

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
 Data File : VU032520.D
 Acq On : 07 Jun 2019 00:58
 Operator : JC/SP
 Sample : K3215-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DB8J1

Quant Time: Jun 07 07:16:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 07 07:01:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	202689	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	189104	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	97053	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	38752	29.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	58.94%#
7) Chloroethane-d5	1.68	69	36283	34.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	68.66%#
11) 1,1-Dichloroethene-d2	2.27	63	65600	25.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	50.96%#
21) 2-Butanone-d5	4.17	46	104338	94.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.81%
24) Chloroform-d	4.64	84	102123	41.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.28%
26) 1,2-Dichloroethane-d4	5.30	65	69382	44.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.82%
32) Benzene-d6	5.33	84	206830	42.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.26%
36) 1,2-Dichloropropane-d6	6.32	67	69173	44.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.88%
41) Toluene-d8	7.56	98	193115	41.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.98%
43) trans-1,3-Dichloropropene-	7.85	79	30290	41.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.24%
47) 2-Hexanone-d5	8.31	63	71506	95.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	104238	46.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.46%
64) 1,2-Dichlorobenzene-d4	11.85	152	89046	47.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Ovalue
13) Acetone	2.32	43	1674	1.474	ug/L 92
17) trans-1,2-Dichloroethene	2.98	96	9070	6.959	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	256235	173.721	ug/L 97
33) Benzene	5.39	78	50387	9.483	ug/L 100
34) Trichloroethene	6.18	95	204826	141.696	ug/L 99
42) Toluene	7.64	91	3170	0.545	ug/L 94
46) Tetrachloroethene	8.22	164	129124	108.154	ug/L 99
51) Chlorobenzene	9.11	112	161759	43.148	ug/L 100
52) Ethylbenzene	9.25	91	8828	1.361	ug/L 96
53) m,p-Xylene	9.38	106	1230	0.499	ug/L 95
54) o-xylene	9.77	106	6224	2.542	ug/L 96
56) Isopropylbenzene	10.16	105	37332	5.781	ug/L 100
62) 1,3-Dichlorobenzene	11.42	146	2033	0.692	ug/L 90
63) 1,4-Dichlorobenzene	11.50	146	28997	9.660	ug/L 100
65) 1,2-Dichlorobenzene	11.87	146	27697	9.330	ug/L 99
68) 1,2,4-trichlorobenzene	13.51	180	1706	0.881	ug/L 97

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QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration

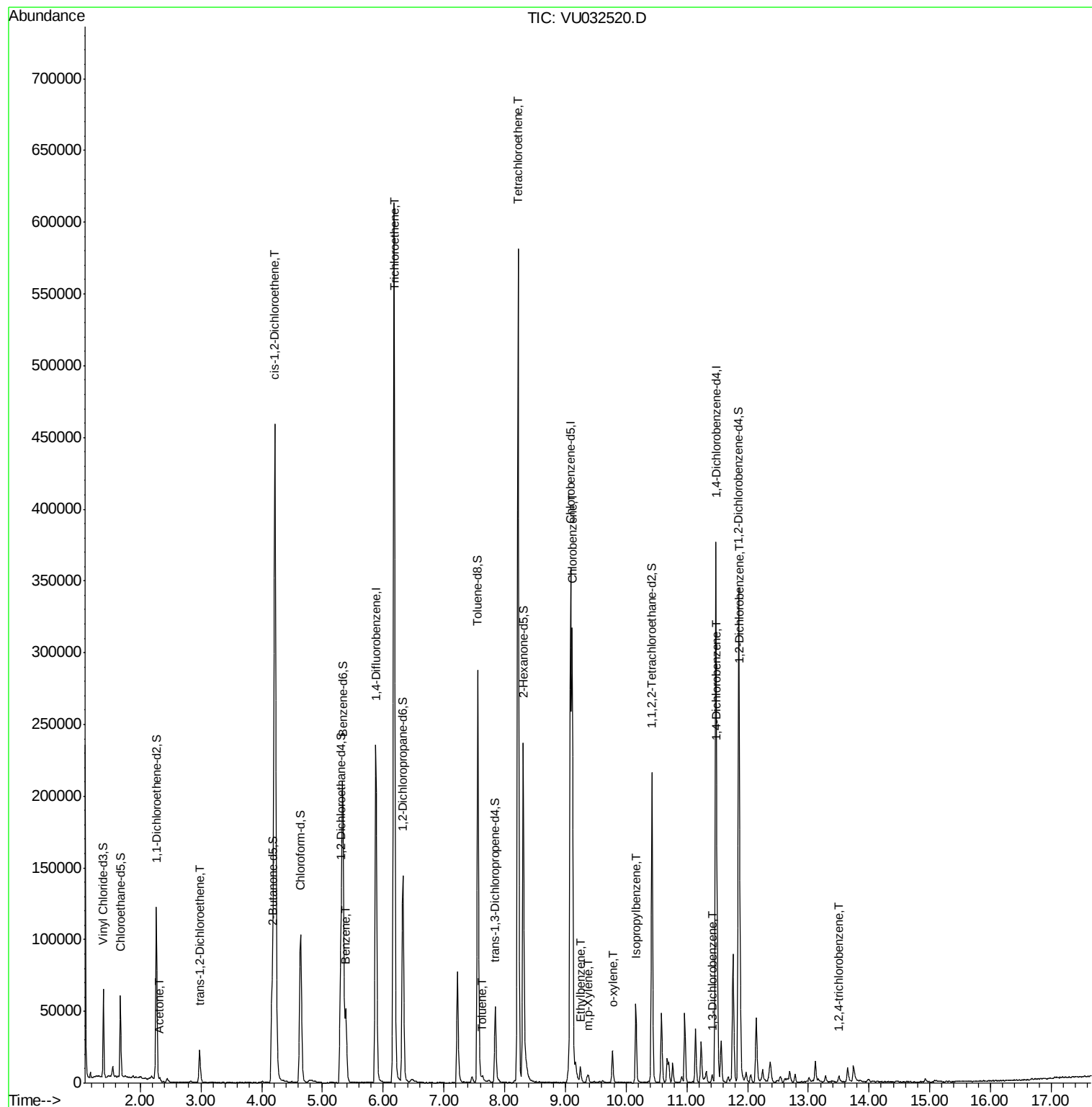
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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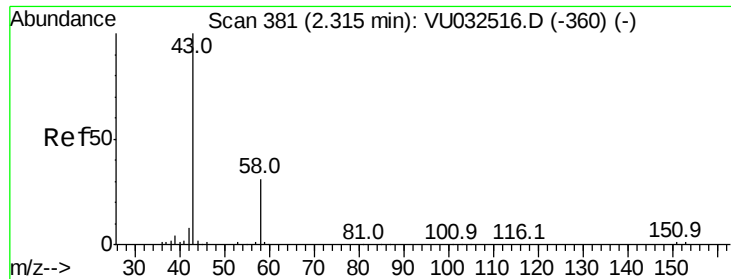
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration





#13

Acetone

Concen: 1.474 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

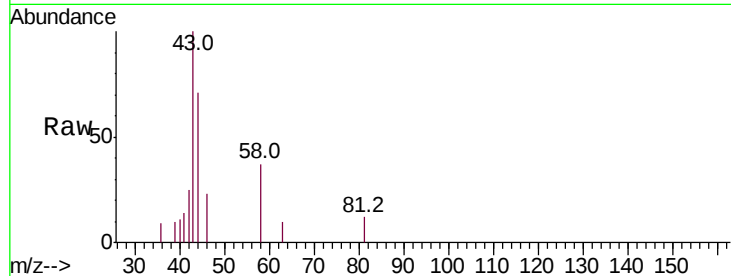
DB8J1

Tot Ion: 43 Resp: 1674

Ion Ratio Lower Upper

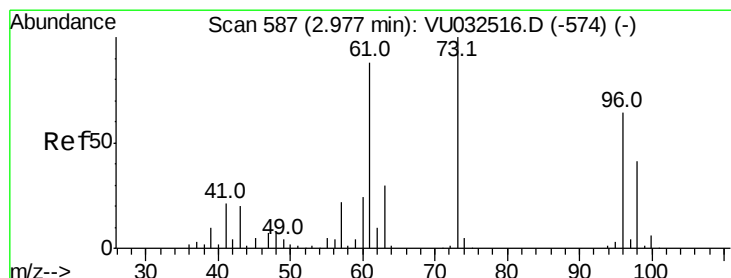
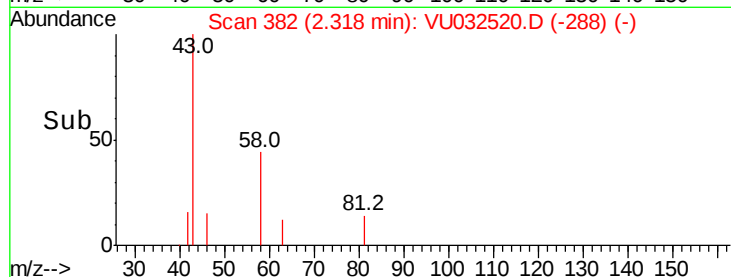
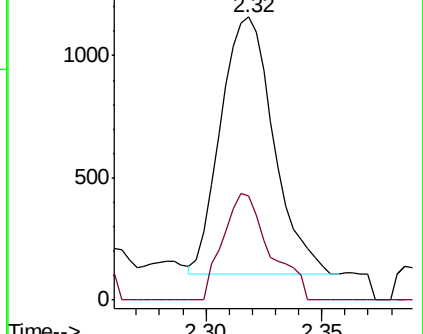
43 100

58 36.7 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

trans-1,2-Dichloroethene

Concen: 6.959 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

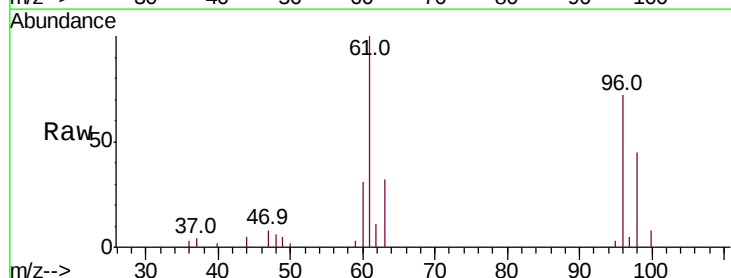
Tgt Ion: 96 Resp: 9070

Ion Ratio Lower Upper

96 100

61 138.3 95.7 177.7

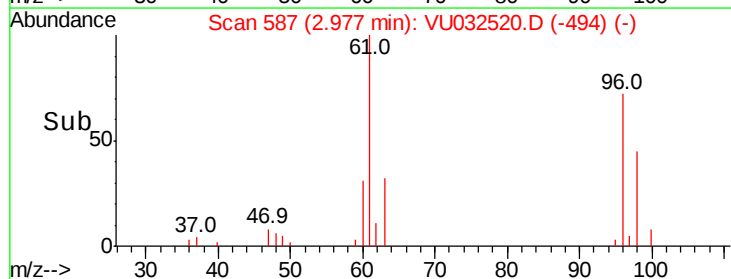
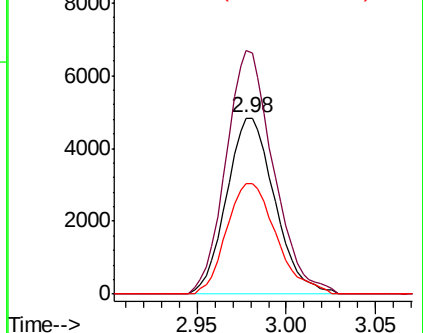
98 62.8 44.0 81.6

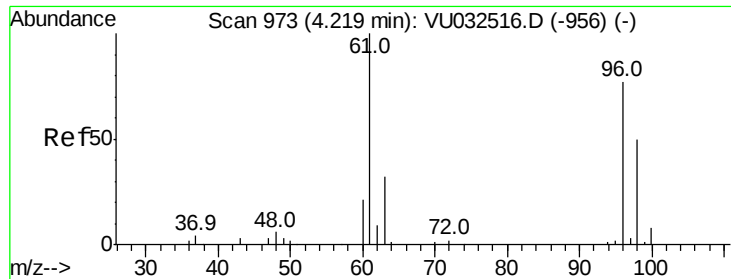


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

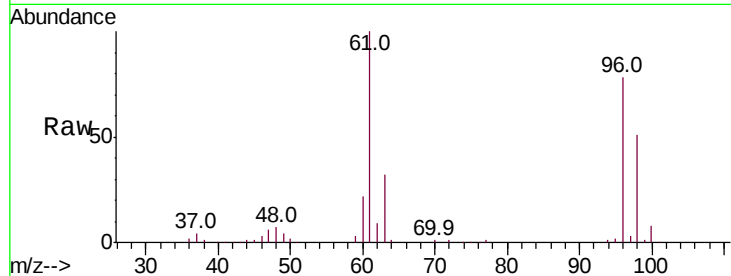




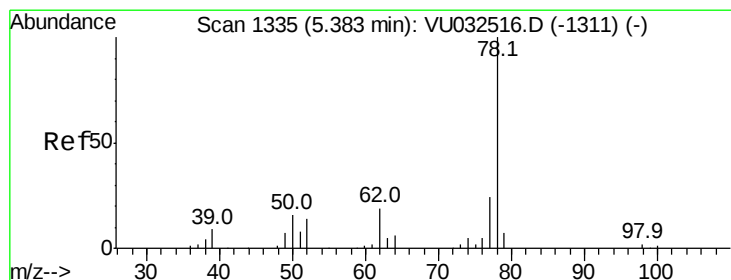
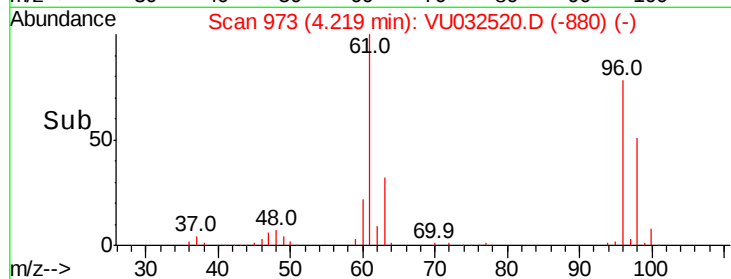
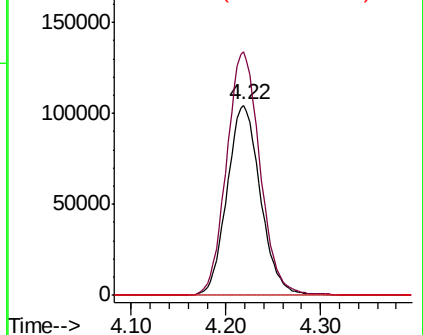
#20
 cis-1,2-Dichloroethene
 Concen: 173.721 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU032520.D
 Acq: 07 Jun 2019 00:58

Instrument :
 MSVOA_U
 ClientSampleId :
 DB8J1

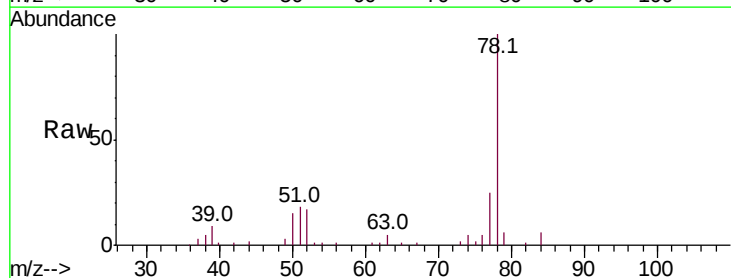
Tot Ion: 96 Resp: 256235
 Ion Ratio Lower Upper
 96 100
 61 128.0 87.2 162.0
 68 0.0 0.0 0.0



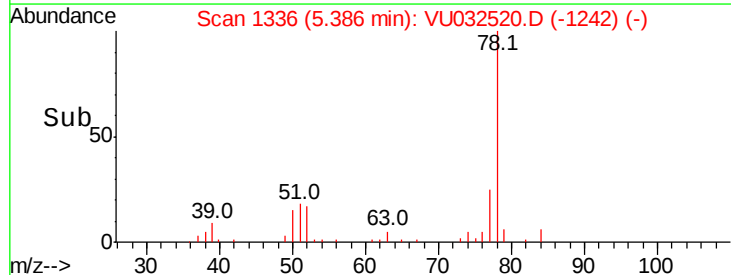
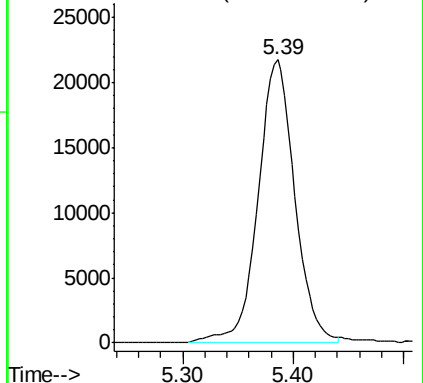
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

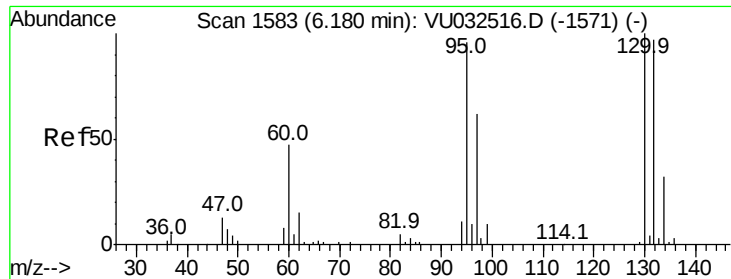


#33
 Benzene
 Concen: 9.483 ug/L
 RT: 5.39 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU032520.D
 Acq: 07 Jun 2019 00:58
 Tgt Ion: 78 Resp: 50387



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 141.696 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

DB8J1

Tot Ion: 95 Resp: 204826

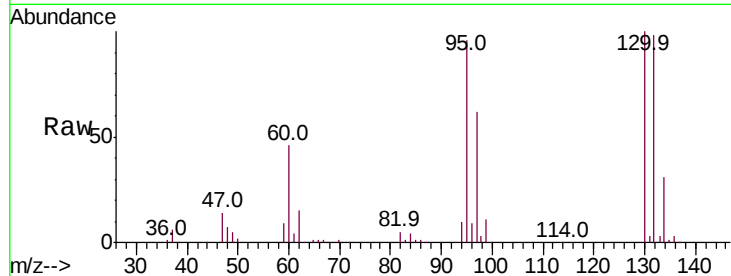
Ion Ratio Lower Upper

95 100

97 64.9 45.8 85.2

132 101.6 71.0 131.8

130 104.0 73.4 136.2

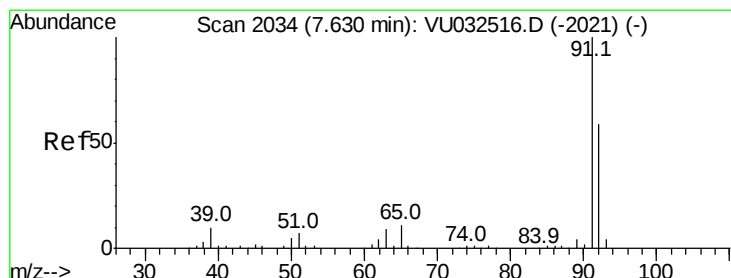
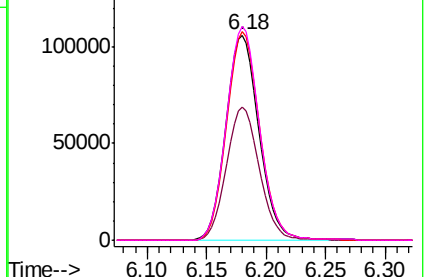
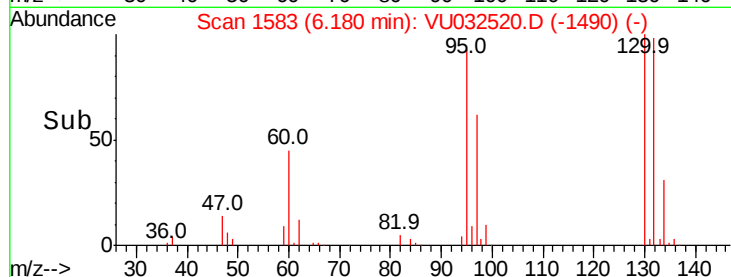


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#42

Toluene

Concen: 0.545 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. 0.01 min

Lab File: VU032520.D

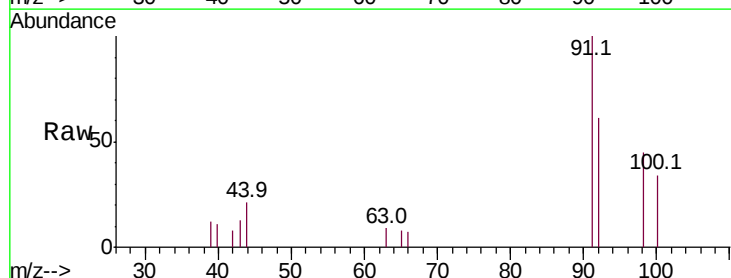
Acq: 07 Jun 2019 00:58

Tgt Ion: 91 Resp: 3170

Ion Ratio Lower Upper

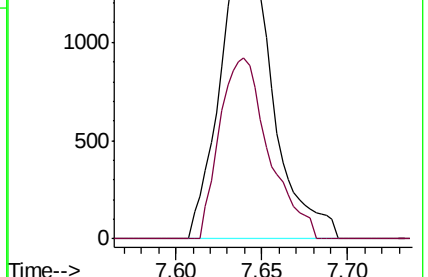
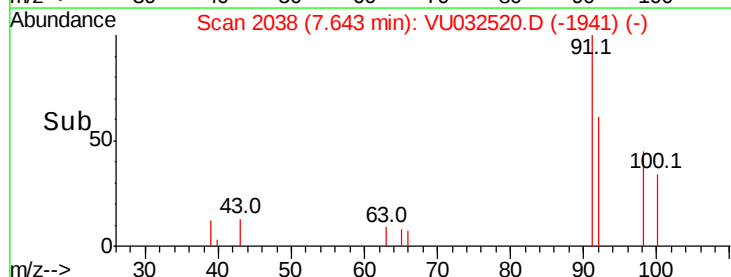
91 100

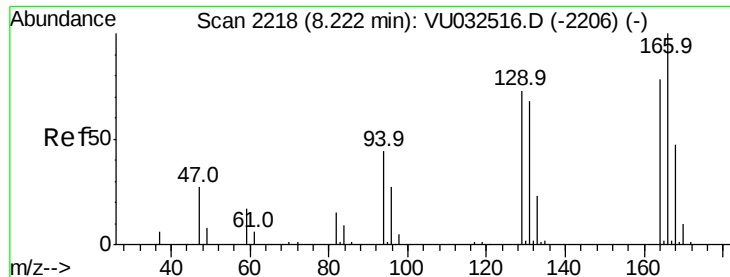
92 61.5 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0





#46

Tetrachloroethene

Concen: 108.154 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

DB8J1

Tot Ion:164 Resp: 129124

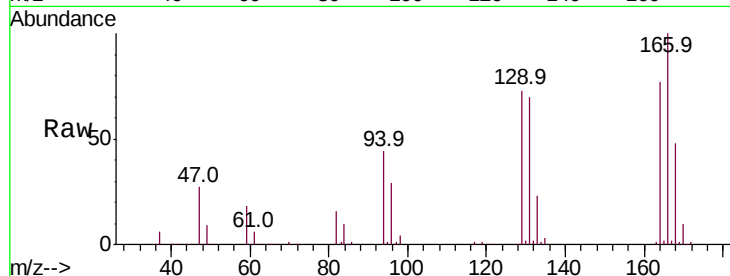
Ion Ratio Lower Upper

164 100

129 94.0 65.3 121.3

131 90.1 64.0 119.0

166 129.2 88.8 165.0

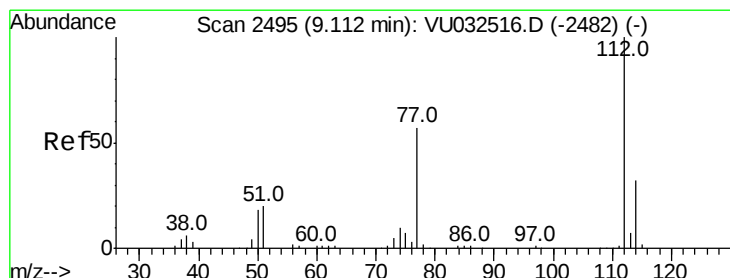
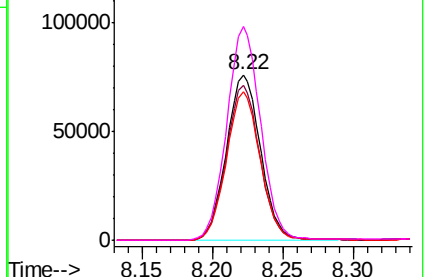
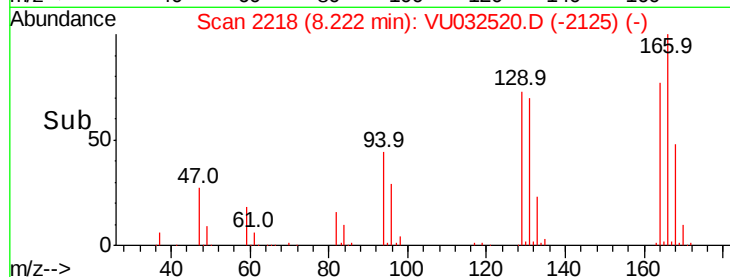


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#51

Chlorobenzene

Concen: 43.148 ug/L

RT: 9.11 min Scan# 2495

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

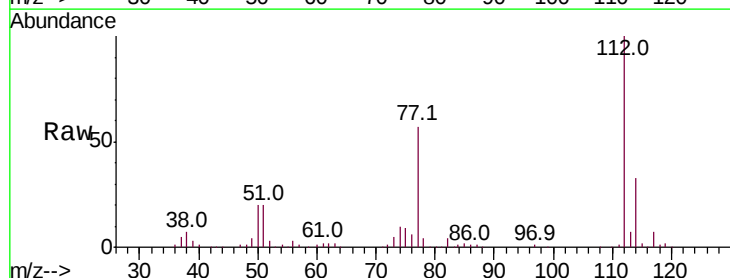
Tgt Ion:112 Resp: 161759

Ion Ratio Lower Upper

112 100

114 32.7 22.6 42.0

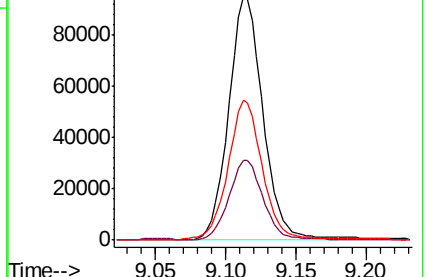
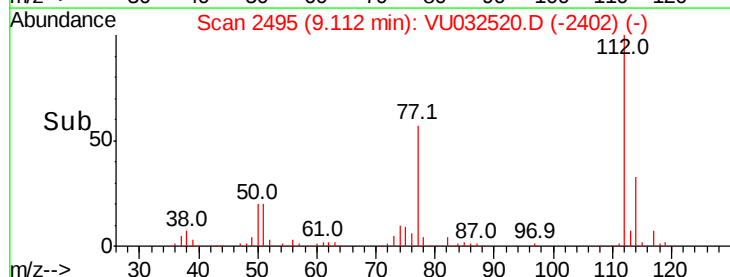
77 57.3 46.1 69.1

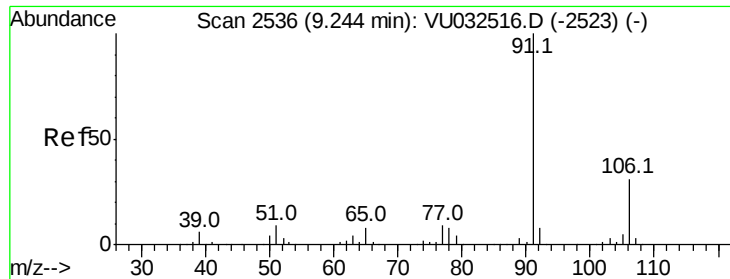


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 1.361 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampled :

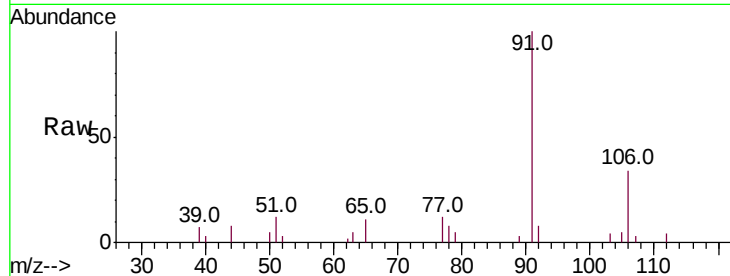
DB8J1

Tot Ion: 91 Resp: 8828

Ion Ratio Lower Upper

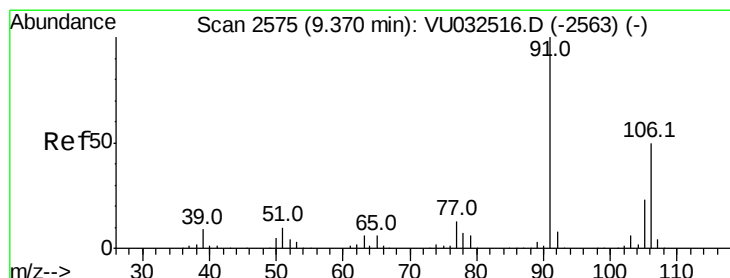
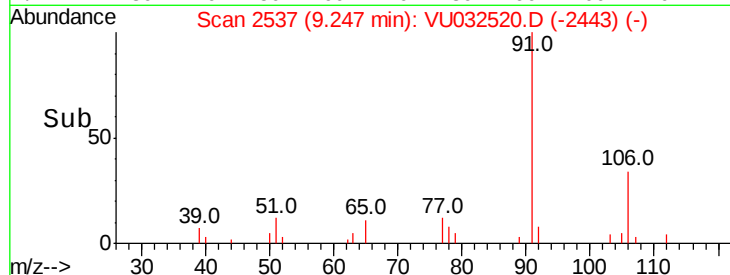
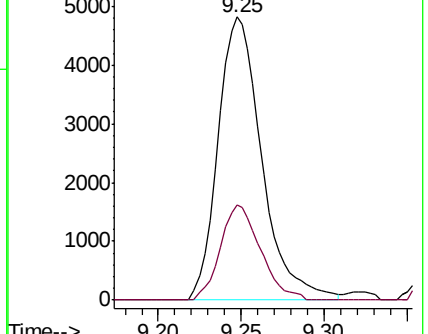
91 100

106 33.5 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU032516.D (-2523) (-)

Ion 106.00 (105.70 to 106.70): VU032516.D (-2523) (-)



#53

m,p-Xylene

Concen: 0.499 ug/L

RT: 9.38 min Scan# 2578

Delta R.T. 0.01 min

Lab File: VU032520.D

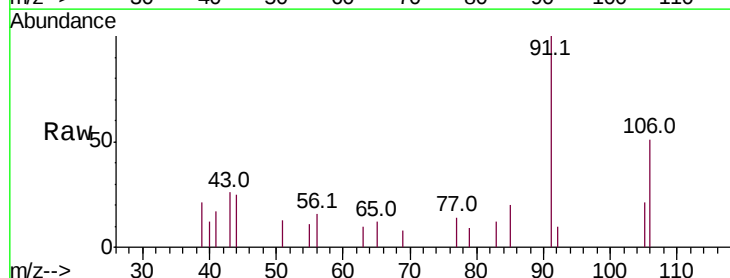
Acq: 07 Jun 2019 00:58

Tgt Ion: 106 Resp: 1230

Ion Ratio Lower Upper

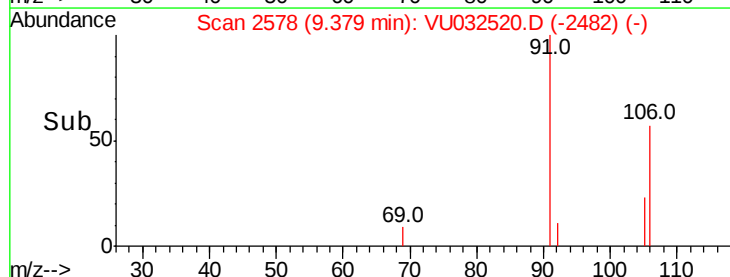
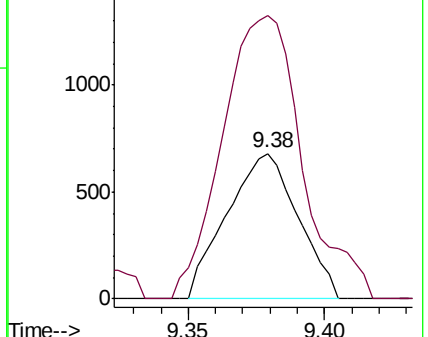
106 100

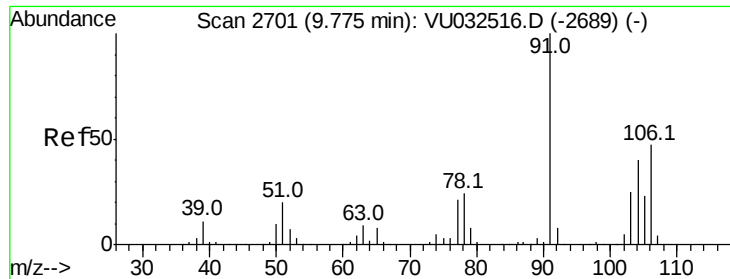
91 194.8 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): VU032516.D (-2563) (-)

Ion 91.00 (90.70 to 91.70): VU032516.D (-2563) (-)





#54

o-xylene

Concen: 2.542 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

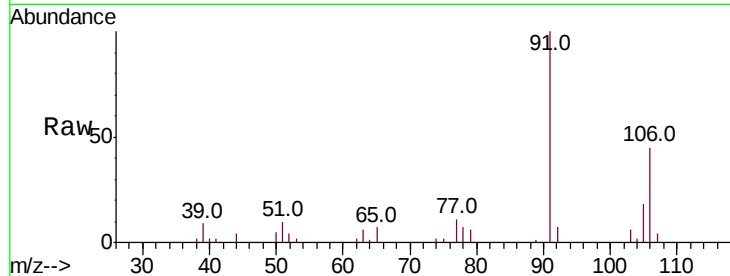
DB8J1

Tot Ion:106 Resp: 6224

Ion Ratio Lower Upper

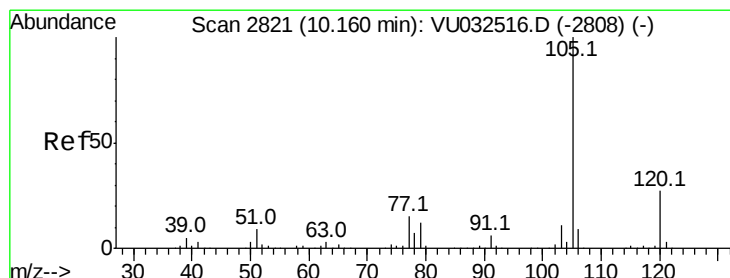
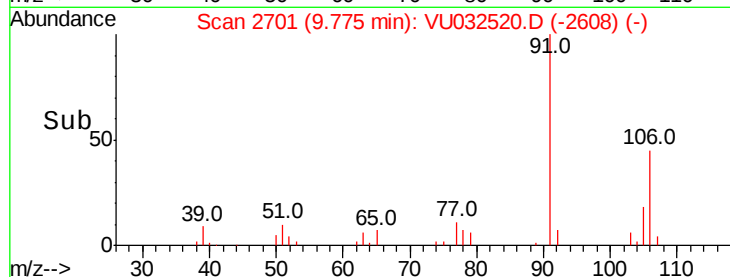
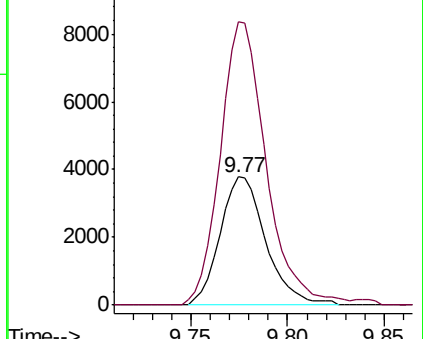
106 100

91 220.6 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 5.781 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

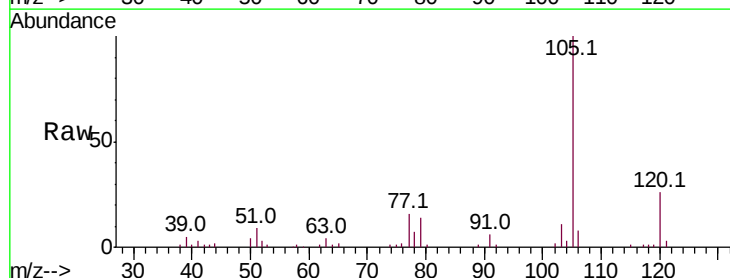
Tgt Ion:105 Resp: 37332

Ion Ratio Lower Upper

105 100

120 27.0 21.6 32.4

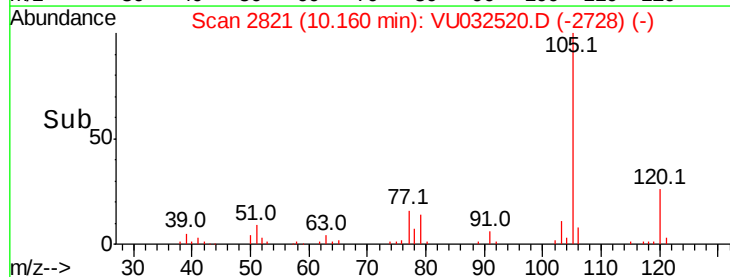
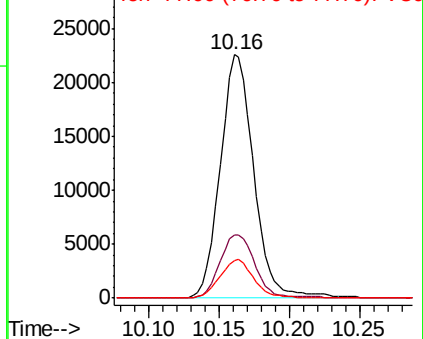
77 15.9 12.4 18.6

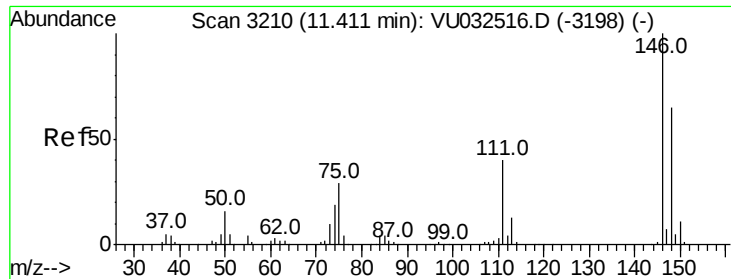


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#62

1,3-Dichlorobenzene

Concen: 0.692 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.01 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

DB8J1

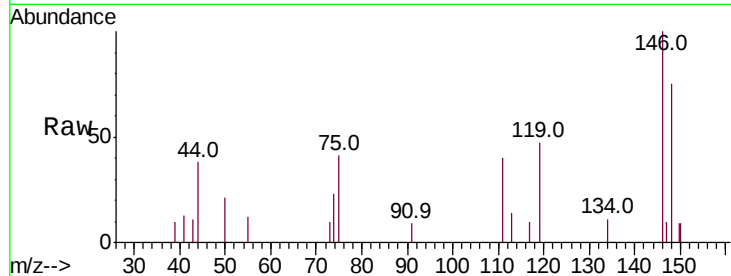
Tot Ion:146 Resp: 2033

Ion Ratio Lower Upper

146 100

111 40.3 27.3 50.7

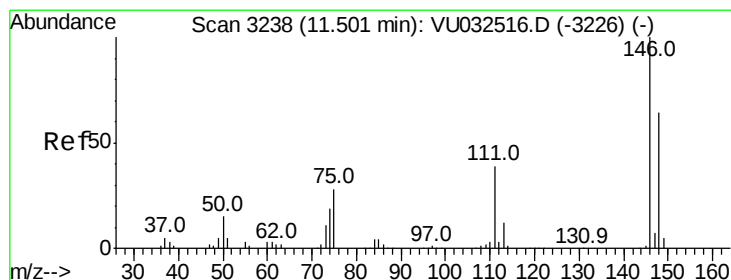
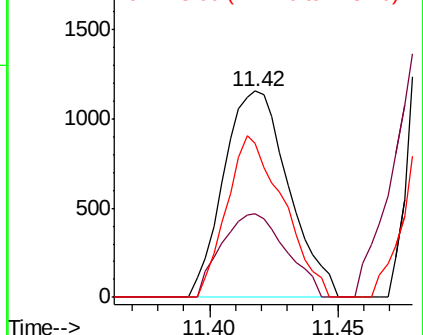
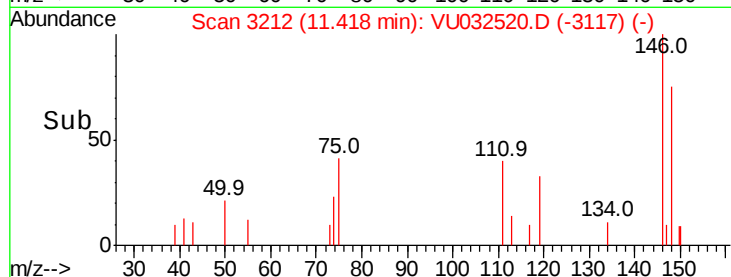
148 75.0 44.4 82.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 9.660 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

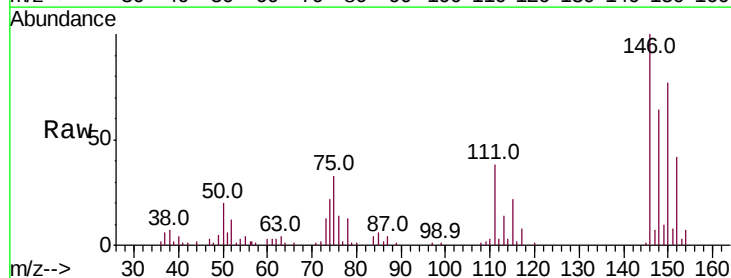
Tgt Ion:146 Resp: 28997

Ion Ratio Lower Upper

146 100

111 37.6 26.6 49.4

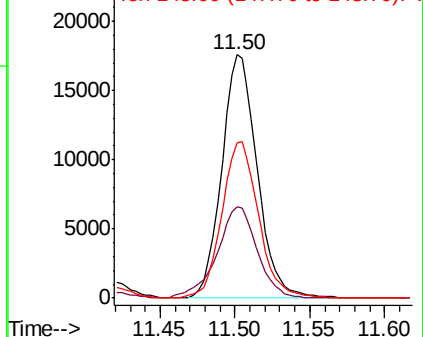
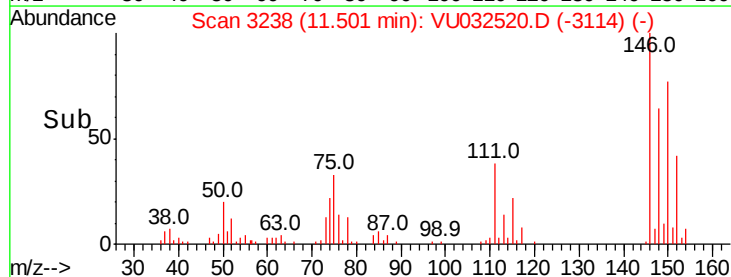
148 63.9 44.9 83.5

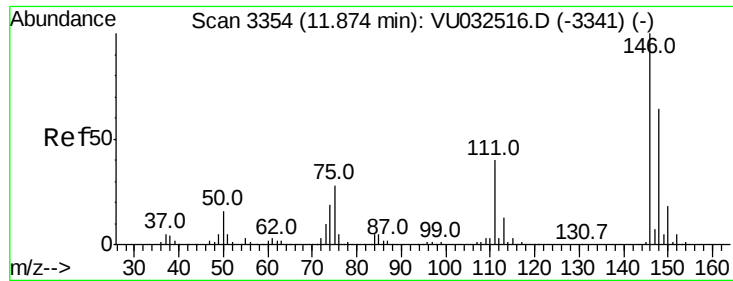


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 9.330 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

DB8J1

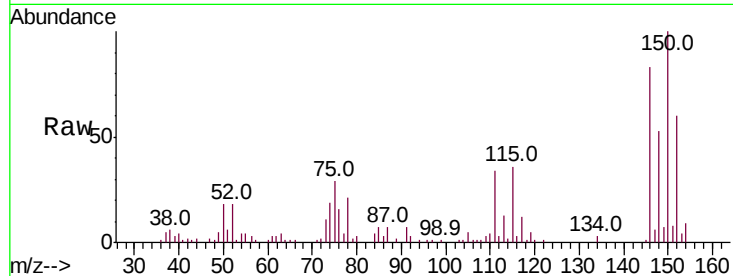
Tot Ion:146 Resp: 27697

Ion Ratio Lower Upper

146 100

111 41.5 32.6 48.8

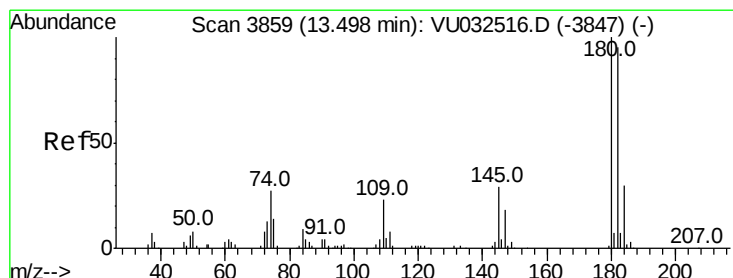
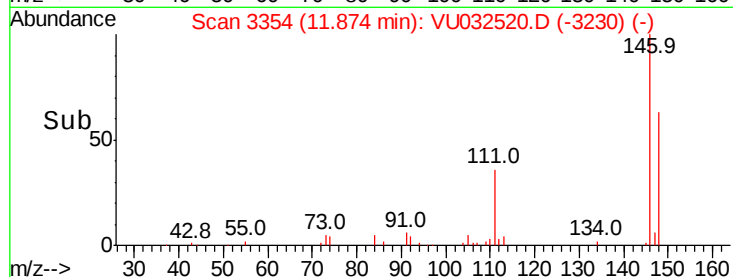
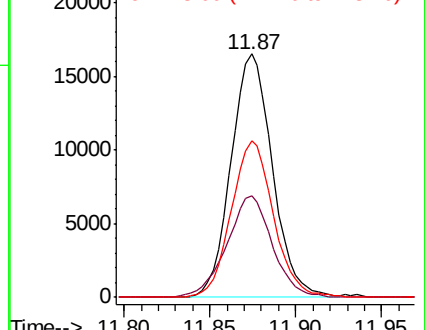
148 64.1 50.5 75.7



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



#68

1,2,4-trichlorobenzene

Concen: 0.881 ug/L

RT: 13.51 min Scan# 3862

Delta R.T. 0.01 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

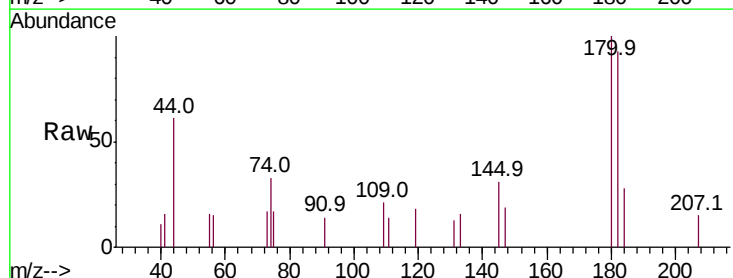
Tgt Ion:180 Resp: 1706

Ion Ratio Lower Upper

180 100

182 93.1 76.5 114.7

145 28.0 23.8 35.6



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

