

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082918\
 Data File : VU026433.D
 Acq On : 29 Aug 2018 19:47
 Operator : MD/SY
 Sample : J4691-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 30 02:24:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 30 02:20:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	155970	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.10	117	182896	50.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	11.49	152	96600	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	42622	44.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.22%
7) Chloroethane-d5	1.68	69	39448	45.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.40%
11) 1,1-Dichloroethene-d2	2.27	63	69305	31.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	63.70%
21) 2-Butanone-d5	4.18	46	69988	93.31	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.31%
24) Chloroform-d	4.65	84	81153	44.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.92%
26) 1,2-Dichloroethane-d4	5.31	65	54805	45.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.20%
32) Benzene-d6	5.34	84	166185	39.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.84%
36) 1,2-Dichloropropane-d6	6.34	67	56491	39.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	78.02%
41) Toluene-d8	7.58	98	168946	41.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.04%
43) trans-1,3-Dichloropropene-	7.85	79	26612	40.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.48%
47) 2-Hexanone-d5	8.28	63	465	0.70	ug/L	-0.03
Spiked Amount	100.000	Range	45 - 130	Recovery	=	0.70%#
57) 1,1,2,2-Tetrachloroethane-	10.44	84	92327	43.27	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.54%
64) 1,2-Dichlorobenzene-d4	11.86	152	80882	46.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.30%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	6164	3.786	ug/L #	71
8) Chloroethane	1.40	64	3947	4.038	ug/L	91
13) Acetone	2.32	43	5782	8.903	ug/L	99
17) trans-1,2-Dichloroethene	2.99	96	6945	6.897	ug/L	92
20) cis-1,2-Dichloroethene	4.23	96	378594	335.608	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	2438	1.211	ug/L	96
34) Trichloroethene	6.20	95	6391328	4859.560	ug/L	99
37) 1,2-Dichloropropane	6.34	63	5987	4.124	ug/L #	88
48) 2-Hexanone	8.37	43	2221	1.441	ug/L #	40
51) Chlorobenzene	9.13	112	4990	1.364	ug/L	94
52) Ethylbenzene	9.26	91	7945	1.335	ug/L	98
53) m,p-Xylene	9.38	106	11860	5.338	ug/L	90
54) o-xylene	9.79	106	7305	3.371	ug/L	95
56) Isopropylbenzene	10.17	105	7738	1.364	ug/L	97
59) 1,2,3-Trichloropropane	11.49	75	12683	7.002	ug/L	95
65) 1,2-Dichlorobenzene	11.88	146	19854	6.659	ug/L	97
67) 1,3,5-Trichlorobenzene	12.89	180	3062	1.342	ug/L	94

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QLast Update : Thu Aug 30 02:20:47 2018
Response via : Initial Calibration

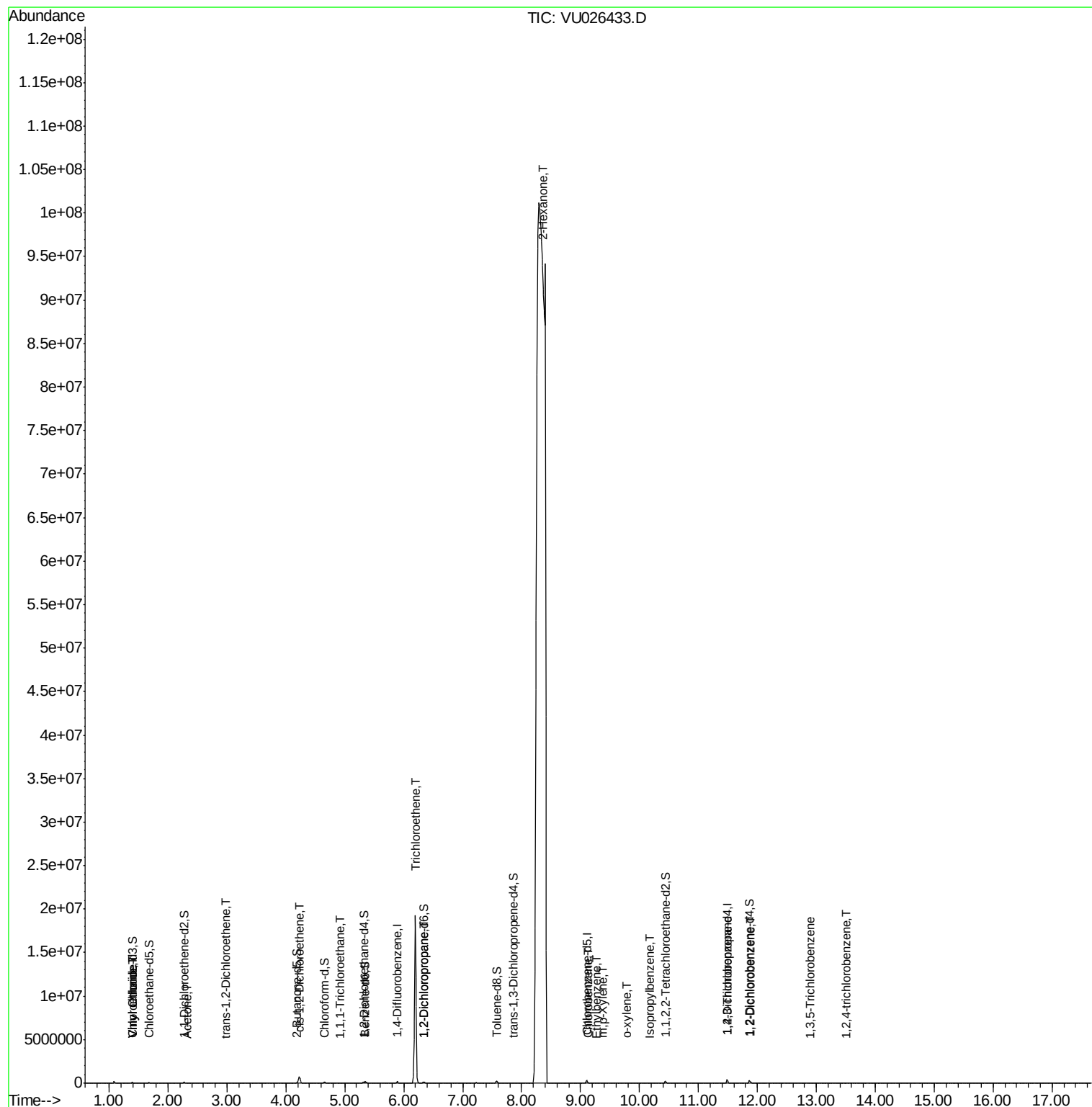
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.51	180	3582	1.798	ug/L	98

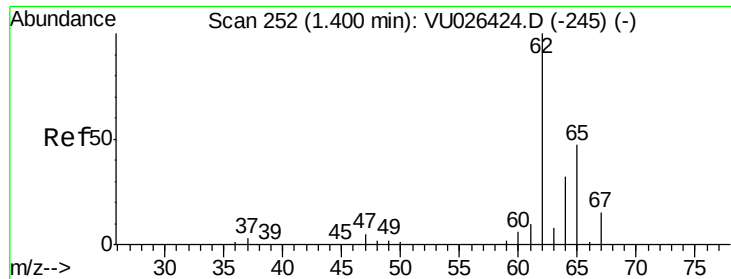
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 3.786 ug/L

RT: 1.40 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

Instrument :

MSVOA_U

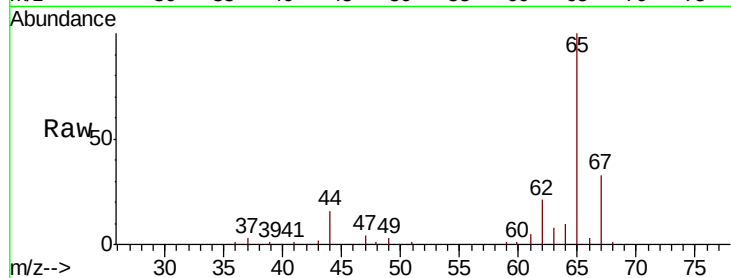
ClientSampled :

Tot Ion: 62 Resp: 6164

Ion Ratio Lower Upper

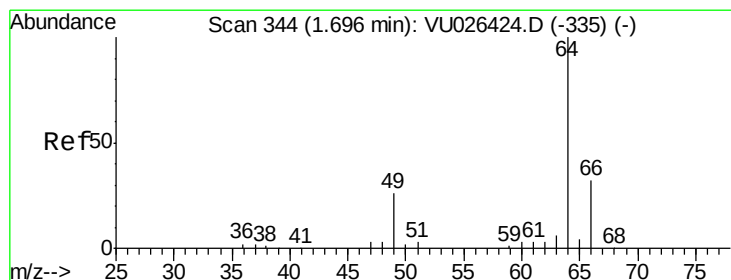
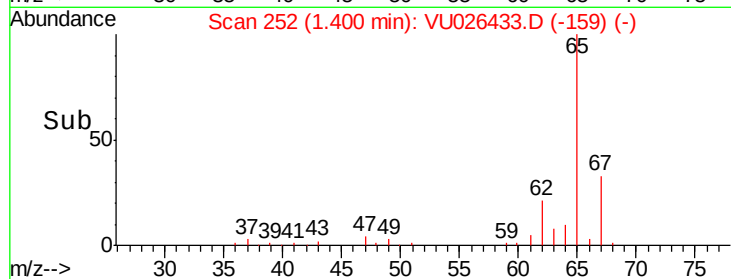
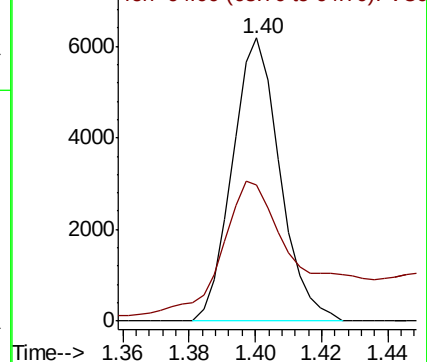
62 100

64 48.2 22.4 41.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#8

Chloroethane

Concen: 4.038 ug/L

RT: 1.40 min Scan# 251

Delta R.T. -0.30 min

Lab File: VU026433.D

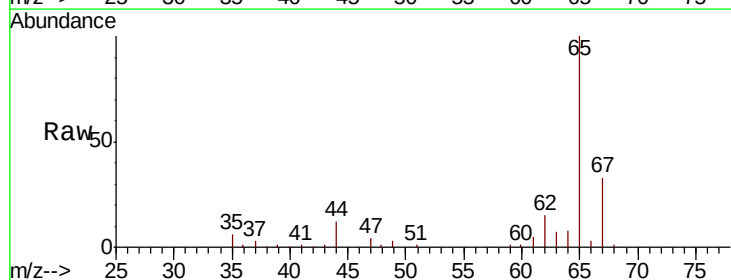
Acq: 29 Aug 2018 19:47

Tgt Ion: 64 Resp: 3947

Ion Ratio Lower Upper

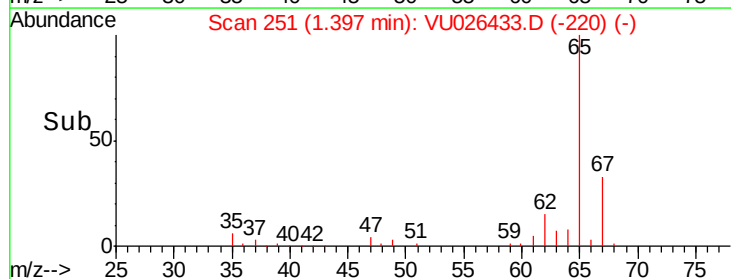
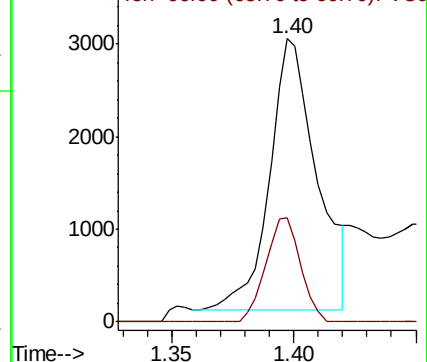
64 100

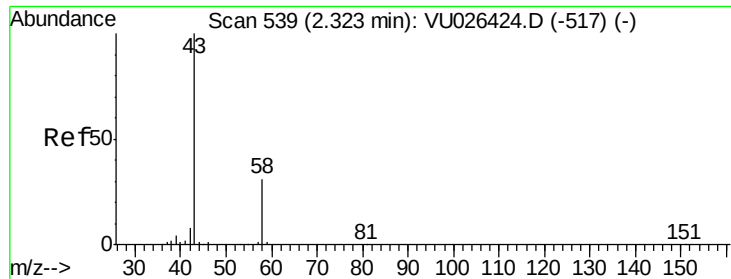
66 36.7 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#13

Acetone

Concen: 8.903 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

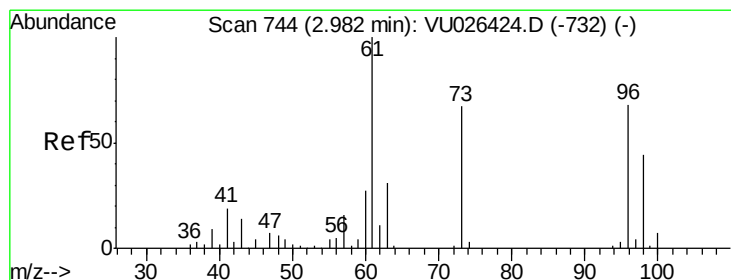
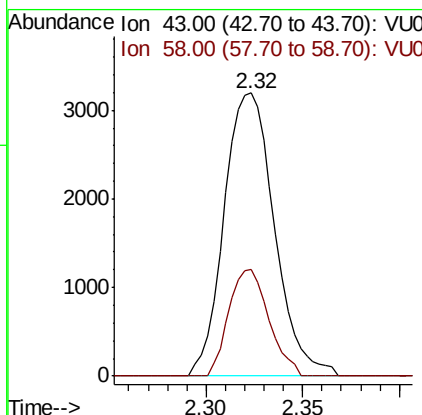
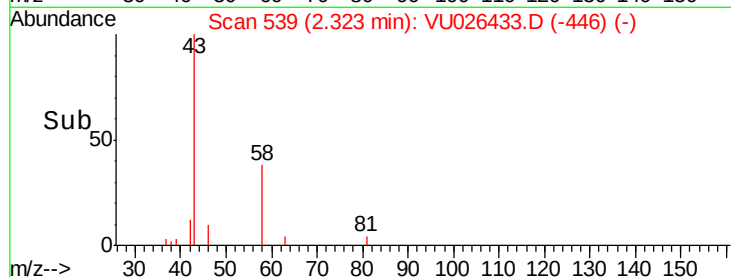
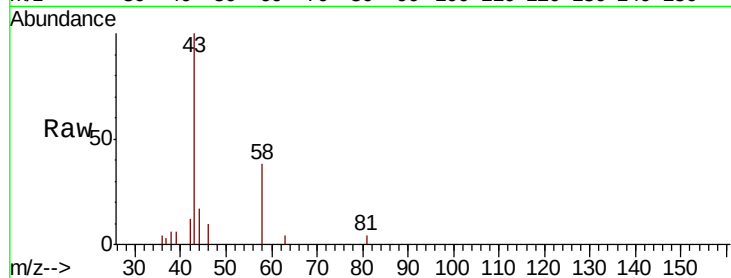
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 5782

Ion Ratio Lower Upper

43 100

58 30.0 0.0 61.2



#17

trans-1,2-Dichloroethene

Concen: 6.897 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

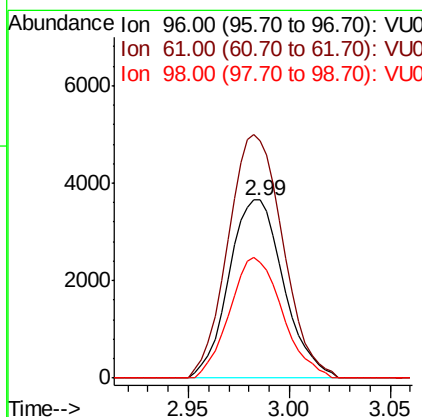
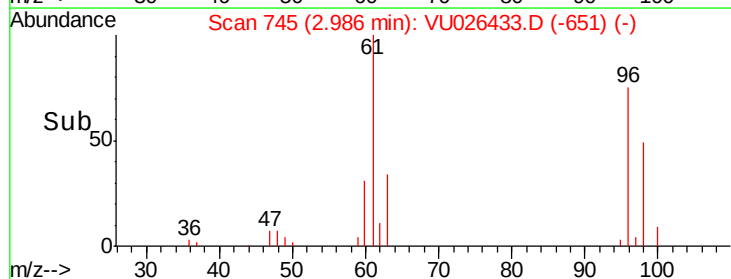
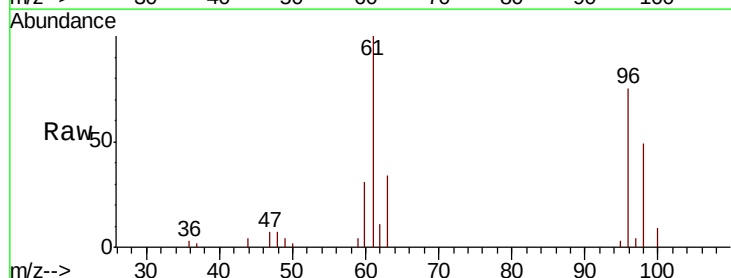
Tgt Ion: 96 Resp: 6945

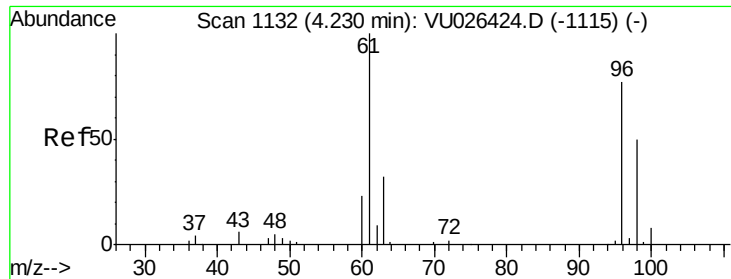
Ion Ratio Lower Upper

96 100

61 133.5 103.2 191.6

98 65.3 44.9 83.3

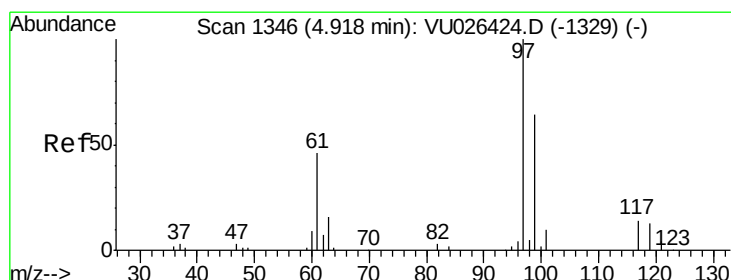
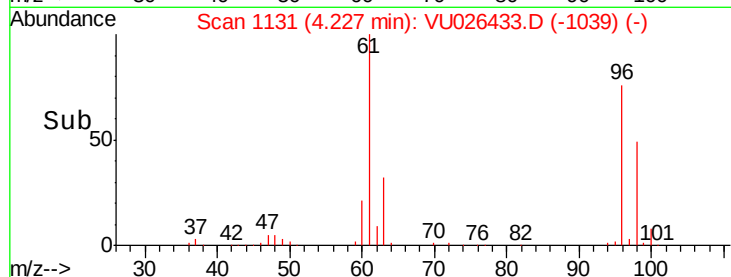
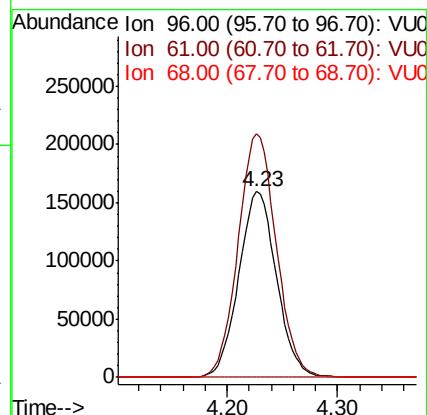
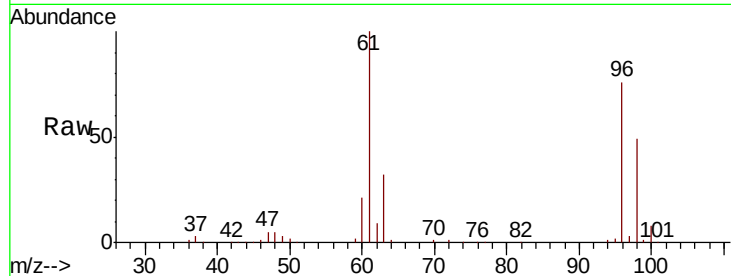




#20
 cis-1,2-Dichloroethene
 Concen: 335.608 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU026433.D
 Acq: 29 Aug 2018 19:47

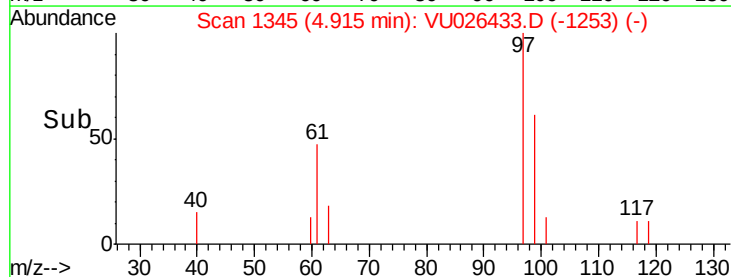
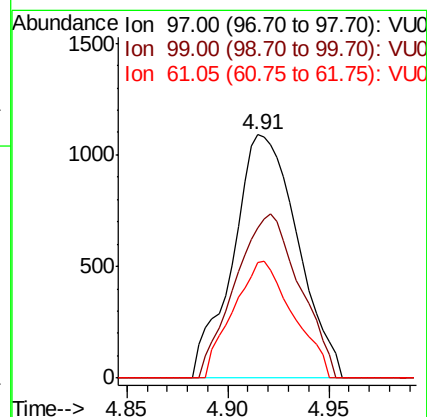
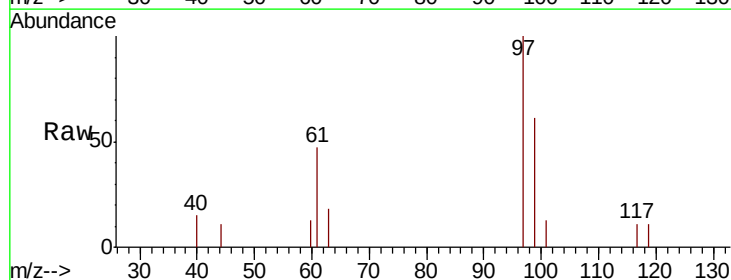
Instrument :
 MSVOA_U
 ClientSampleId :

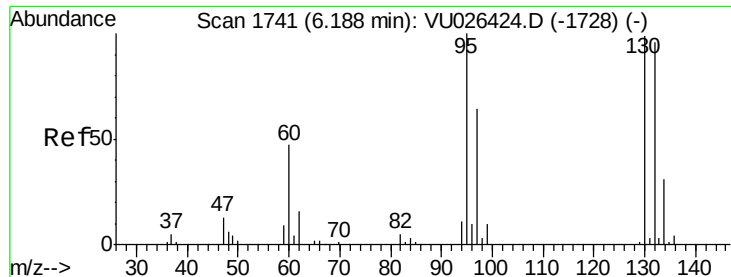
Tot Ion: 96 Resp: 378594
 Ion Ratio Lower Upper
 96 100
 61 130.9 91.6 170.2
 68 0.0 0.0 0.0



#30
 1,1,1-Trichloroethane
 Concen: 1.211 ug/L
 RT: 4.91 min Scan# 1345
 Delta R.T. -0.00 min
 Lab File: VU026433.D
 Acq: 29 Aug 2018 19:47

Tgt Ion: 97 Resp: 2438
 Ion Ratio Lower Upper
 97 100
 99 67.1 51.6 77.4
 61 44.4 37.9 56.9





#34

Trichloroethene

Concen: 4859.560 ug/L

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 6391328

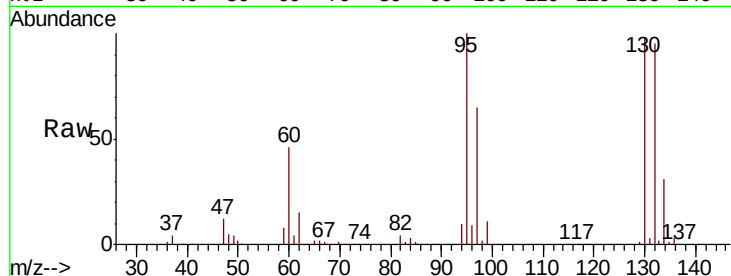
Ion Ratio Lower Upper

95 100

97 65.4 45.1 83.7

132 95.0 67.5 125.3

130 98.1 69.3 128.7

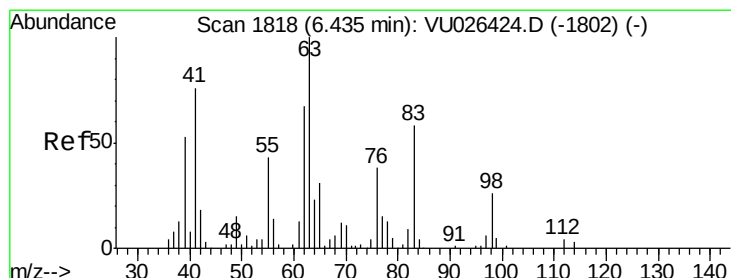
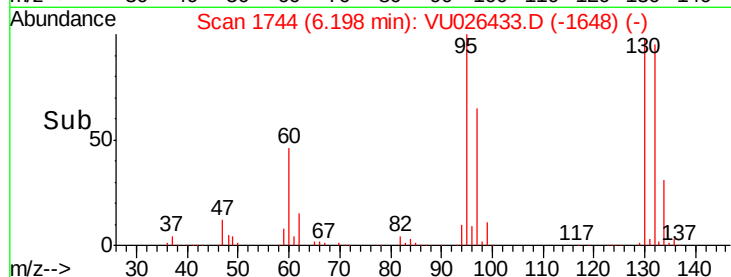
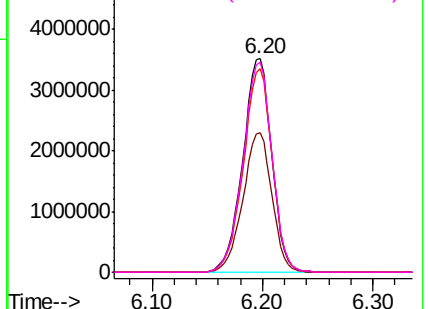


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#37

1,2-Dichloropropane

Concen: 4.124 ug/L

RT: 6.34 min Scan# 1787

Delta R.T. -0.10 min

Lab File: VU026433.D

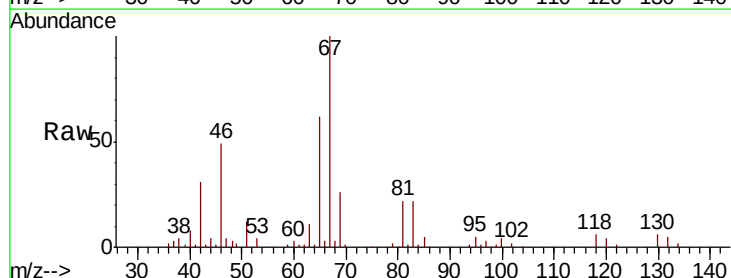
Acq: 29 Aug 2018 19:47

Tgt Ion: 63 Resp: 5987

Ion Ratio Lower Upper

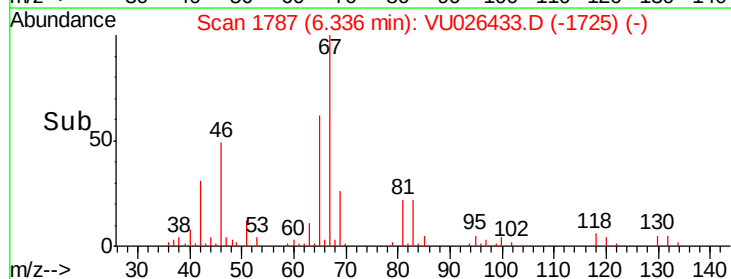
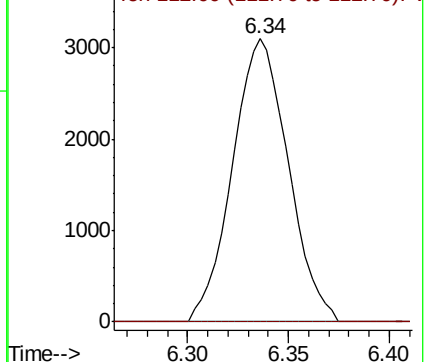
63 100

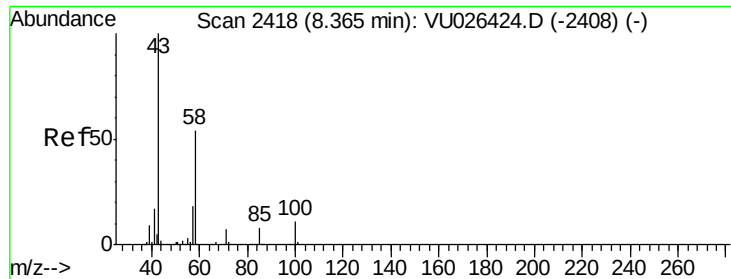
112 0.0 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V

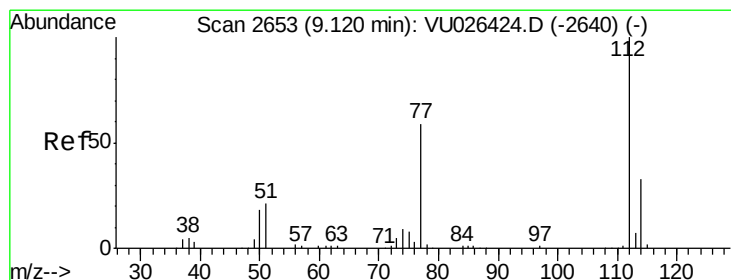
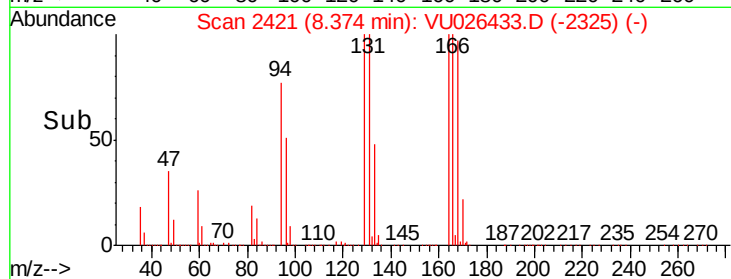
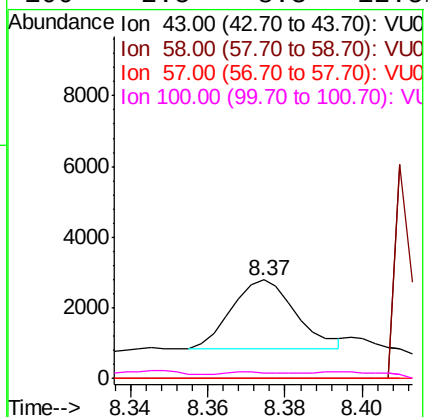
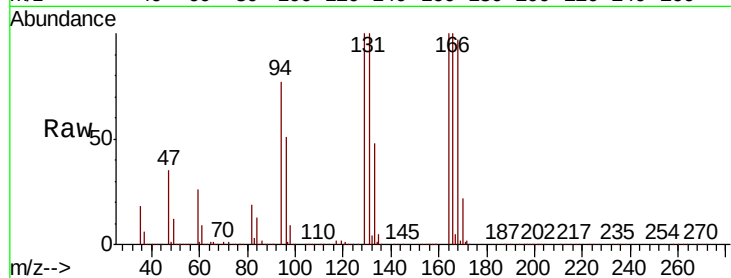




#48
2-Hexanone
Concen: 1.441 ug/L
RT: 8.37 min Scan# 2421
Delta R.T. 0.01 min
Lab File: VU026433.D
Acq: 29 Aug 2018 19:47

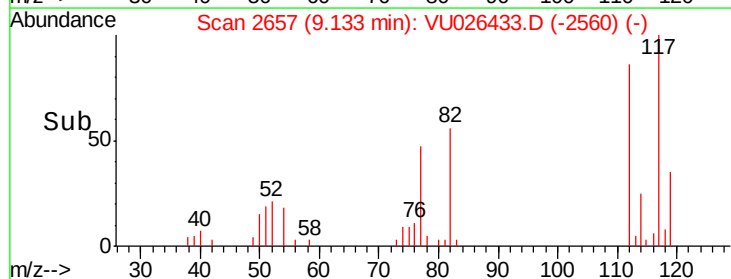
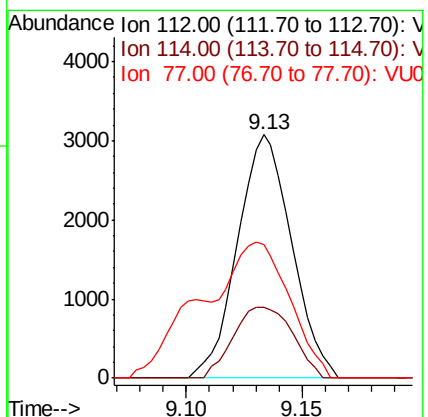
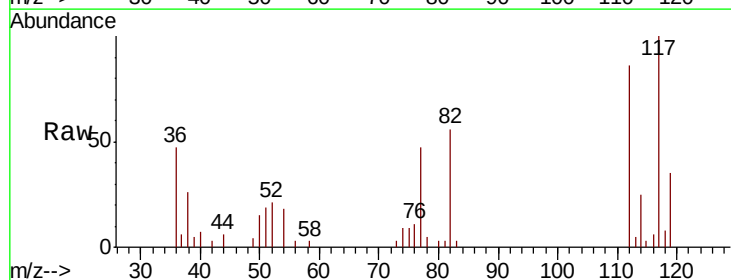
Instrument :
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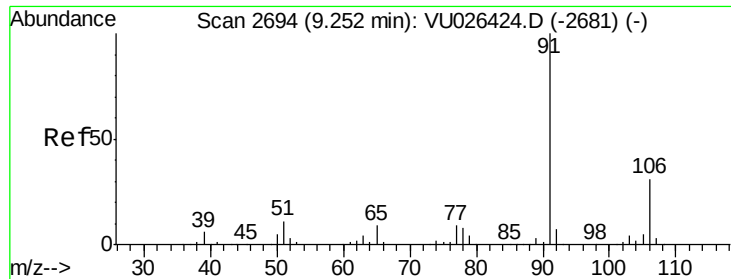
Tot Ion:	43	Resp:	2221
Ion	Ratio	Lower	Upper
43	100		
58	0.0	42.2	63.4#
57	0.0	14.6	21.8#
100	2.5	8.3	12.5#



#51
Chlorobenzene
Concen: 1.364 ug/L
RT: 9.13 min Scan# 2657
Delta R.T. 0.01 min
Lab File: VU026433.D
Acq: 29 Aug 2018 19:47

Tgt Ion:	112	Resp:	4990
Ion	Ratio	Lower	Upper
112	100		
114	29.0	23.2	43.2
77	54.6	47.3	70.9





#52

Ethylbenzene

Concen: 1.335 ug/L

RT: 9.26 min Scan# 2697

Delta R.T. 0.01 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

Instrument :

MSVOA_U

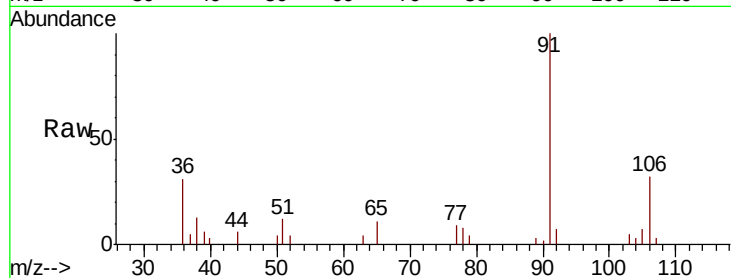
ClientSampled :

Tot Ion: 91 Resp: 7945

Ion Ratio Lower Upper

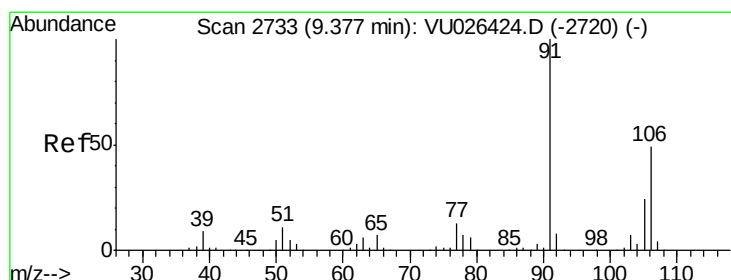
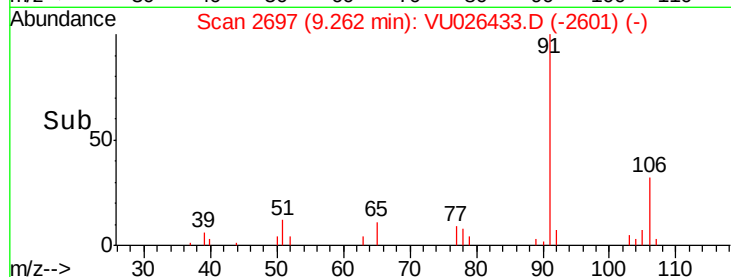
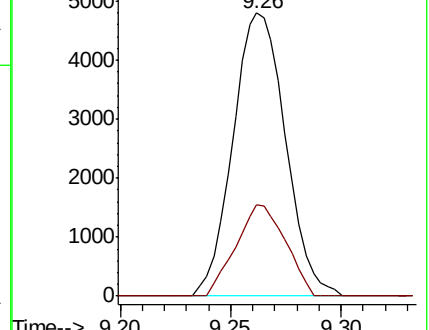
91 100

106 32.1 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU026424.D (-2681) (-)

Ion 106.00 (105.70 to 106.70): VU026424.D (-2681) (-)



#53

m,p-Xylene

Concen: 5.338 ug/L

RT: 9.38 min Scan# 2735

Delta R.T. 0.01 min

Lab File: VU026433.D

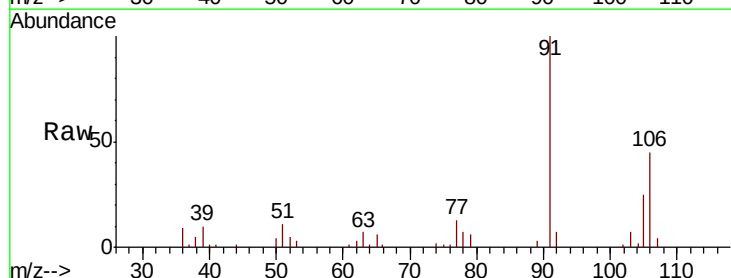
Acq: 29 Aug 2018 19:47

Tgt Ion: 106 Resp: 11860

Ion Ratio Lower Upper

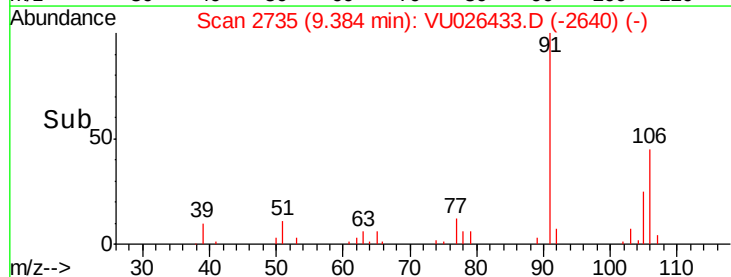
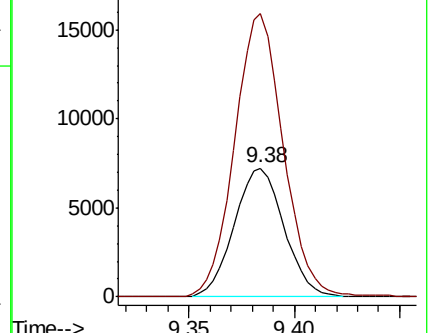
106 100

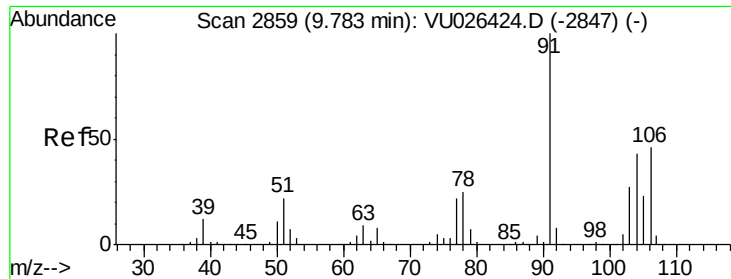
91 219.9 143.0 265.6



Abundance Ion 106.00 (105.70 to 106.70): VU026424.D (-2720) (-)

Ion 91.00 (90.70 to 91.70): VU026424.D (-2720) (-)





#54

o-xylene

Concen: 3.371 ug/L

RT: 9.79 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

Instrument :

MSVOA_U

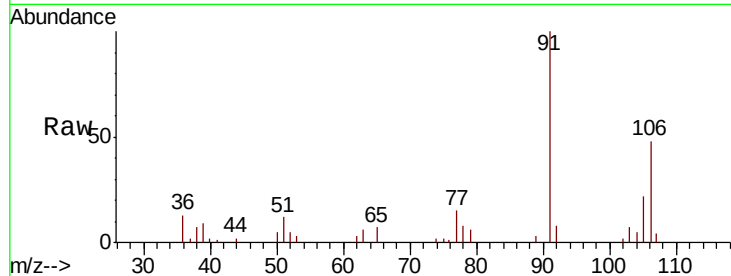
ClientSampleId :

Tot Ion:106 Resp: 7305

Ion Ratio Lower Upper

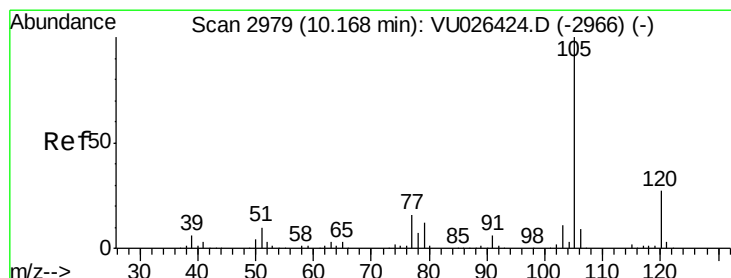
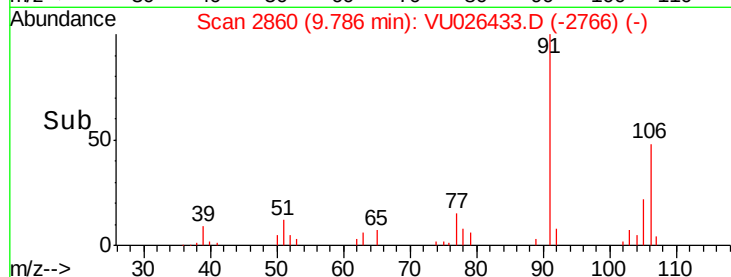
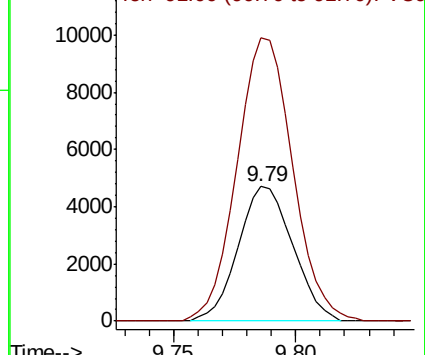
106 100

91 210.2 153.3 284.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 1.364 ug/L

RT: 10.17 min Scan# 2981

Delta R.T. 0.01 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

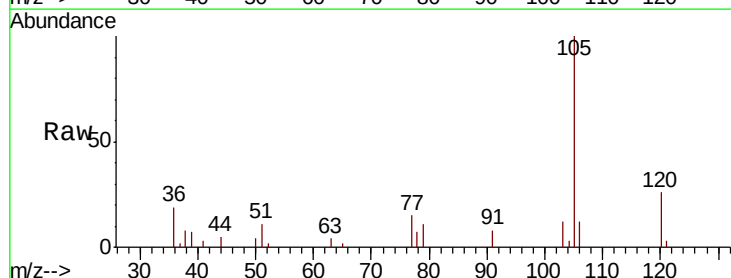
Tgt Ion:105 Resp: 7738

Ion Ratio Lower Upper

105 100

120 24.8 21.5 32.3

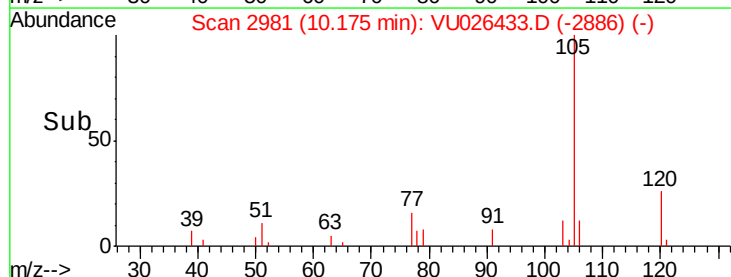
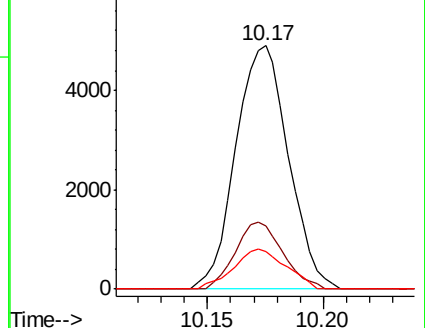
77 16.3 12.9 19.3

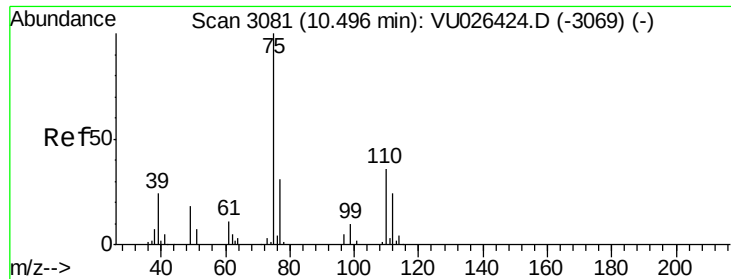


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#59

1,2,3-Trichloropropane

Concen: 7.002 ug/L

RT: 11.49 min Scan# 3389

Delta R.T. 0.99 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

Instrument :

MSVOA_U

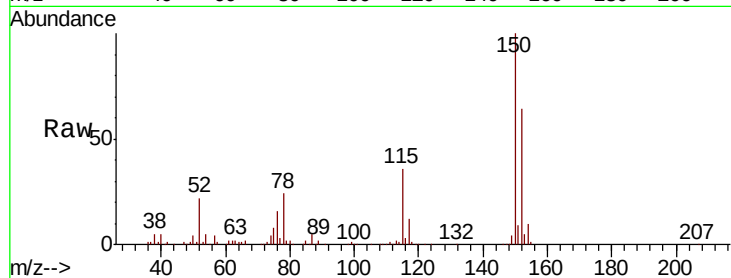
ClientSampleId :

Tot Ion: 75 Resp: 12683

Ion Ratio Lower Upper

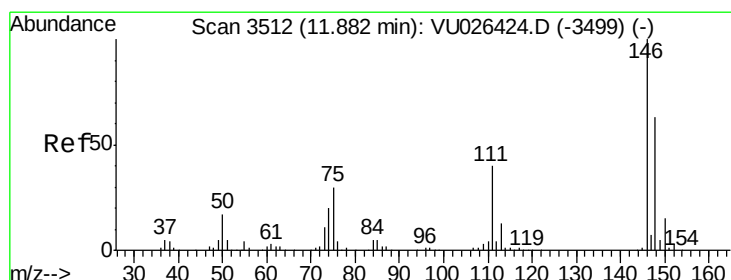
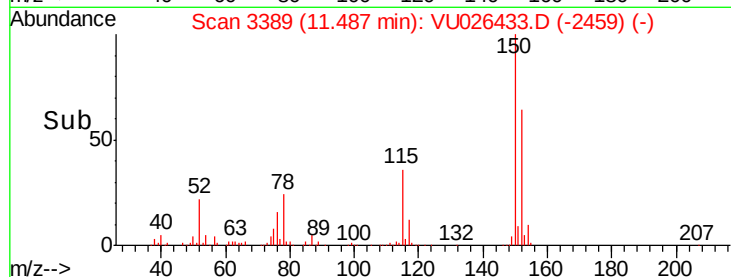
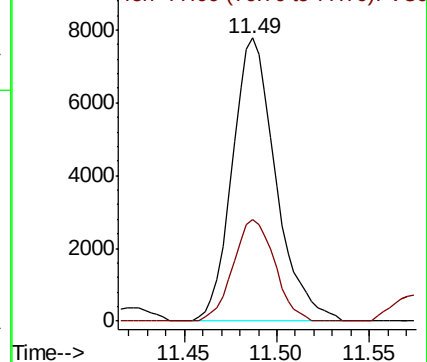
75 100

77 34.1 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#65

1,2-Dichlorobenzene

Concen: 6.659 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU026433.D

Acq: 29 Aug 2018 19:47

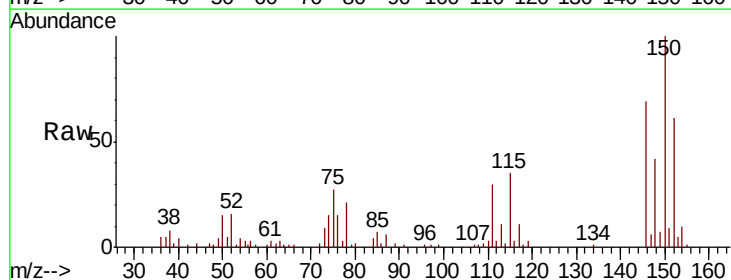
Tgt Ion: 146 Resp: 19854

Ion Ratio Lower Upper

146 100

111 43.5 32.0 48.0

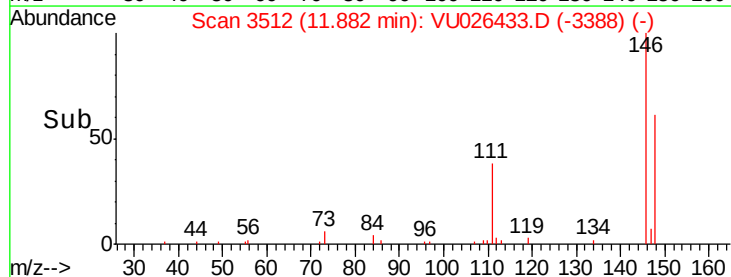
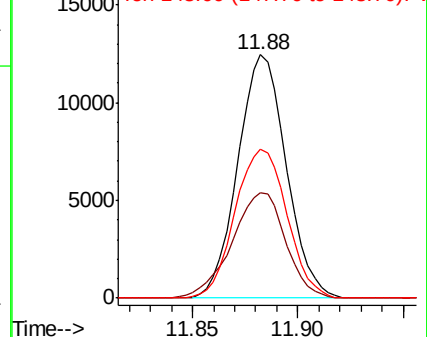
148 61.2 50.2 75.2

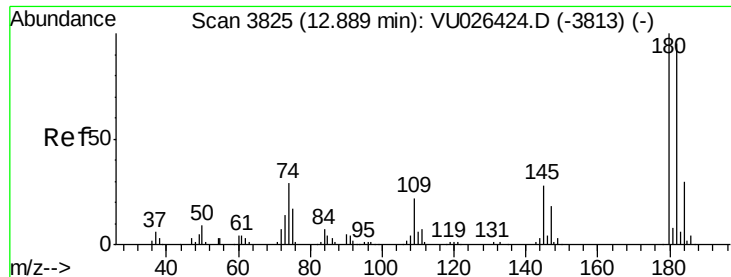


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

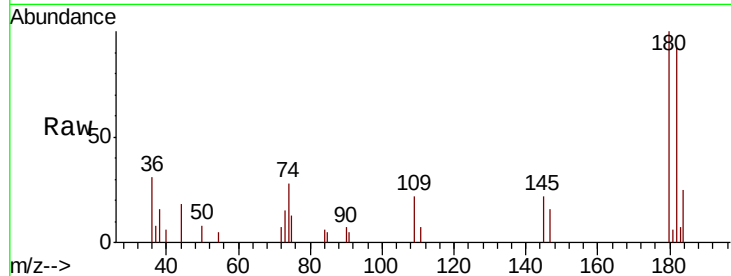




#67
 1,3,5-Trichlorobenzene
 Concen: 1.342 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026433.D
 Acq: 29 Aug 2018 19:47

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	3062
Ion	Ratio	Lower	Upper
180	100		
182	90.4	76.5	114.7
184	27.3	25.0	37.4
145	24.8	22.3	33.5



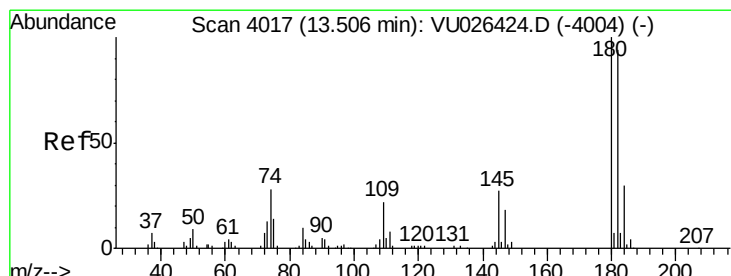
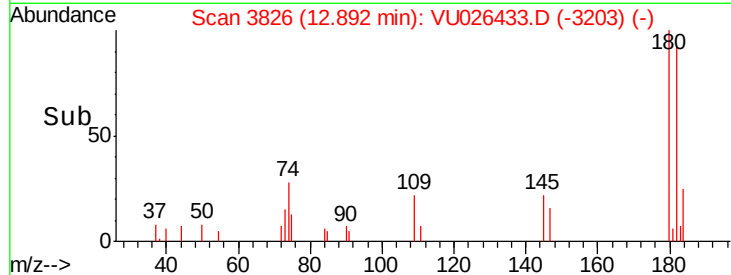
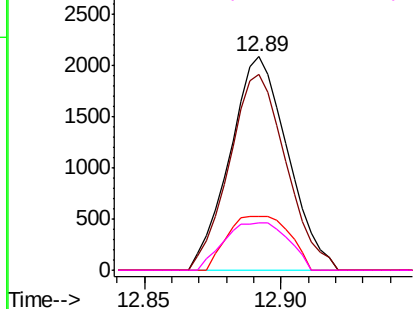
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

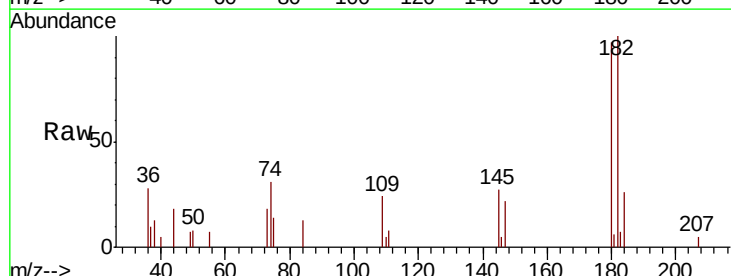
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.798 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU026433.D
 Acq: 29 Aug 2018 19:47

Tgt Ion:	180	Resp:	3582
Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.6	114.8
145	25.5	22.4	33.6



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

