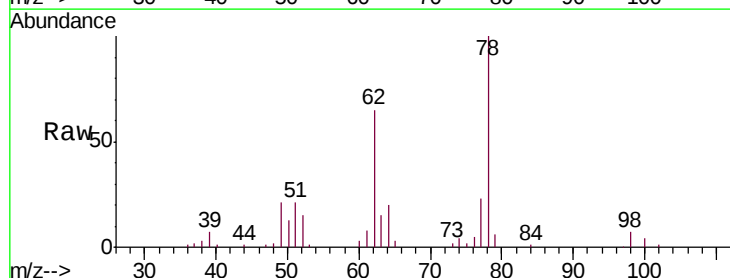
Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

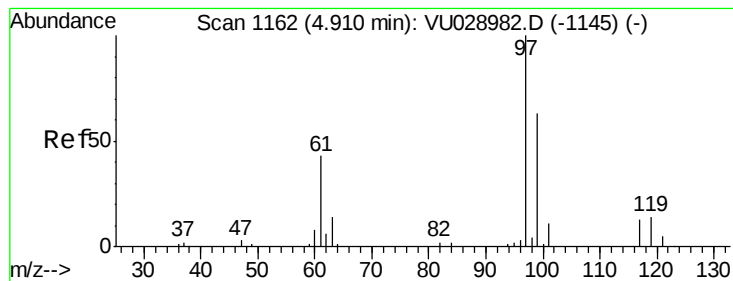
Tgt Ion: 83 Resp: 61311
Ion Ratio Lower Upper
83 100
85 65.1 45.6 84.8



#27
1,2-Dichloroethane
Concen: 5.133 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Tgt Ion: 62 Resp: 36830
Ion Ratio Lower Upper
62 100
98 10.4 8.2 12.2





#29

1,1,1-Trichloroethane

Concen: 4.796 ug/L

RT: 4.91 min Scan# 1162

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

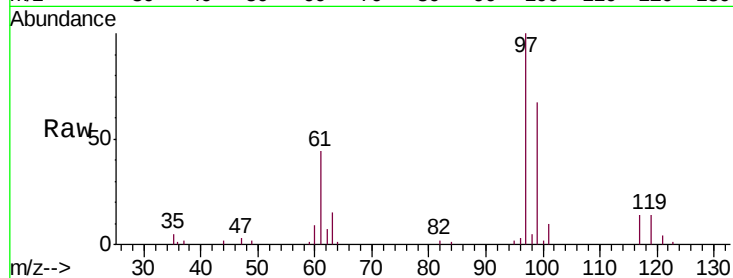
Tgt Ion: 97 Resp: 48982

Ion Ratio Lower Upper

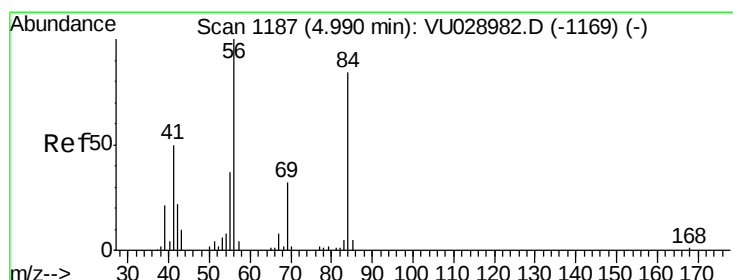
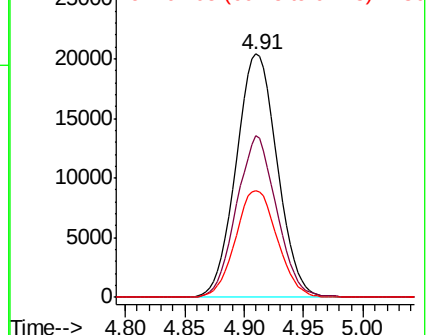
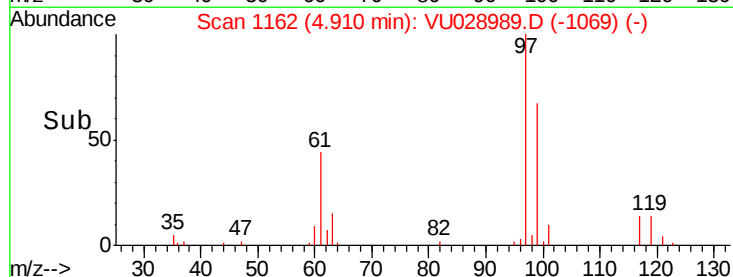
97 100

99 64.6 51.6 77.4

61 44.4 34.1 51.1



Abundance Ion 96.95 (96.65 to 97.65): VU028989.D (-1069) (-)



#30

Cyclohexane

Concen: 4.759 ug/L

RT: 4.99 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

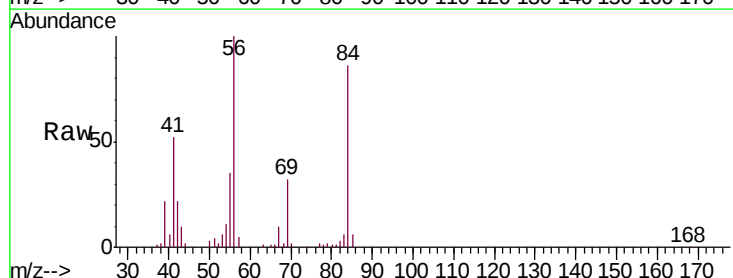
Tgt Ion: 56 Resp: 58236

Ion Ratio Lower Upper

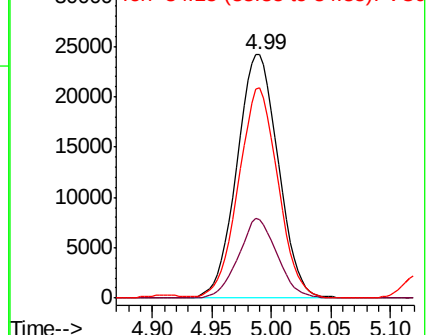
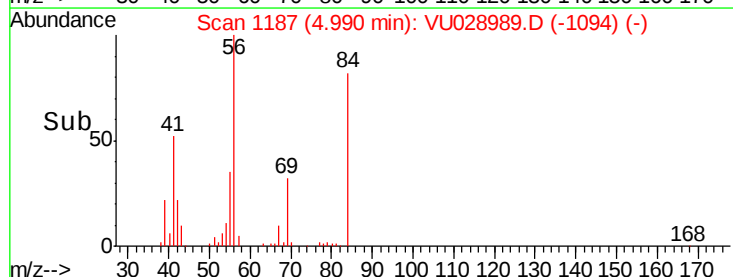
56 100

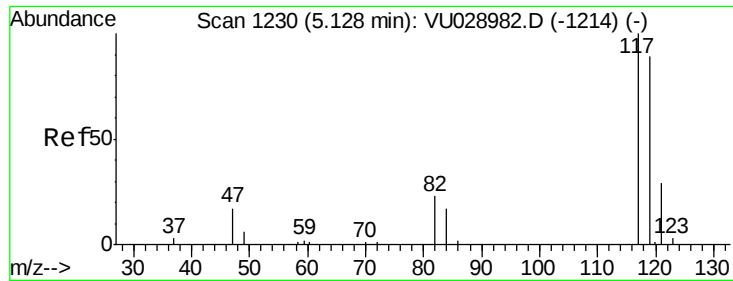
69 30.5 24.8 37.2

84 82.5 69.1 103.7



Abundance Ion 56.10 (55.80 to 56.80): VU028989.D (-1094) (-)





#31

Carbon tetrachloride

Concen: 4.843 ug/L

RT: 5.13 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

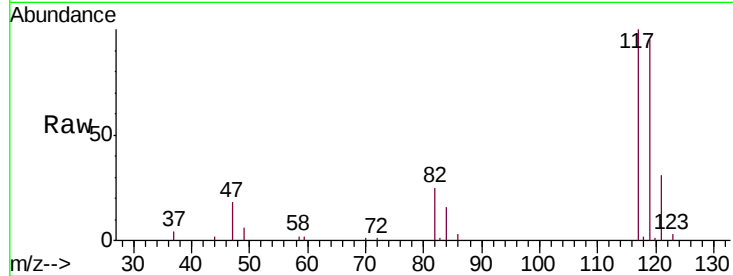
VSTD00552

Tgt Ion:117 Resp: 39390

Ion Ratio Lower Upper

117 100

119 95.9 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

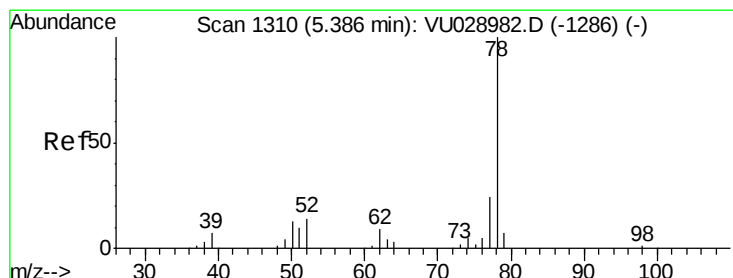
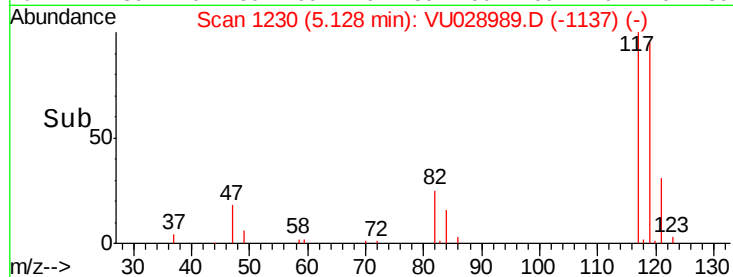
10000

5000

0

Time-->

5.05 5.10 5.15 5.20



#33

Benzene

Concen: 4.849 ug/L

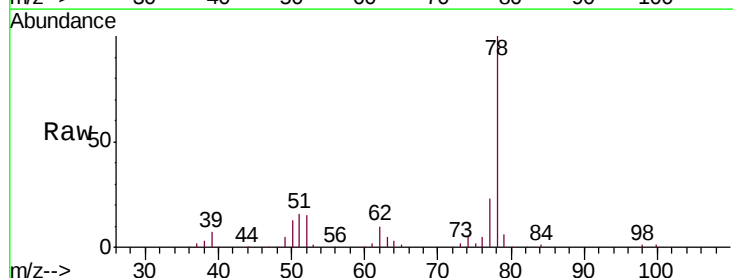
RT: 5.39 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Tgt Ion: 78 Resp: 144193



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.39

80000

60000

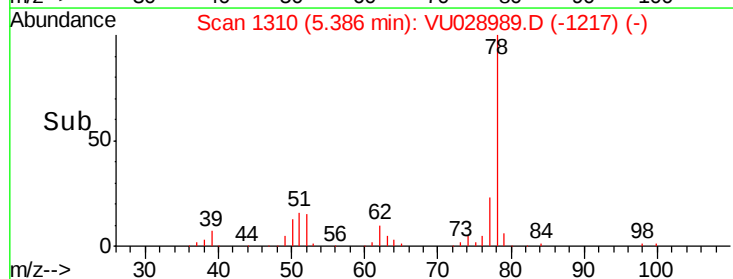
40000

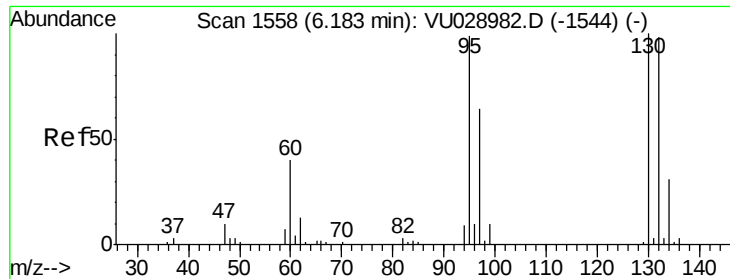
20000

0

Time-->

5.30 5.40 5.50

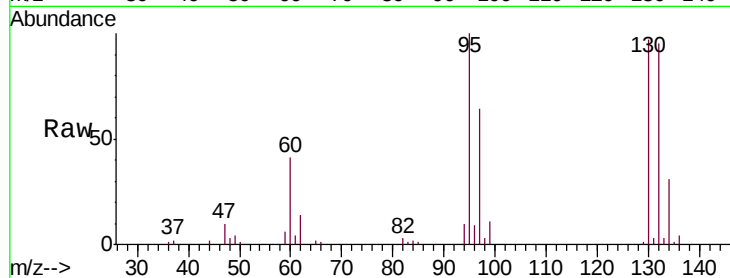




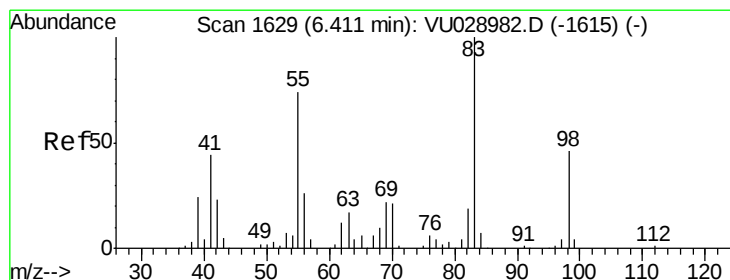
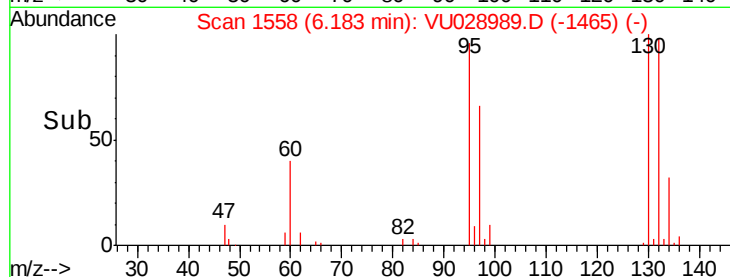
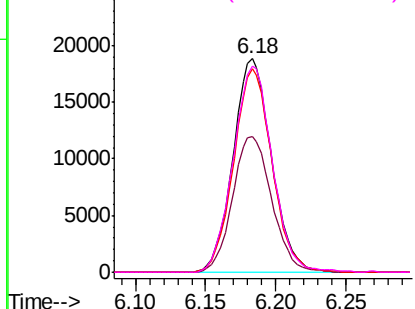
#34
 Trichloroethene
 Concen: 4.728 ug/L
 RT: 6.18 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: VU028989.D
 Acq: 02 Jan 2019 14:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

Tgt Ion: 95 Resp: 35952
 Ion Ratio Lower Upper
 95 100
 97 63.5 45.4 84.2
 132 95.0 70.8 131.6
 130 96.7 70.7 131.3

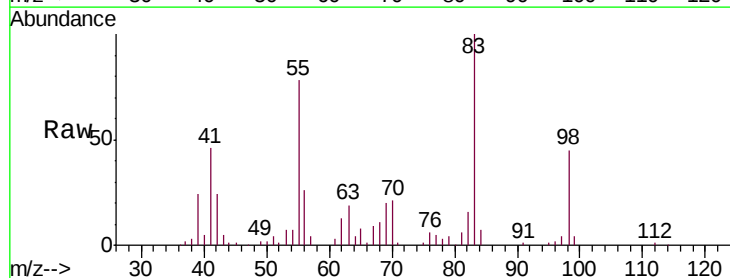


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

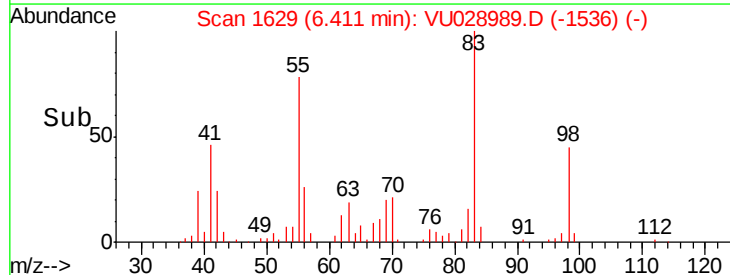
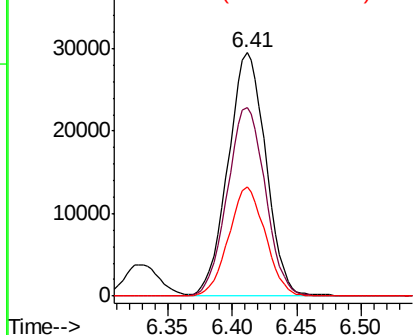


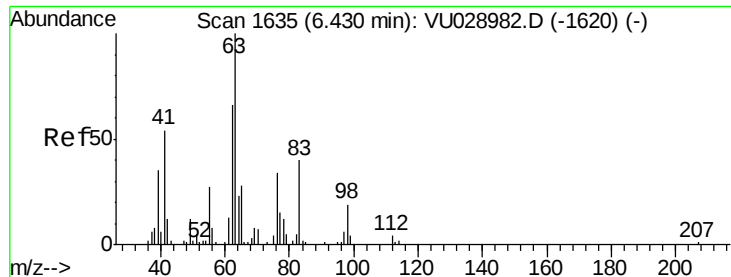
#35
 Methylcyclohexane
 Concen: 4.608 ug/L
 RT: 6.41 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VU028989.D
 Acq: 02 Jan 2019 14:51

Tgt Ion: 83 Resp: 60180
 Ion Ratio Lower Upper
 83 100
 55 77.9 59.8 89.6
 98 43.3 37.0 55.6



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.226 ug/L

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

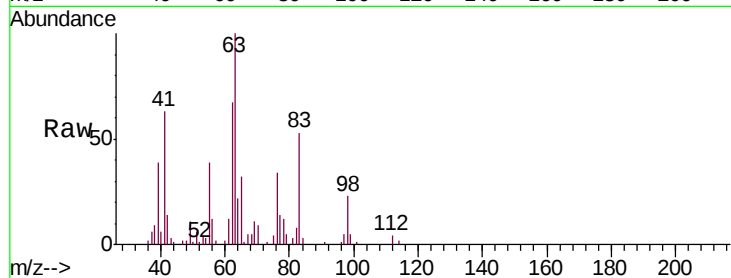
VSTD00552

Tgt Ion: 63 Resp: 39592

Ion Ratio Lower Upper

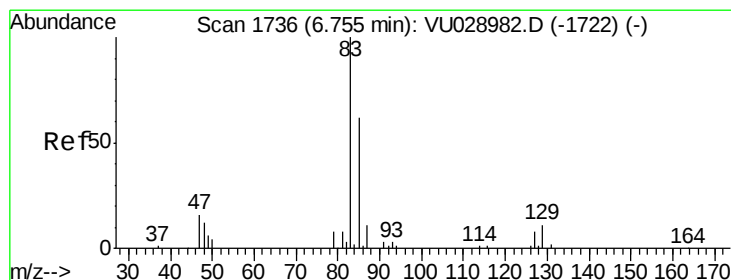
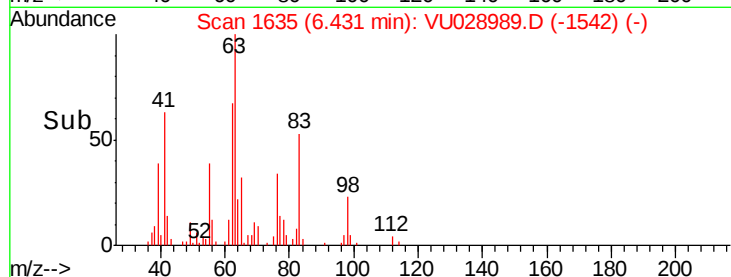
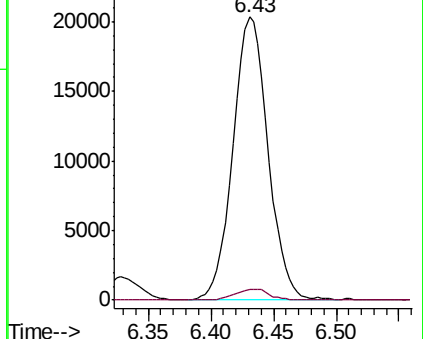
63 100

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: 4.962 ug/L

RT: 6.76 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

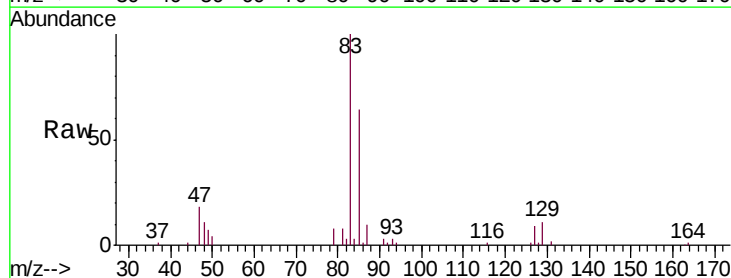
Tgt Ion: 83 Resp: 42320

Ion Ratio Lower Upper

83 100

85 64.3 45.1 83.9

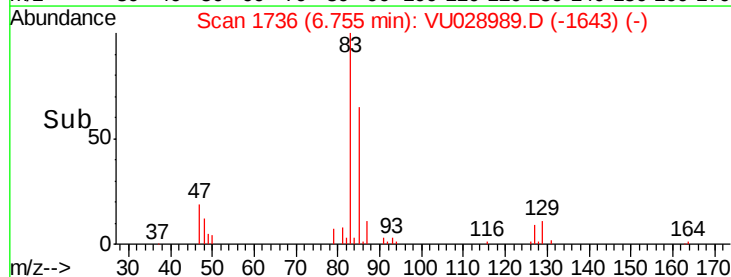
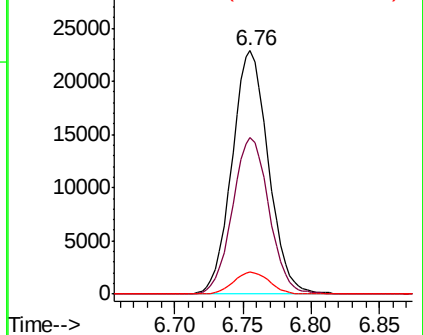
127 8.9 6.8 10.2

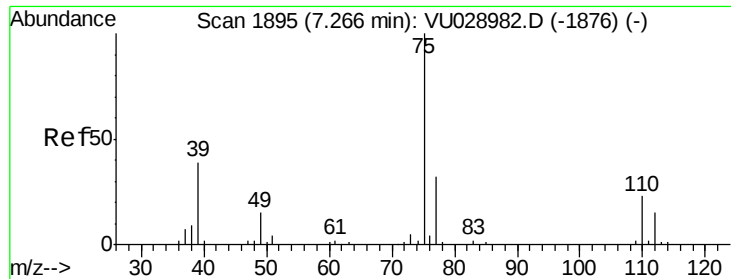


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V

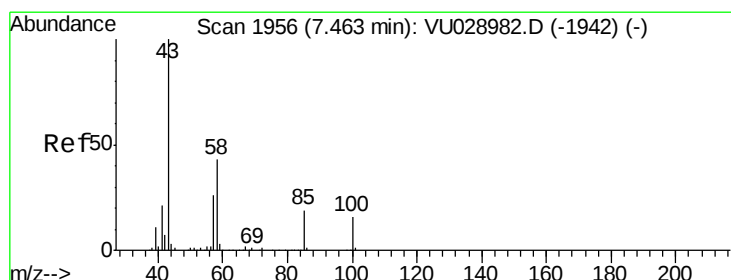
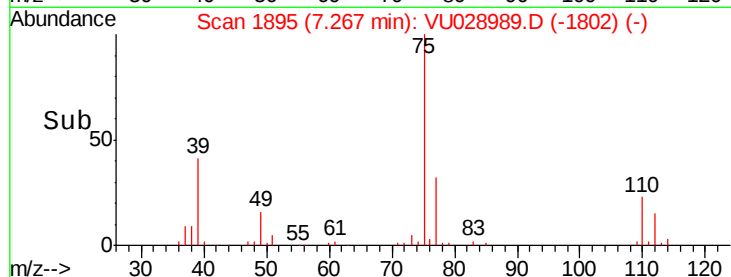
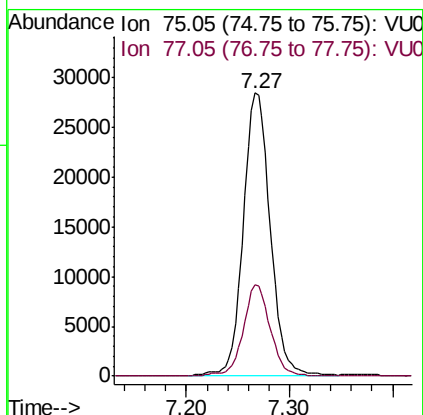
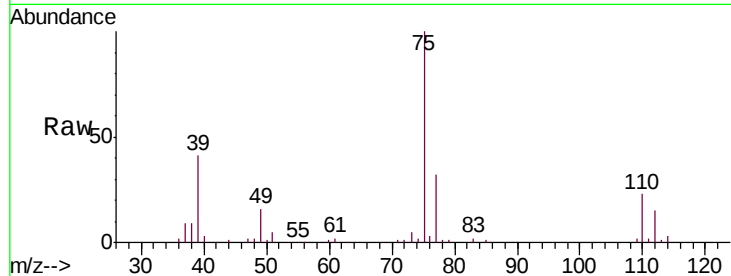




#39
 cis-1,3-Dichloropropene
 Concen: 4.775 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. 0.00 min
 Lab File: VU028989.D
 Acq: 02 Jan 2019 14:51

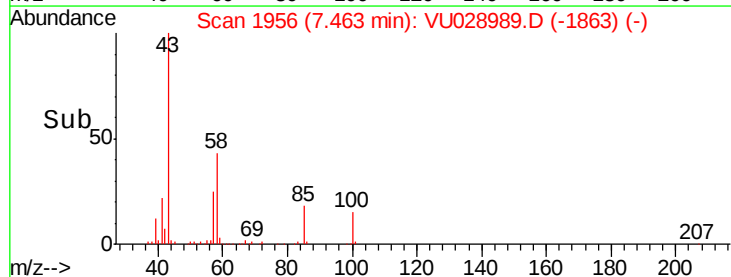
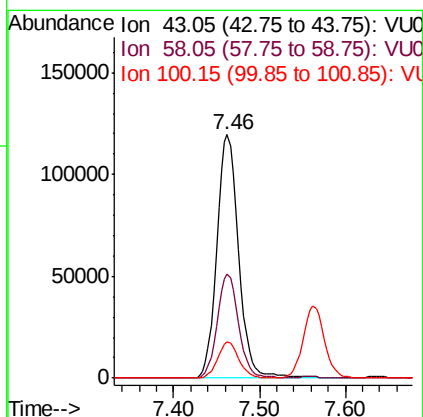
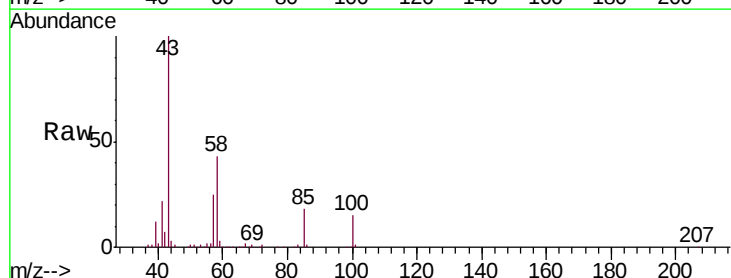
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

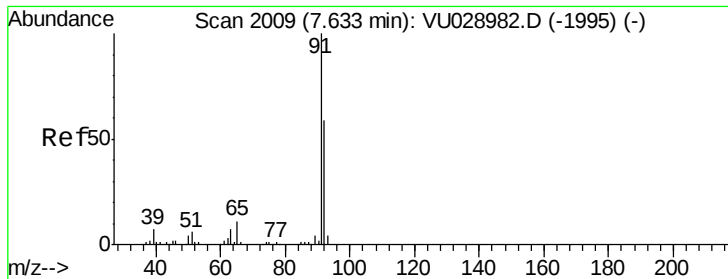
Tgt Ion: 75 Resp: 51874
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.5 39.9



#40
 4-Methyl-2-pentanone
 Concen: 52.446 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VU028989.D
 Acq: 02 Jan 2019 14:51

Tgt Ion: 43 Resp: 211419
 Ion Ratio Lower Upper
 43 100
 58 41.7 34.6 51.8
 100 14.4 13.4 20.0





#42

Toluene

Concen: 4.771 ug/L

RT: 7.63 min Scan# 2009

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

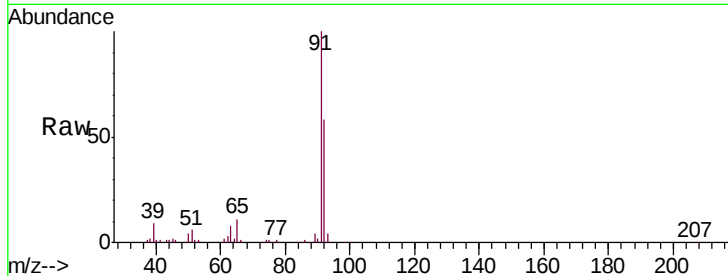
VSTD00552

Tgt Ion: 91 Resp: 151886

Ion Ratio Lower Upper

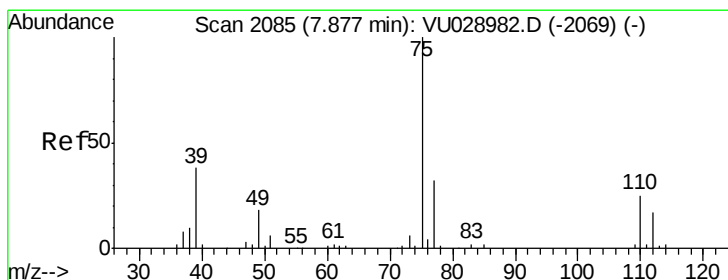
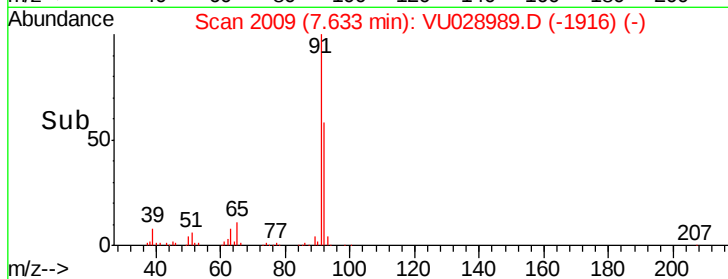
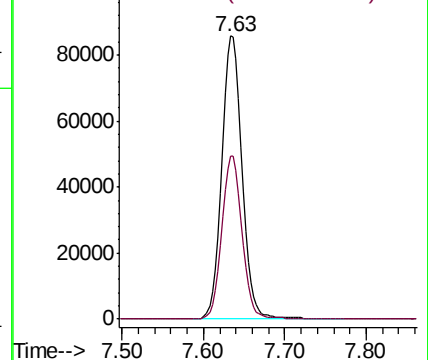
91 100

92 57.5 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: 4.885 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU028989.D

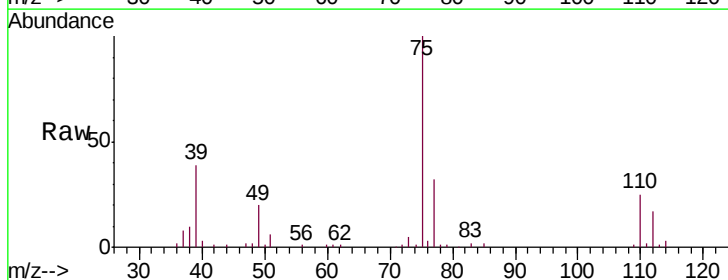
Acq: 02 Jan 2019 14:51

Tgt Ion: 75 Resp: 41353

Ion Ratio Lower Upper

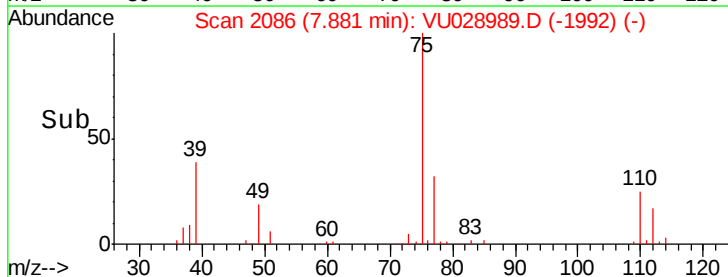
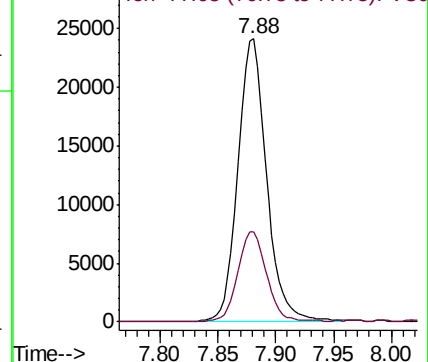
75 100

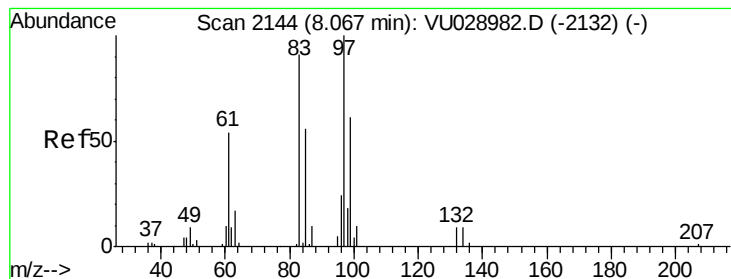
77 31.9 21.6 40.0



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: 4.958 ug/L

RT: 8.07 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

Tgt Ion: 97 Resp: 25564

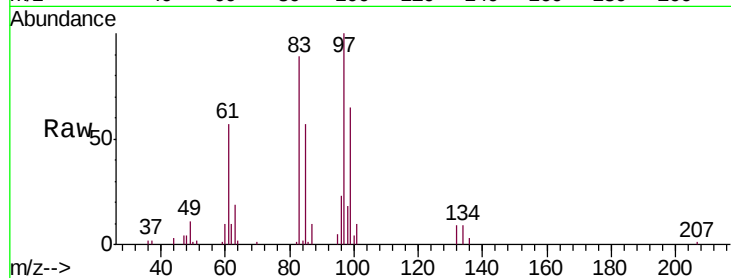
Ion Ratio Lower Upper

97 100

99 65.3 42.4 78.6

83 88.7 59.6 110.6

85 56.6 39.0 72.4

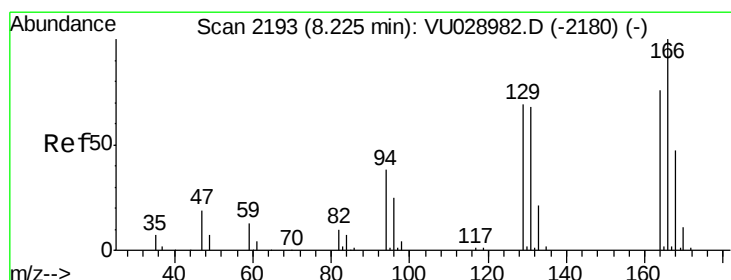
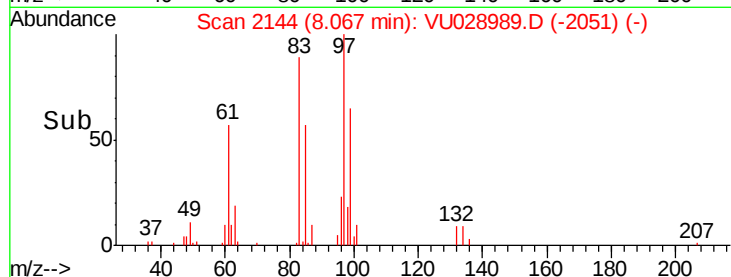
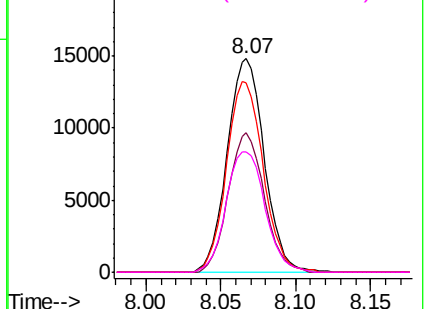


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 4.672 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Tgt Ion: 164 Resp: 29422

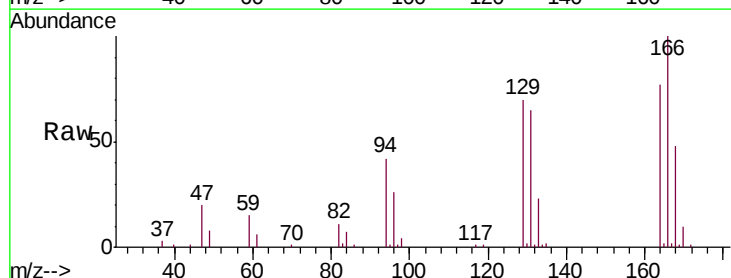
Ion Ratio Lower Upper

164 100

129 91.8 65.3 121.3

131 85.2 62.9 116.7

166 130.7 86.7 160.9

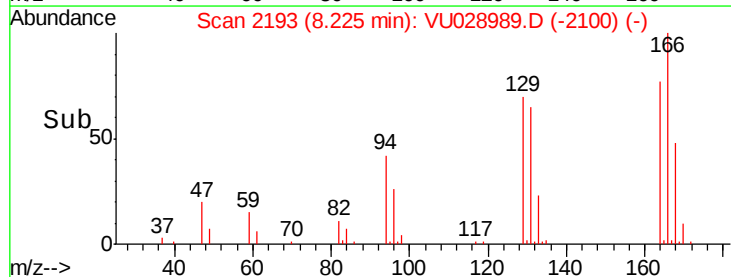
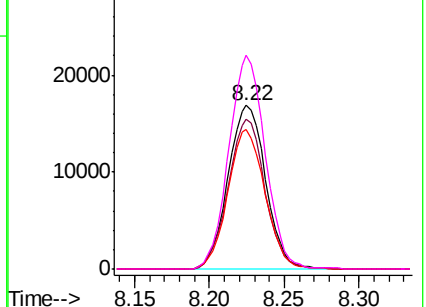


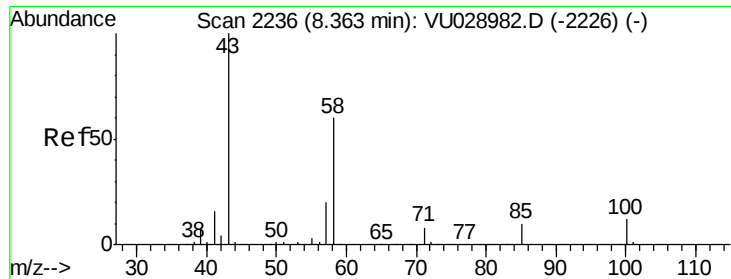
Abundance Ion 163.90 (163.60 to 164.60): V

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

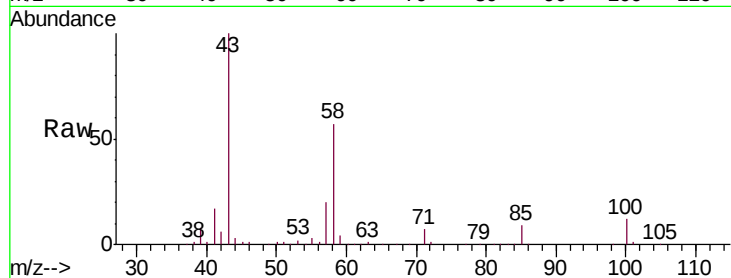




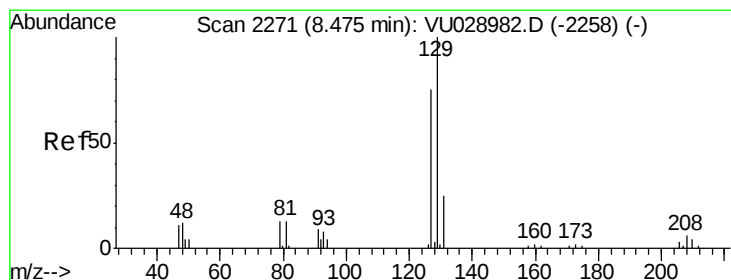
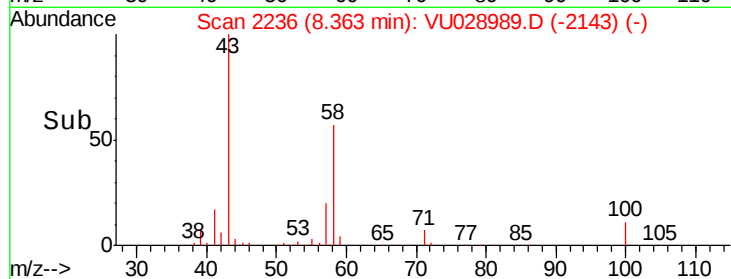
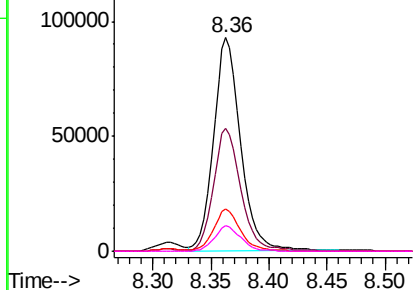
#48
2-Hexanone
Concen: 54.157 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tgt Ion: 43 Resp: 151016
Ion Ratio Lower Upper
43 100
58 57.7 48.8 73.2
57 19.3 16.0 24.0
100 11.8 10.2 15.4

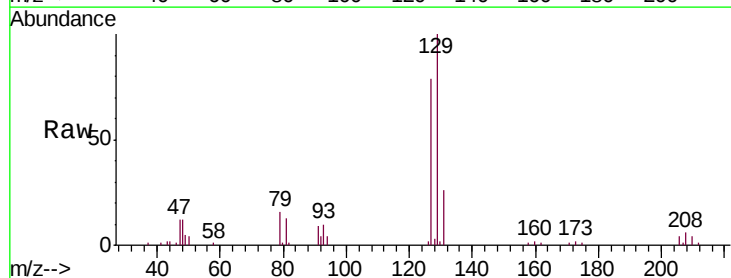


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

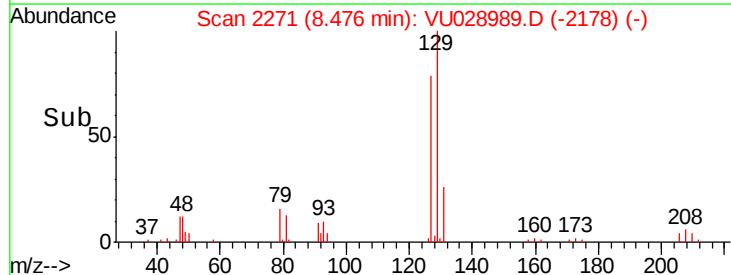
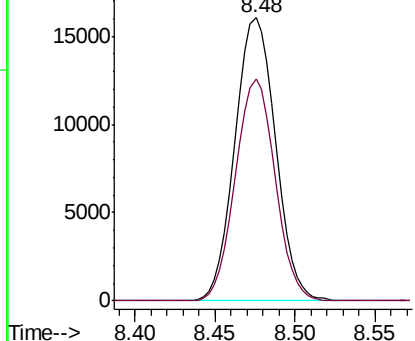


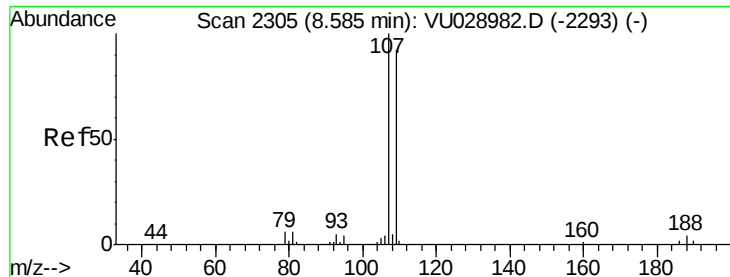
#49
Dibromochloromethane
Concen: 5.096 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Tgt Ion: 129 Resp: 27893
Ion Ratio Lower Upper
129 100
127 78.5 54.4 101.0



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

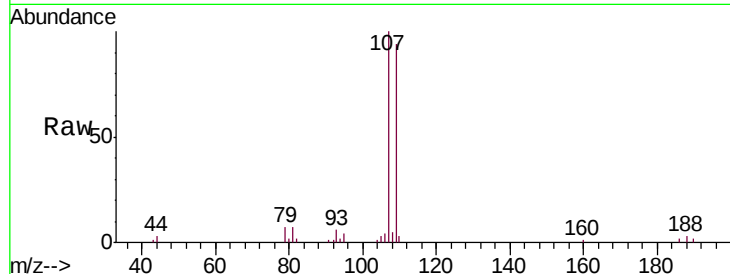




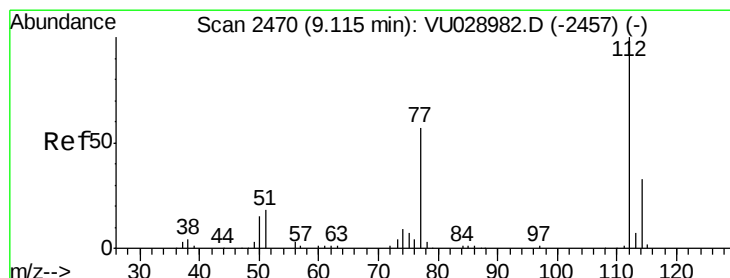
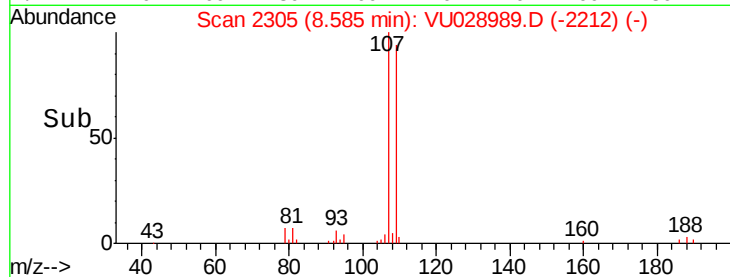
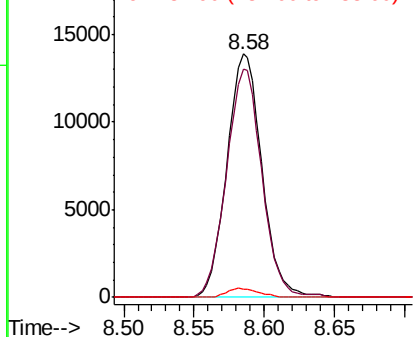
#50
1,2-Dibromoethane
Concen: 4.992 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tgt Ion:107 Resp: 24073
Ion Ratio Lower Upper
107 100
109 93.9 64.0 119.0
188 3.5 3.0 4.4

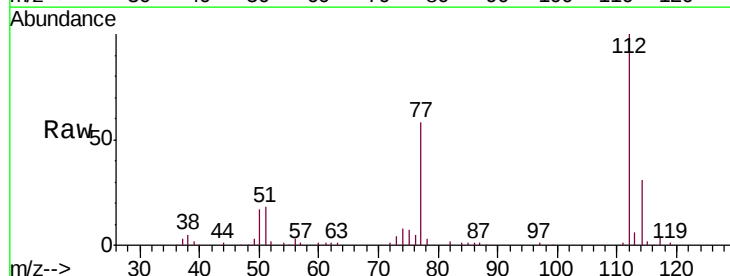


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

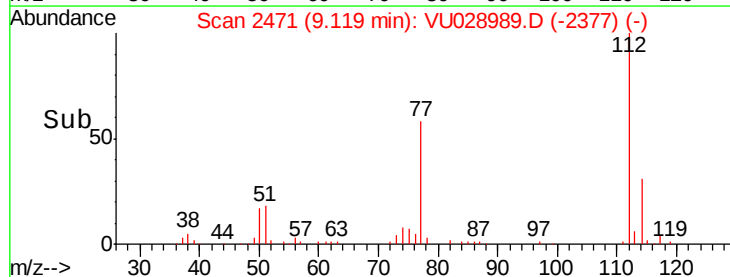
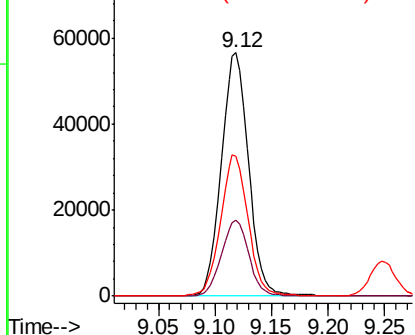


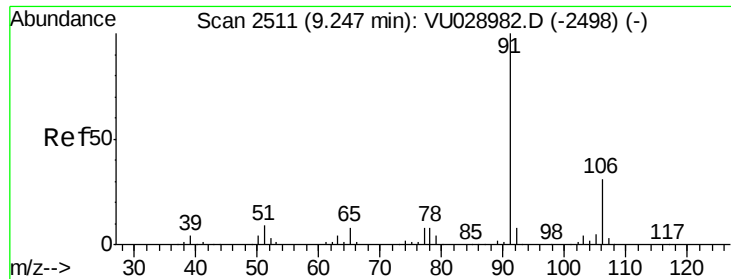
#51
Chlorobenzene
Concen: 4.750 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Tgt Ion:112 Resp: 94837
Ion Ratio Lower Upper
112 100
114 31.1 22.2 41.2
77 57.7 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: 4.652 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

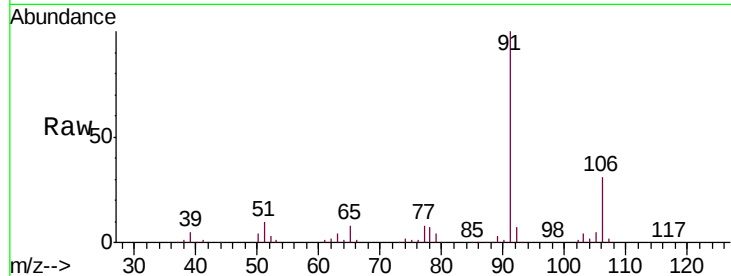
VSTD00552

Tgt Ion: 91 Resp: 157085

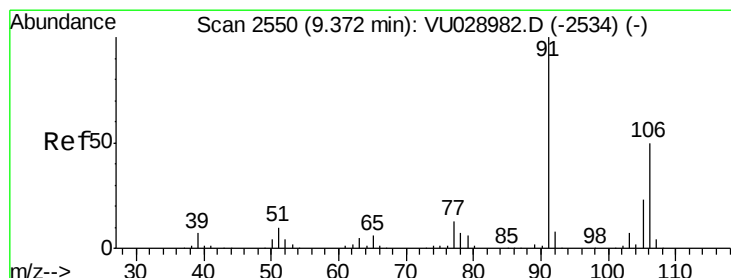
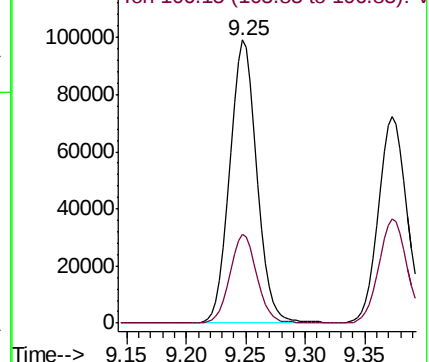
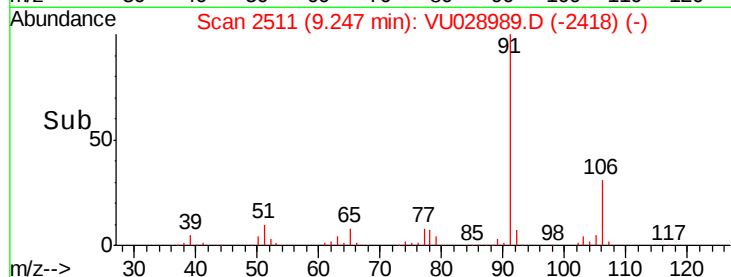
Ion Ratio Lower Upper

91 100

106 31.4 22.7 42.1



Abundance Ion 91.15 (90.85 to 91.85): VU028989.D (-2418) (-)



#53

m,p-xylene

Concen: 4.705 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028989.D

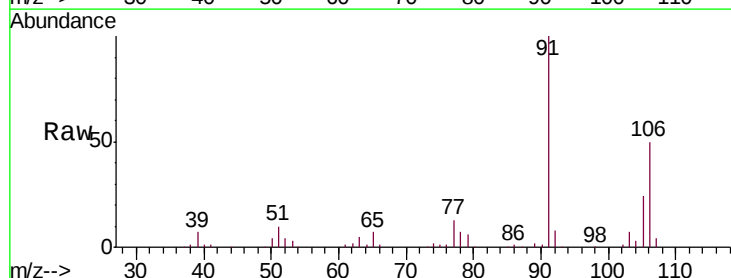
Acq: 02 Jan 2019 14:51

Tgt Ion: 106 Resp: 60459

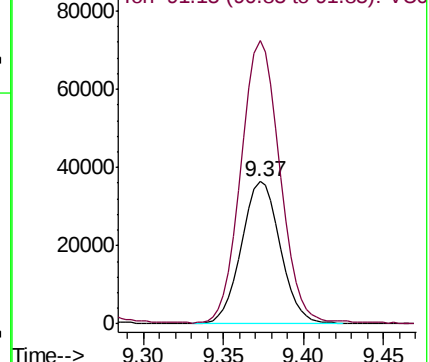
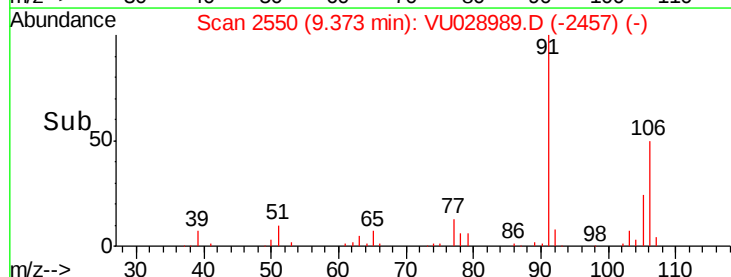
Ion Ratio Lower Upper

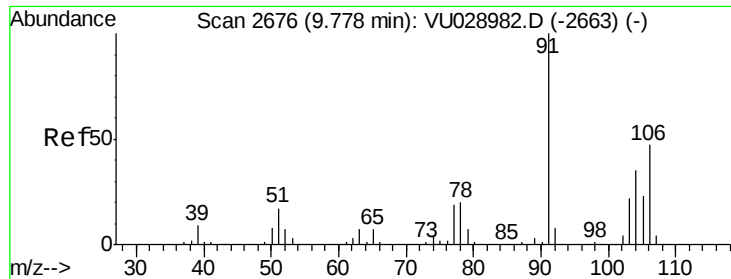
106 100

91 198.7 138.5 257.1



Abundance Ion 106.15 (105.85 to 106.85): VU028989.D (-2457) (-)

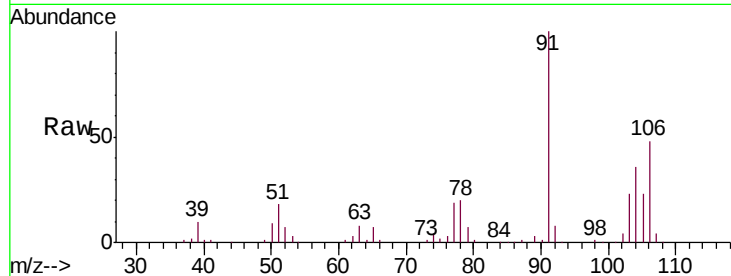




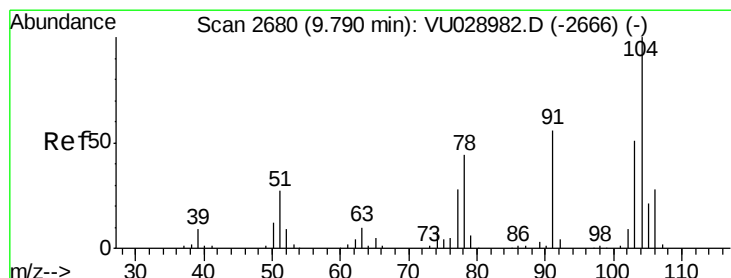
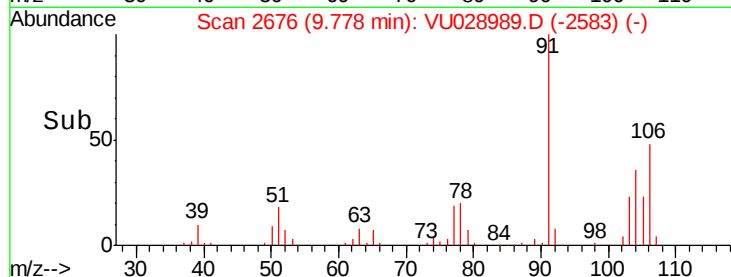
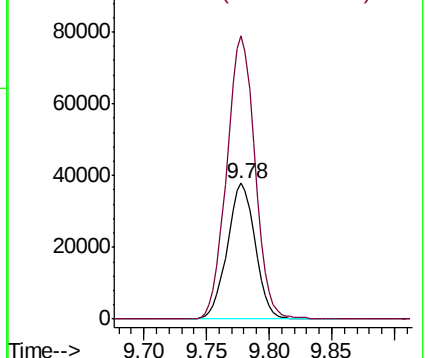
#54
o-xylene
Concen: 4.711 ug/L
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tgt Ion:106 Resp: 58768
Ion Ratio Lower Upper
106 100
91 208.1 146.5 272.1

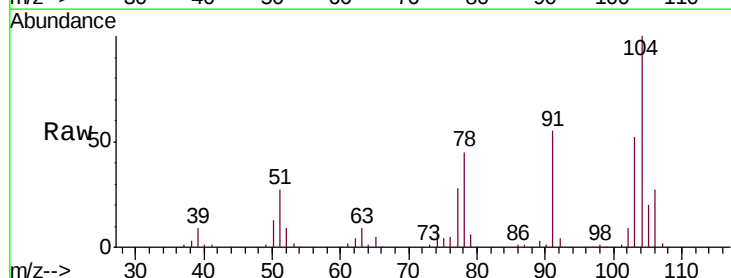


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

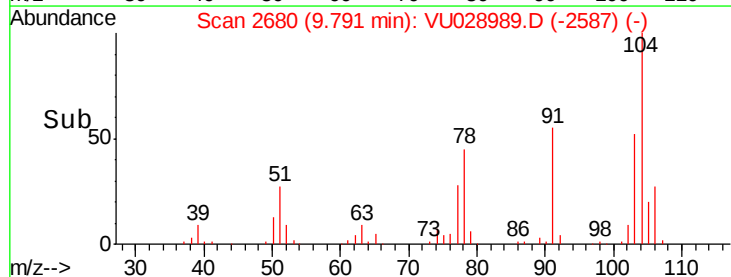
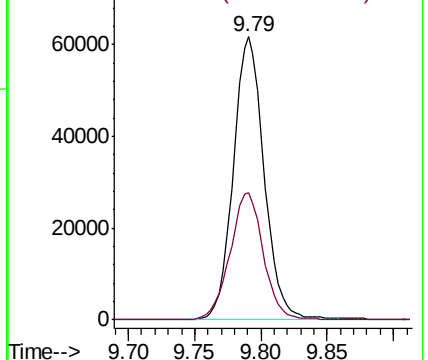


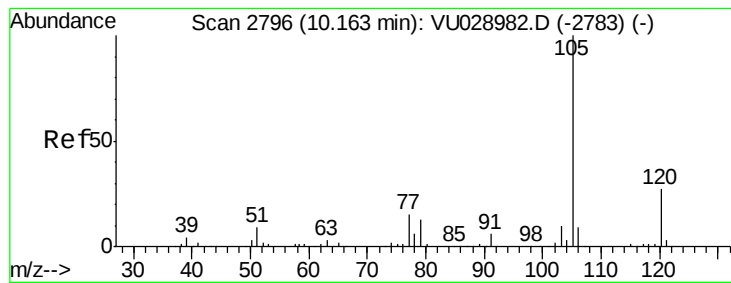
#55
Styrene
Concen: 4.785 ug/L
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028989.D
Acq: 02 Jan 2019 14:51

Tgt Ion:104 Resp: 99348
Ion Ratio Lower Upper
104 100
78 44.9 30.9 57.5



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.554 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

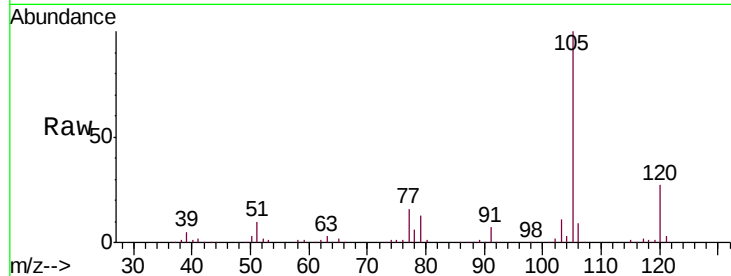
Tgt Ion: 105 Resp: 149816

Ion Ratio Lower Upper

105 100

120 27.0 20.9 31.3

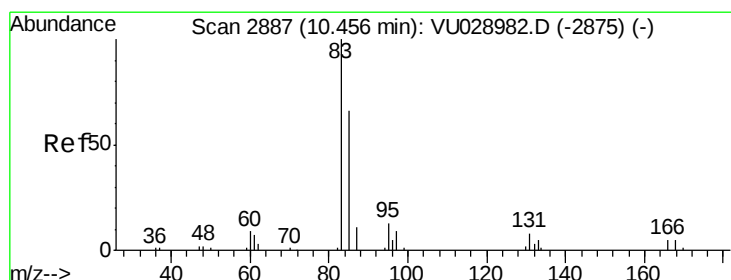
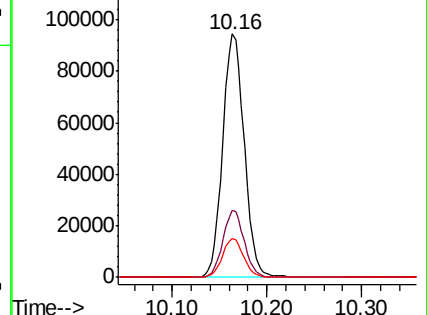
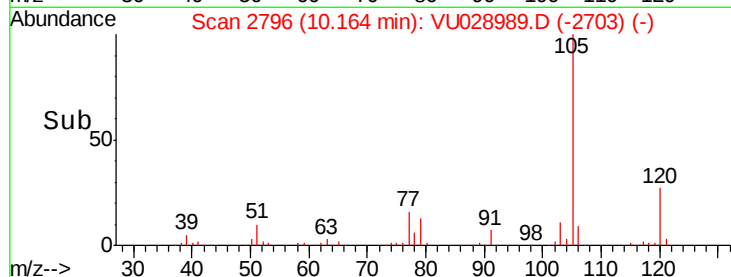
77 15.6 12.0 18.0



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: 5.274 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

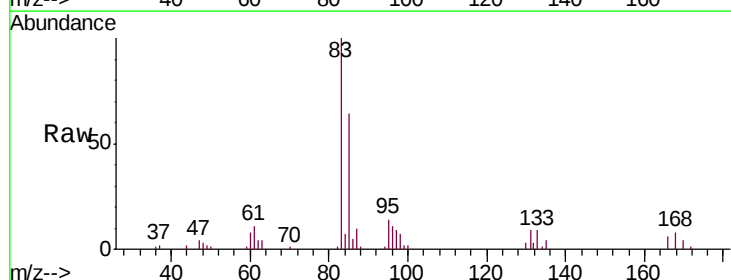
Tgt Ion: 83 Resp: 33290

Ion Ratio Lower Upper

83 100

85 64.4 44.0 81.8

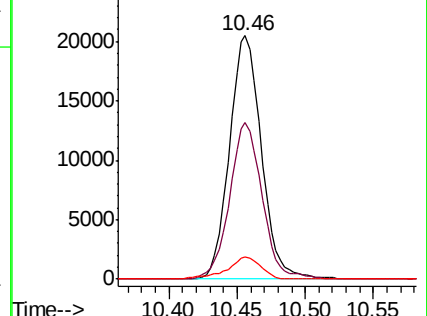
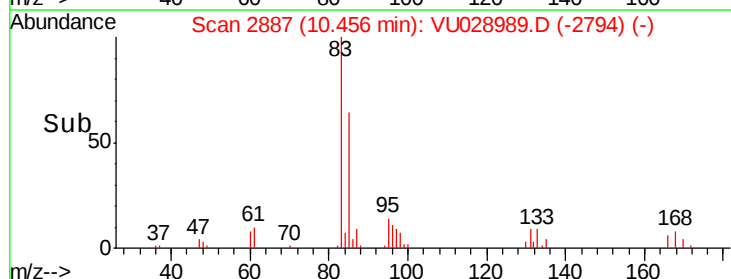
131 9.0 7.8 11.8

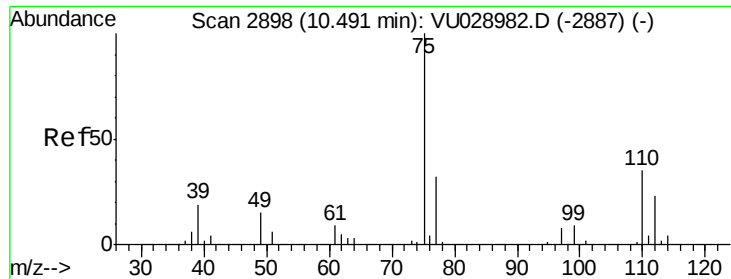


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.191 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

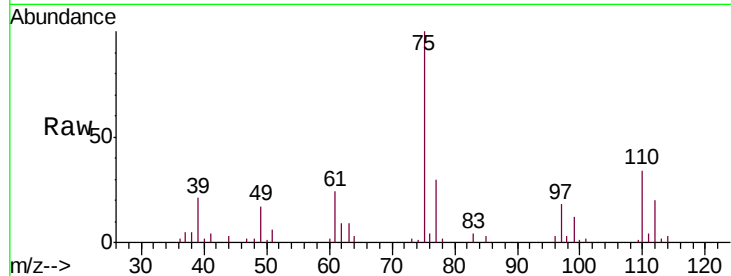
VSTD00552

Tgt Ion: 75 Resp: 22926

Ion Ratio Lower Upper

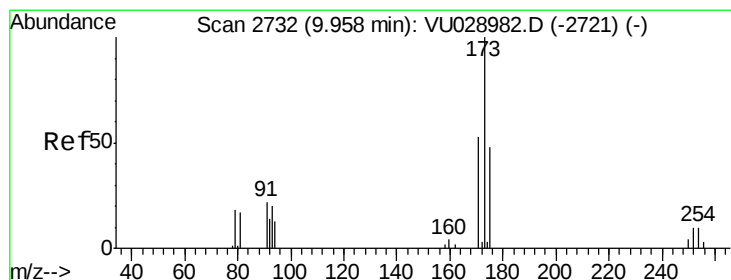
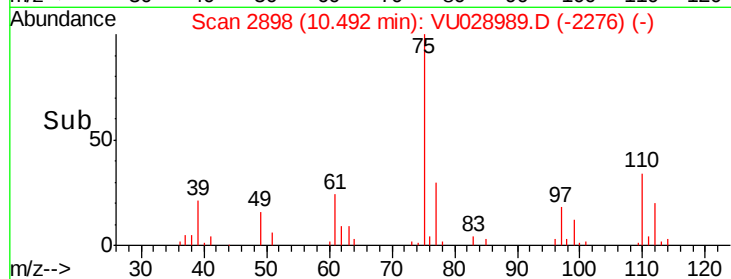
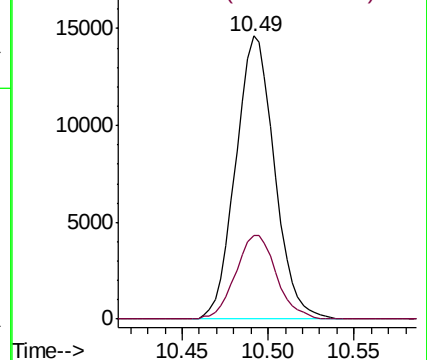
75 100

77 31.2 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 5.291 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

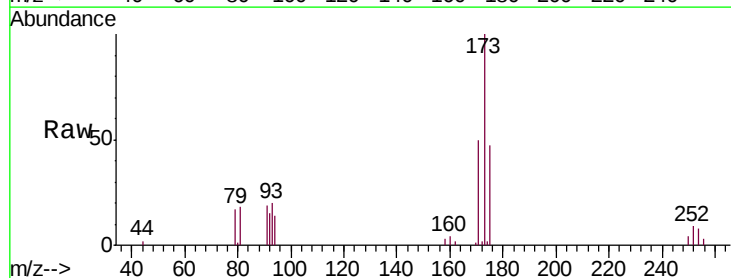
Tgt Ion: 173 Resp: 16584

Ion Ratio Lower Upper

173 100

175 46.6 35.4 53.2

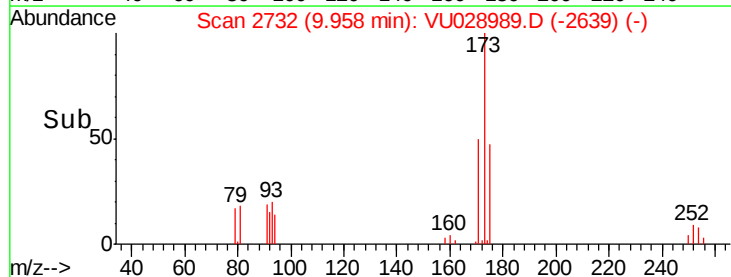
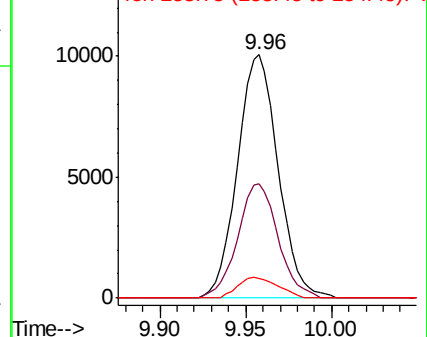
254 8.4 7.5 11.3

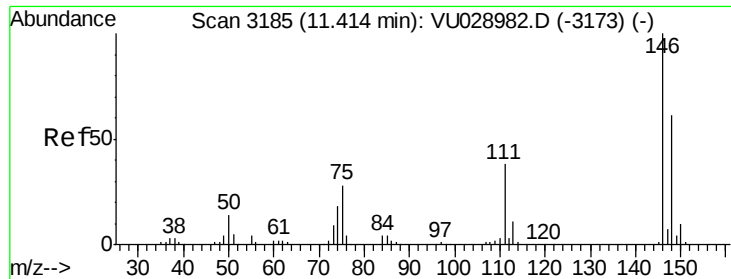


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 4.674 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

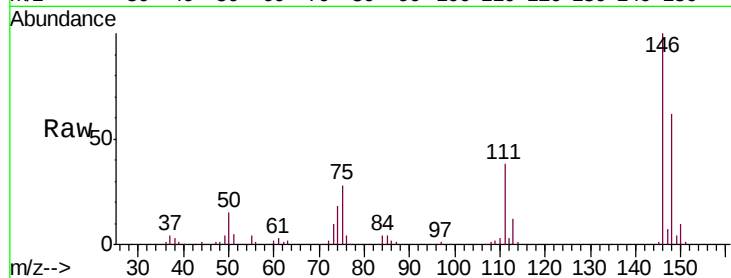
Tgt Ion:146 Resp: 72576

Ion Ratio Lower Upper

146 100

111 37.7 27.7 51.5

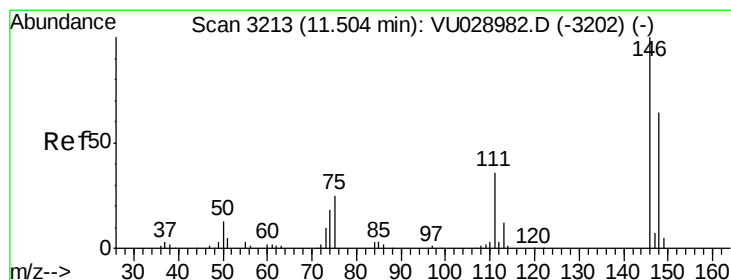
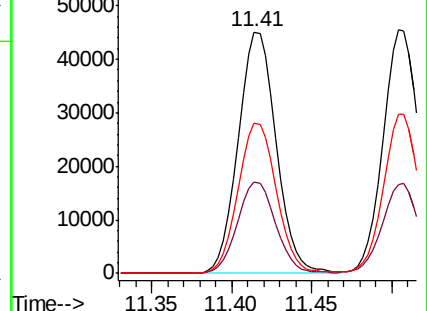
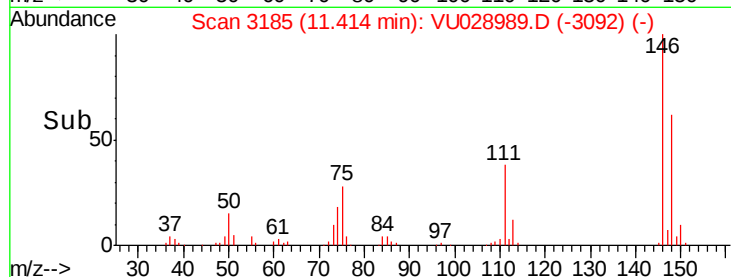
148 62.1 44.9 83.5



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



#63

1,4-Dichlorobenzene

Concen: 4.598 ug/L

RT: 11.50 min Scan# 3213

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

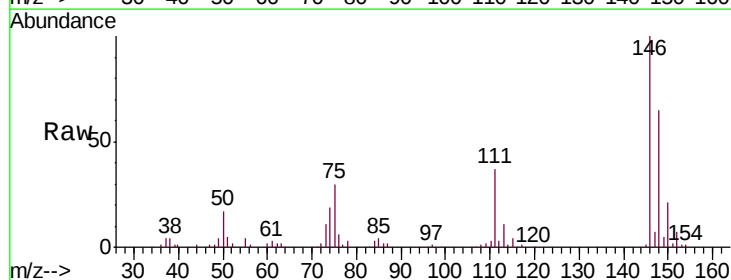
Tgt Ion:146 Resp: 72857

Ion Ratio Lower Upper

146 100

111 36.7 24.9 46.3

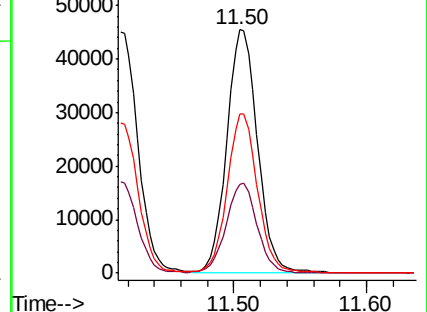
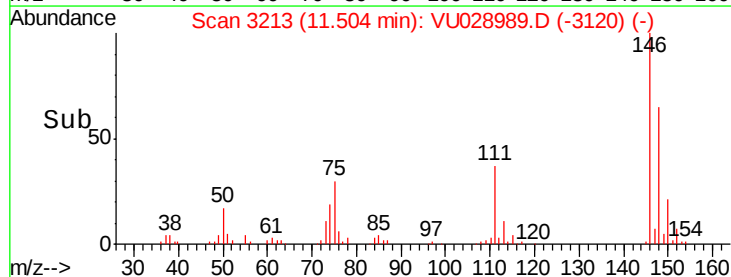
148 65.4 44.9 83.3

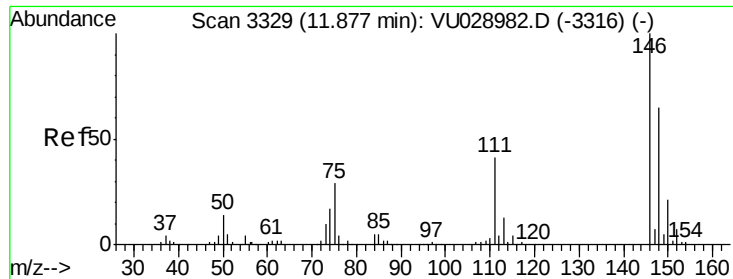


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.730 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

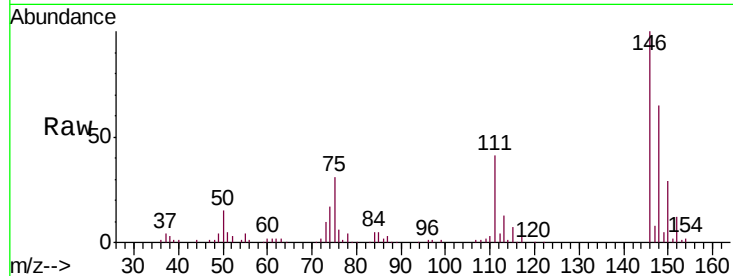
Tgt Ion:146 Resp: 69499

Ion Ratio Lower Upper

146 100

111 41.1 32.2 48.4

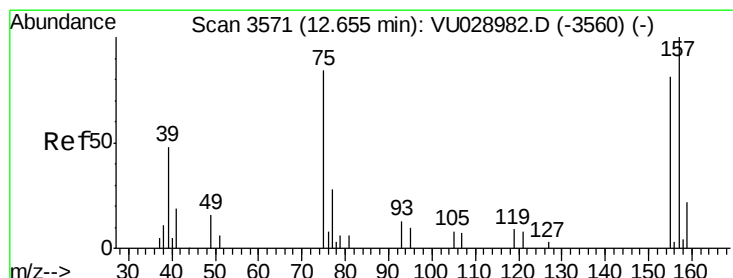
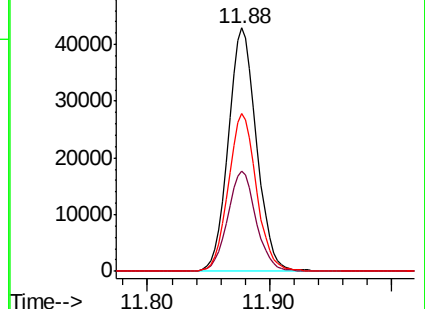
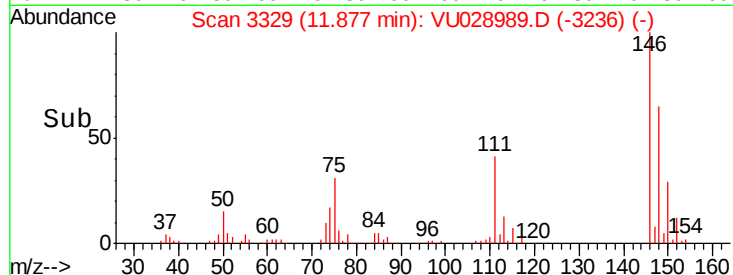
148 64.7 53.2 79.8



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: 5.144 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

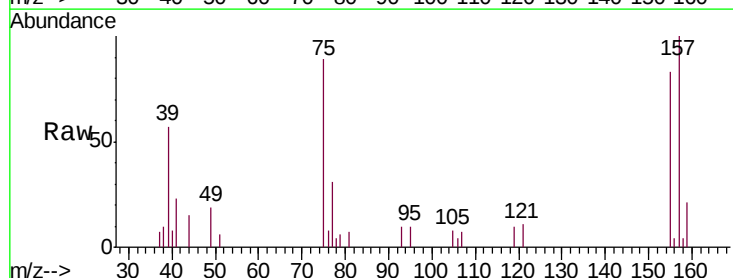
Tgt Ion: 75 Resp: 4463

Ion Ratio Lower Upper

75 100

155 92.9 72.2 108.2

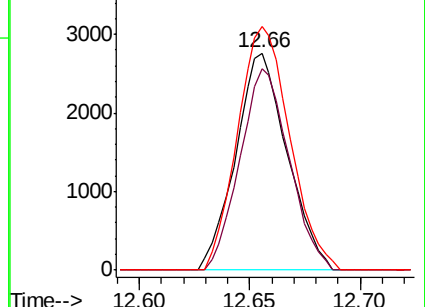
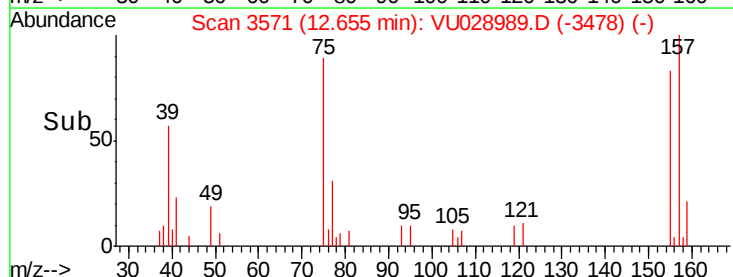
157 112.2 93.0 139.6

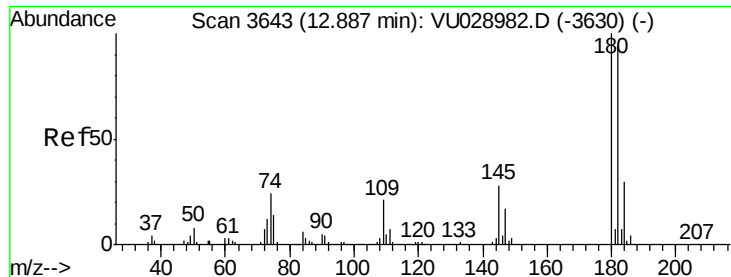


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

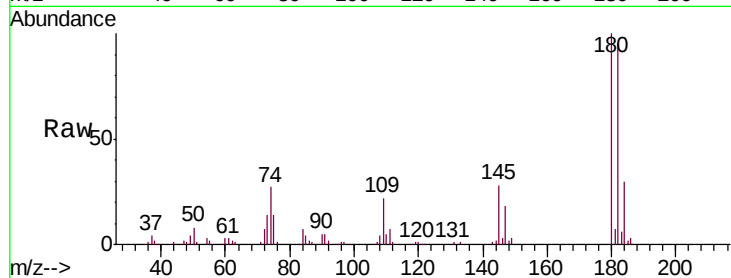




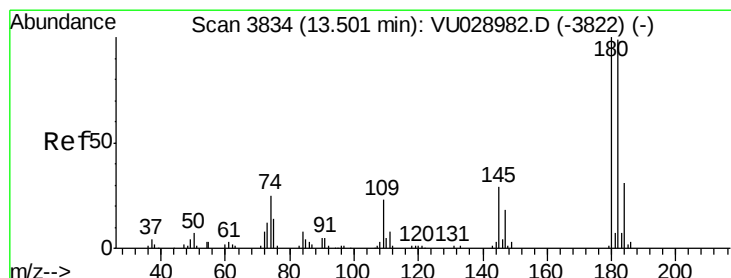
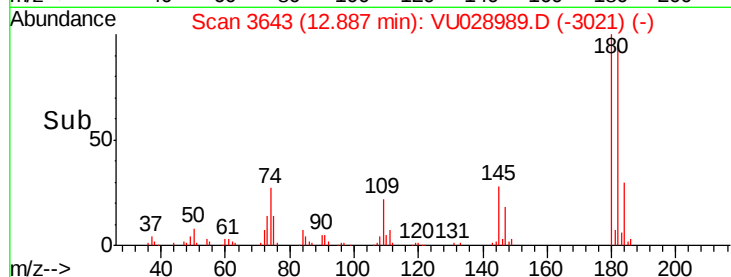
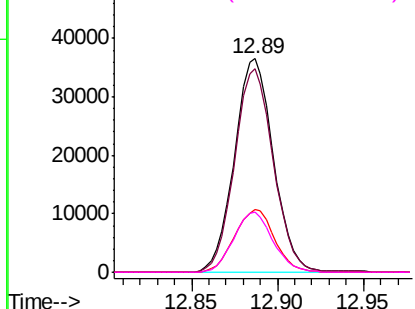
#67
 1,3,5-Trichlorobenzene
 Concen: 4.772 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028989.D
 Acq: 02 Jan 2019 14:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

Tgt Ion:180 Resp: 57333
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.6 114.8
 184 30.2 24.4 36.6
 145 28.3 21.7 32.5

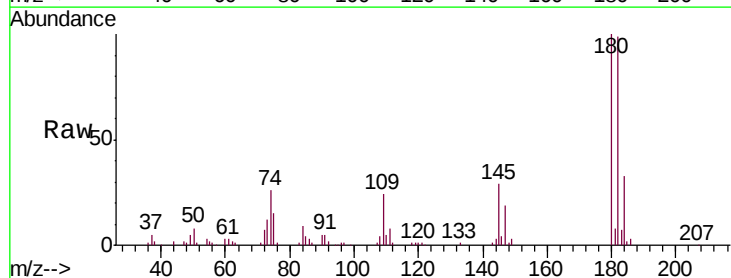


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

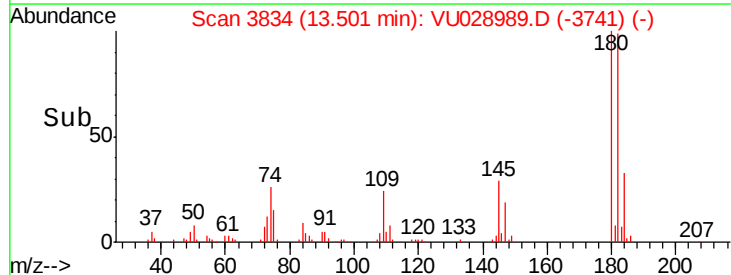
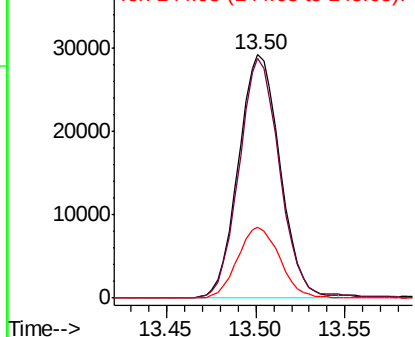


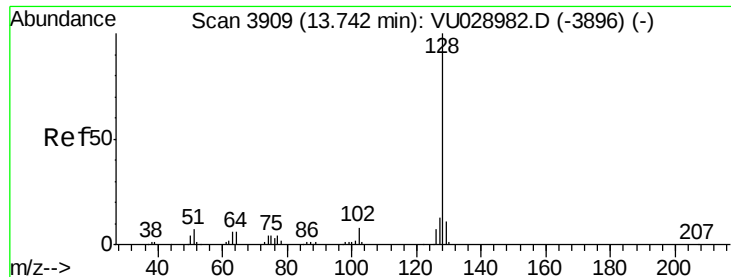
#68
 1,2,4-trichlorobenzene
 Concen: 4.744 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028989.D
 Acq: 02 Jan 2019 14:51

Tgt Ion:180 Resp: 47501
 Ion Ratio Lower Upper
 180 100
 182 96.8 76.0 114.0
 145 29.5 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: 4.698 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

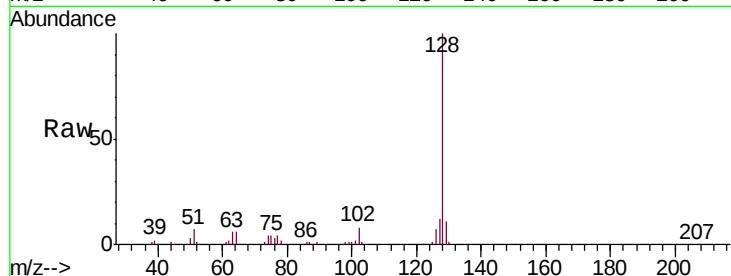
Tgt Ion:128 Resp: 80465

Ion Ratio Lower Upper

128 100

129 10.4 8.3 12.5

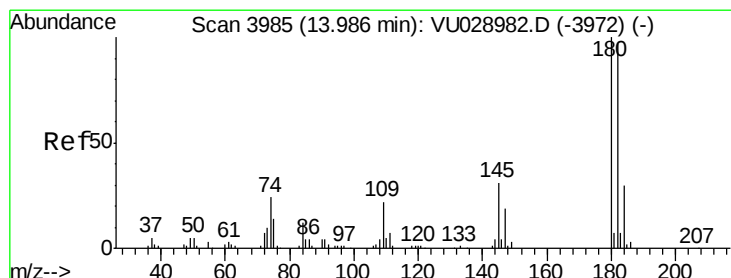
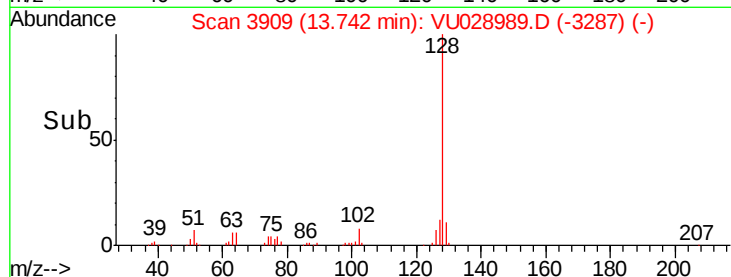
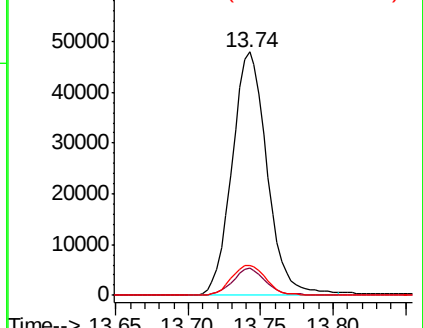
127 12.2 9.8 14.6



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: 4.708 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028989.D

Acq: 02 Jan 2019 14:51

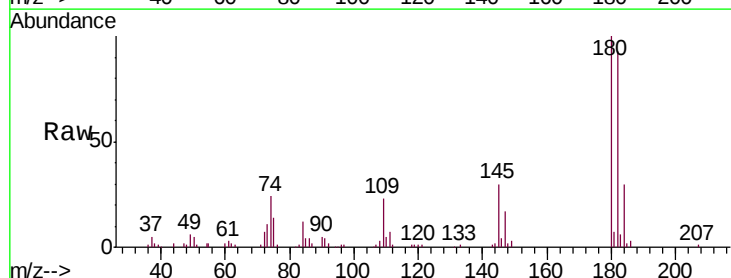
Tgt Ion:180 Resp: 44968

Ion Ratio Lower Upper

180 100

182 95.0 77.1 115.7

145 29.8 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

