

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071619\
 Data File : VU033262.D
 Acq On : 16 Jul 2019 14:26
 Operator : JC/SP
 Sample : K3772-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A52T8

Quant Time: Jul 17 05:13:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR071619WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 17 04:42:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	136967	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	142419	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	69692	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	60926	4.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.40%
7) Chloroethane-d5	1.67	69	55669	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.26	63	106632	4.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.00%
20) 2-Butanone-d5	4.18	46	123514	47.52	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.04%
24) Chloroform-d	4.62	84	93299	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
26) 1,2-Dichloroethane-d4	5.29	65	49331	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
32) Benzene-d6	5.31	84	183905	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.31	67	57913	4.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.80%
41) Toluene-d8	7.55	98	172177	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
43) trans-1,3-Dichloropropene-	7.84	79	23964	4.74	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.80%
46) 2-Hexanone-d5	8.30	63	97773	47.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.14%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	47344	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	11.85	152	62159	4.58	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.62	94	19067	2.040	ug/L	94
12) 1,1-Dichloroethene	2.27	96	25562	2.272	ug/L	# 66
13) Acetone	2.33	43	176376	77.500	ug/L	83
14) Carbon disulfide	2.46	76	300696	8.253	ug/L	100
15) Methyl Acetate	2.61	43	209894	36.927	ug/L	99
16) Methylene chloride	2.68	84	67491	4.919	ug/L	94
17) Methyl tert-butyl Ether	2.99	73	327289	11.105	ug/L	99
21) 2-Butanone	4.27	43	109153	41.731	ug/L	97
22) cis-1,2-Dichloroethene	4.20	96	66326	6.314	ug/L	95
27) 1,2-Dichloroethane	5.38	62	64507	5.242	ug/L	99
30) Cyclohexane	4.97	56	170520	11.543	ug/L	99
33) Benzene	5.36	78	209326	5.190	ug/L	100
34) Trichloroethene	6.16	95	37804	3.542	ug/L	97
35) Methylcyclohexane	6.39	83	357111	22.207	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	179752	28.761	ug/L	98
42) Toluene	7.62	91	729848	16.857	ug/L	99
47) Tetrachloroethene	8.21	164	38945	4.554	ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 17 04:42:24 2019
Response via : Initial Calibration

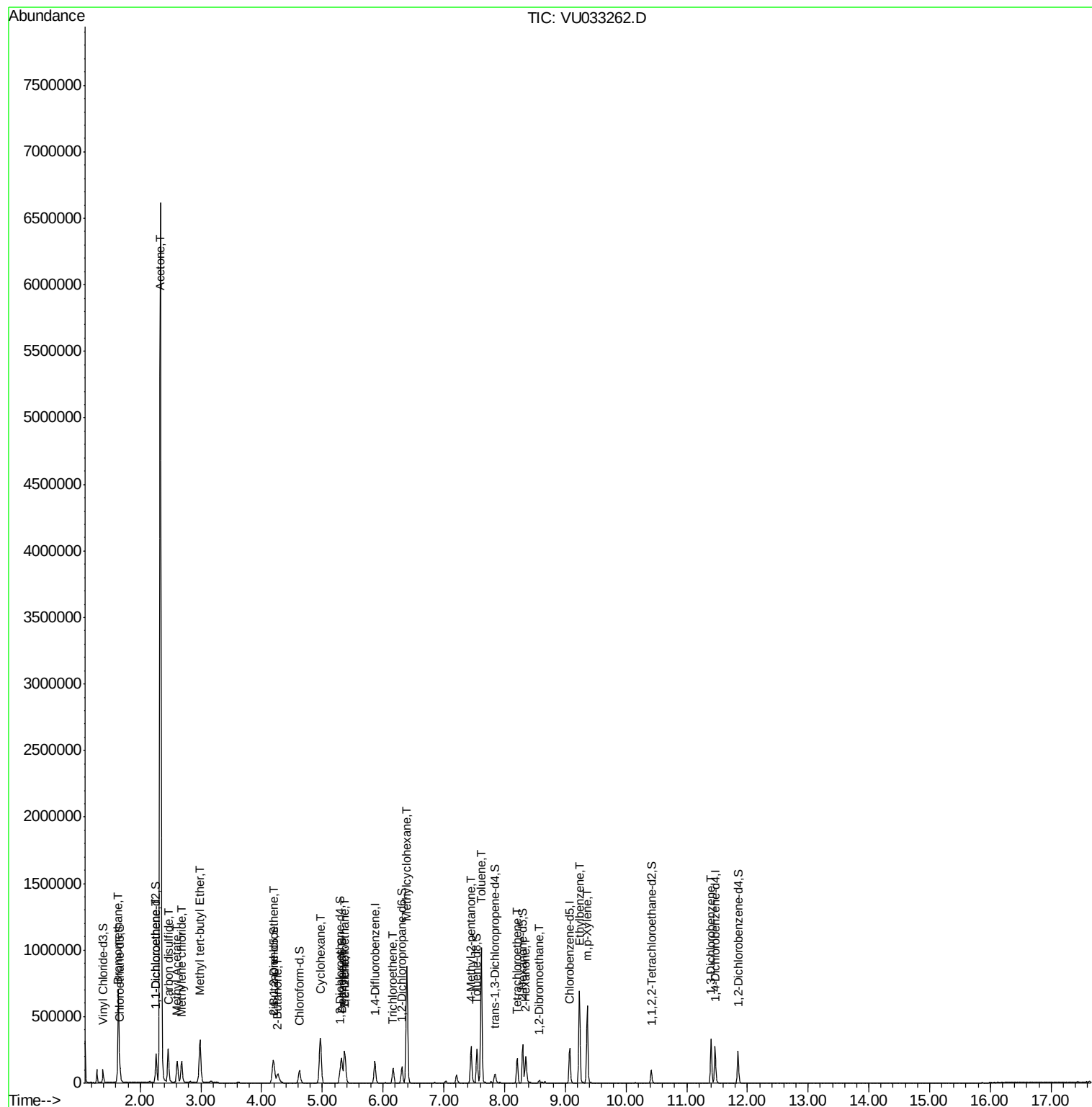
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.35	43	126057	27.576	ug/L	99
50) 1,2-Dibromoethane	8.57	107	14687	1.962	ug/L	98
52) Ethylbenzene	9.23	91	470754	10.184	ug/L	100
53) m,p-Xylene	9.36	106	157698	9.031	ug/L	95
62) 1,3-Dichlorobenzene	11.40	146	132784	6.376	ug/L	98

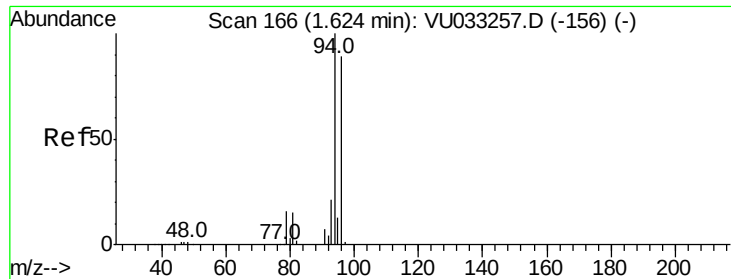
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 2.040 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU033262.D

Acq: 16 Jul 2019 14:26

Instrument :

MSVOA_U

ClientSampled :

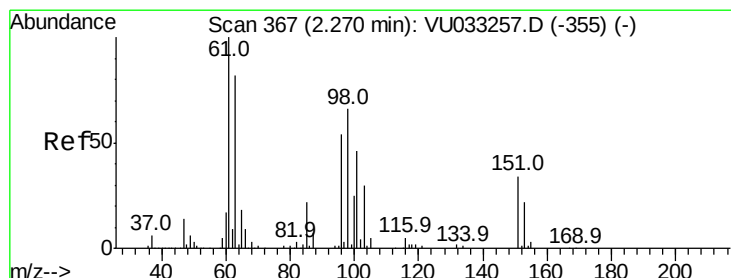
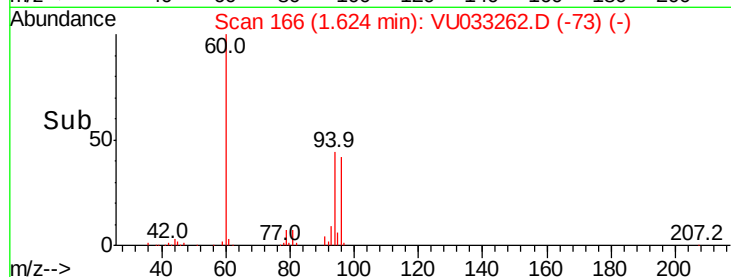
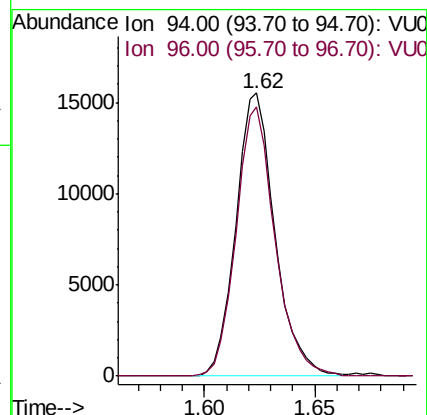
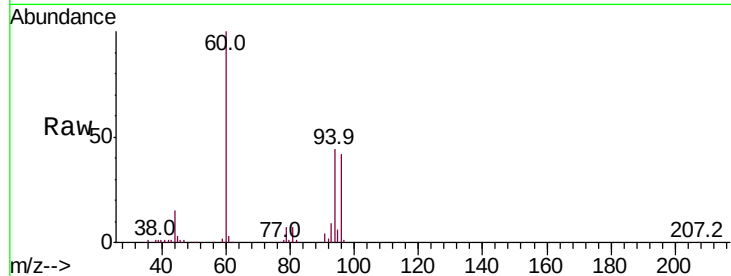
A52T8

Tot Ion: 94 Resp: 19067

Ion Ratio Lower Upper

94 100

96 94.9 62.4 116.0



#12

1,1-Dichloroethene

Concen: 2.272 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033262.D

Acq: 16 Jul 2019 14:26

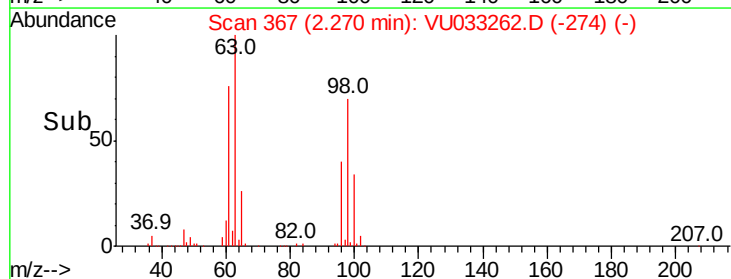
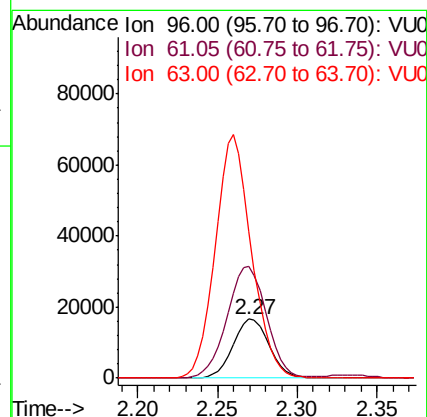
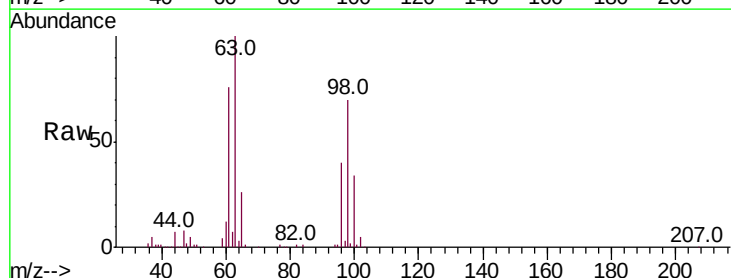
Tgt Ion: 96 Resp: 25562

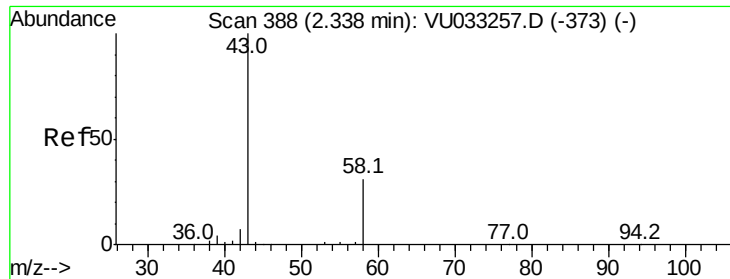
Ion Ratio Lower Upper

96 100

61 188.3 129.3 240.1

63 248.2 108.9 202.3#





#13

Acetone

Concen: 77.500 ug/L

RT: 2.33 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU033262.D

Acq: 16 Jul 2019 14:26

Instrument :

MSVOA_U

ClientSampleId :

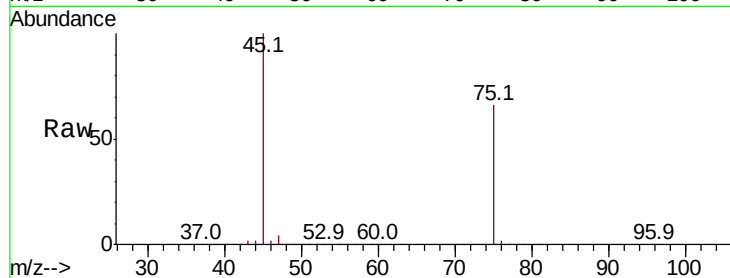
A52T8

Tot Ion: 43 Resp: 176376

Ion Ratio Lower Upper

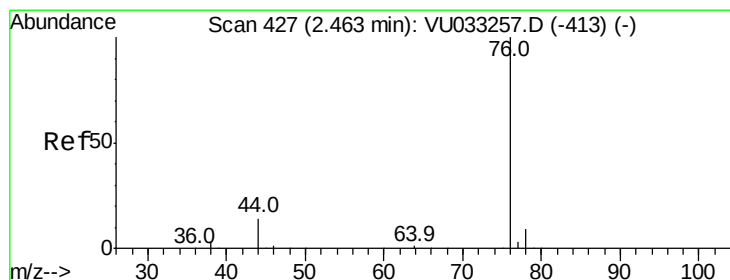
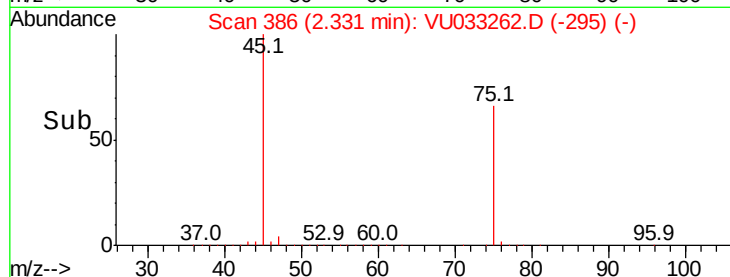
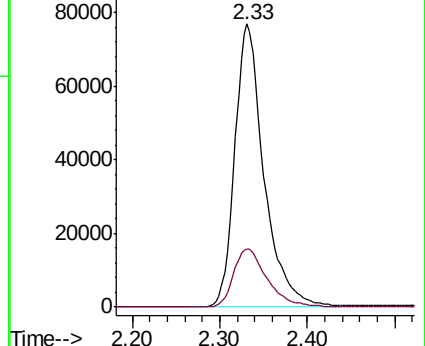
43 100

58 23.8 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU033257.D (-373) (-)

Ion 58.05 (57.75 to 58.75): VU033257.D (-373) (-)



#14

Carbon disulfide

Concen: 8.253 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033262.D

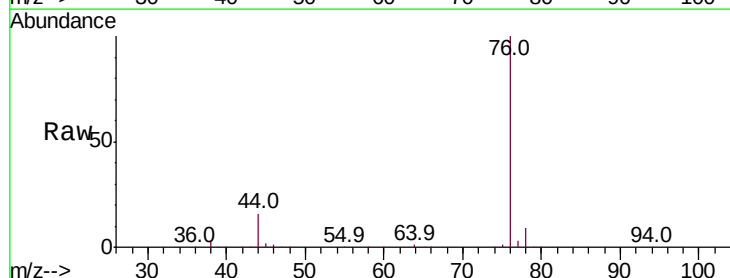
Acq: 16 Jul 2019 14:26

Tgt Ion: 76 Resp: 300696

Ion Ratio Lower Upper

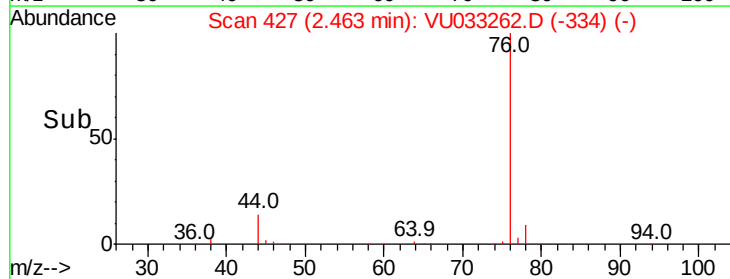
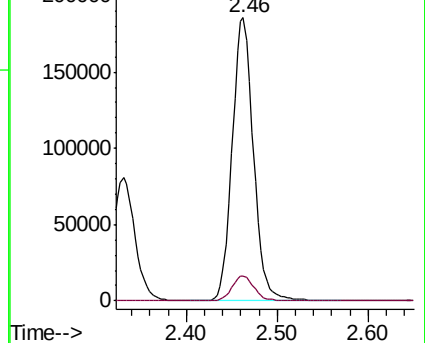
76 100

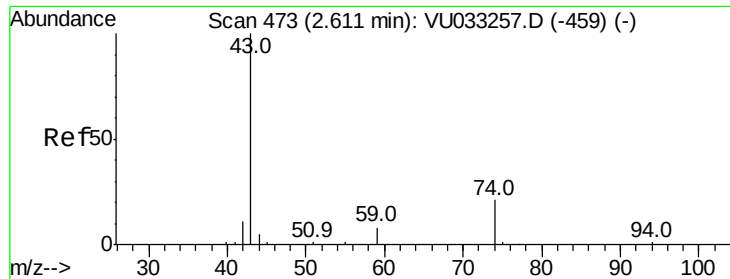
78 8.7 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU033257.D (-413) (-)

Ion 78.00 (77.70 to 78.70): VU033257.D (-413) (-)

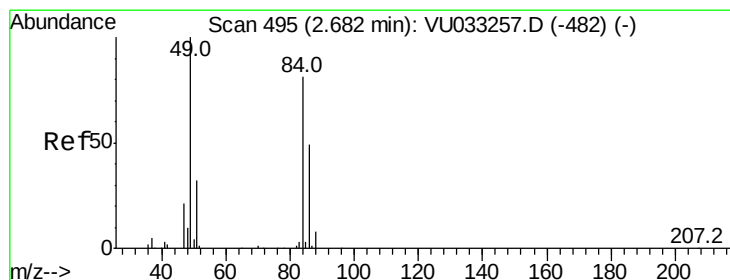
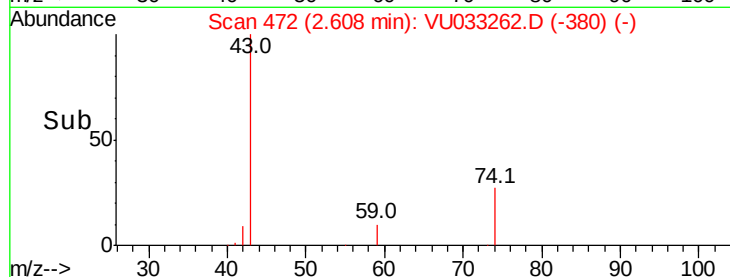
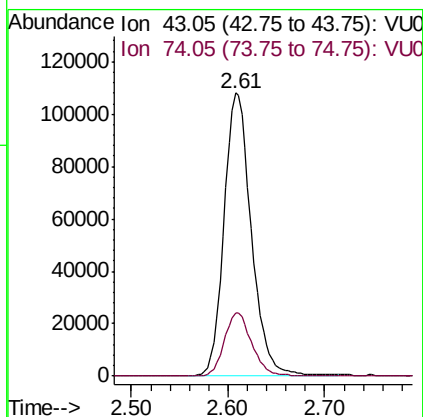
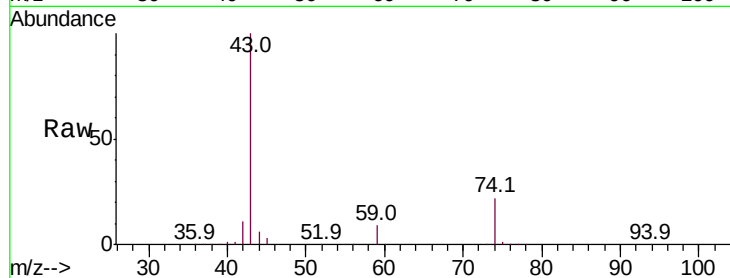




#15
Methvl Acetate
Concen: 36.927 ug/L
RT: 2.61 min Scan# 472
Delta R.T. -0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

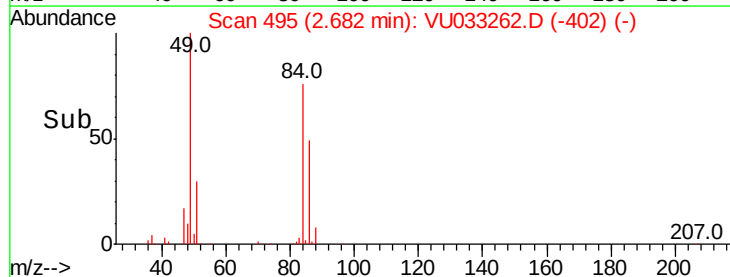
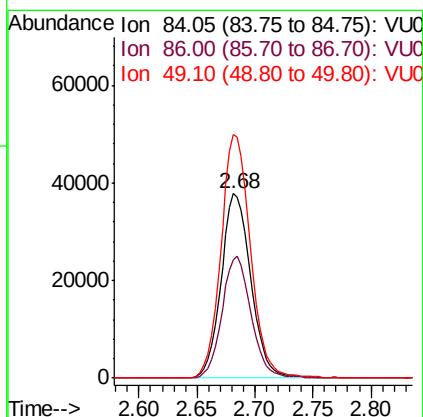
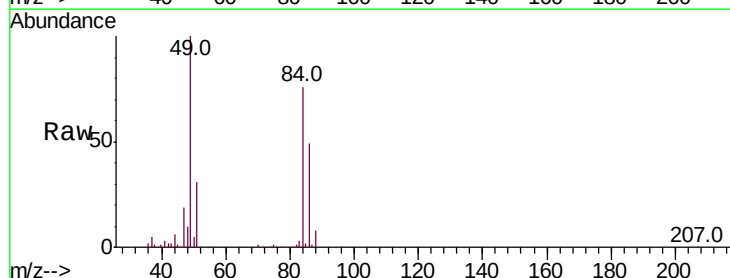
Instrument :
MSVOA_U
ClientSampleId :
A52T8

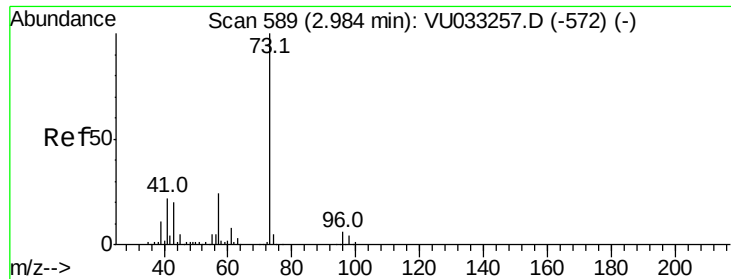
Tot Ion: 43 Resp: 209894
Ion Ratio Lower Upper
43 100
74 23.0 17.8 26.8



#16
Methylene chloride
Concen: 4.919 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

Tgt Ion: 84 Resp: 67491
Ion Ratio Lower Upper
84 100
86 64.5 42.5 78.9
49 132.2 86.9 161.3

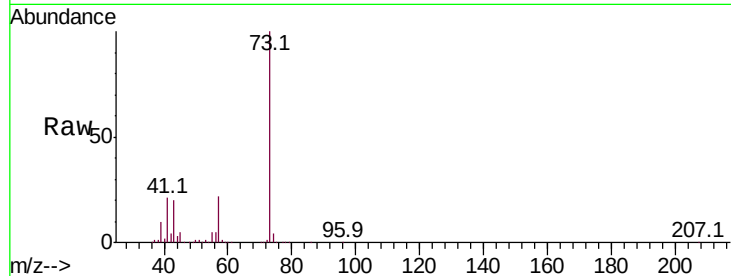




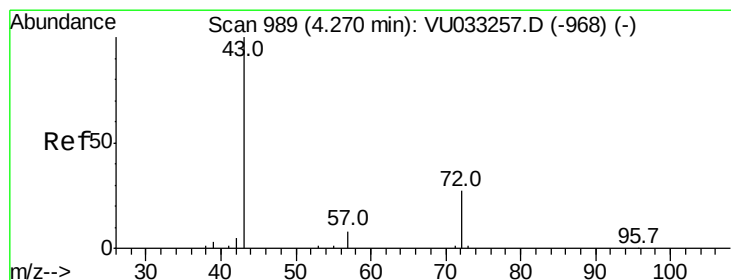
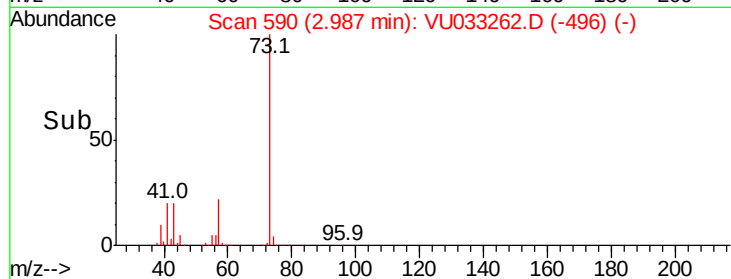
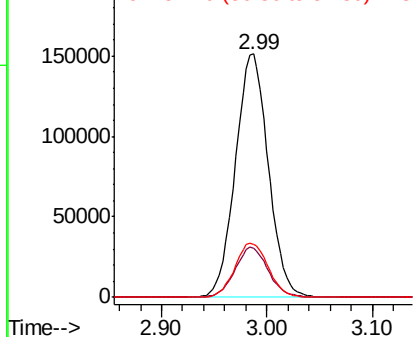
#17
Methyl tert-butyl Ether
Concen: 11.105 ug/L
RT: 2.99 min Scan# 590
Delta R.T. 0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

Instrument :
MSVOA_U
ClientSampleId :
A52T8

Tot Ion: 73 Resp: 327289
Ion Ratio Lower Upper
73 100
43 20.6 16.3 24.5
57 22.8 18.6 28.0

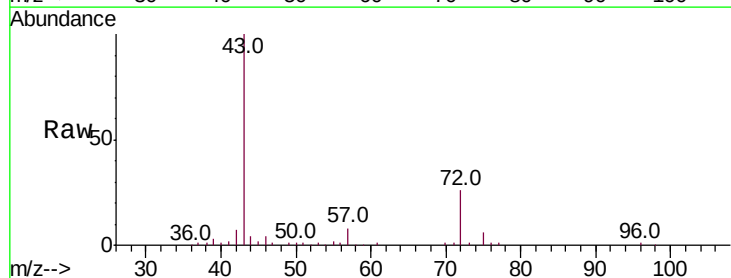


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

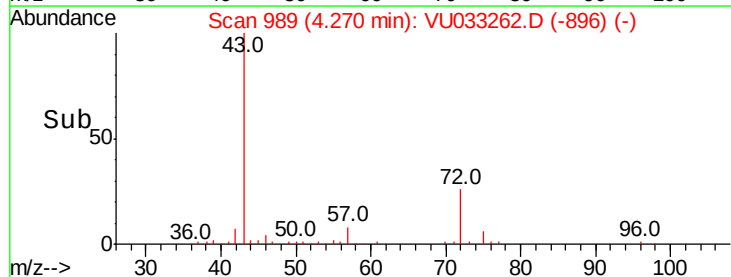
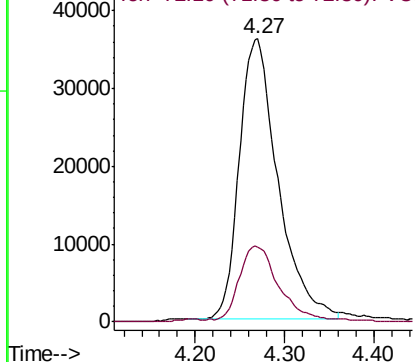


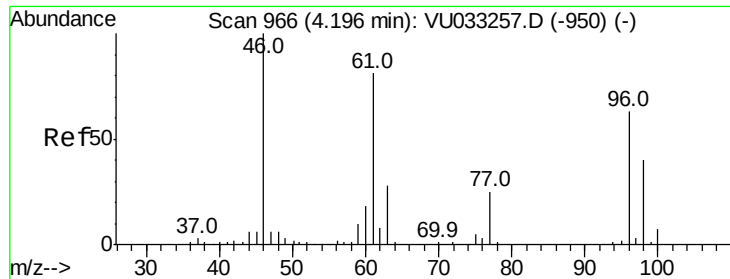
#21
2-Butanone
Concen: 41.731 ug/L
RT: 4.27 min Scan# 989
Delta R.T. -0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

Tgt Ion: 43 Resp: 109153
Ion Ratio Lower Upper
43 100
72 28.5 13.5 40.4



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



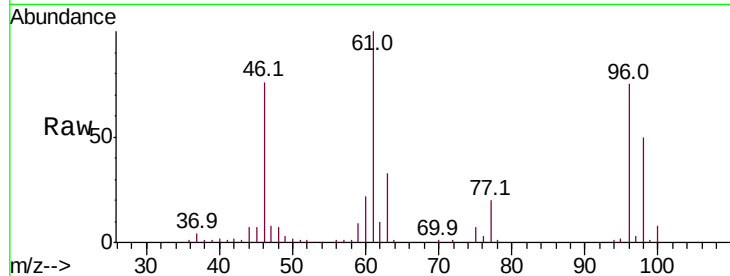


#22

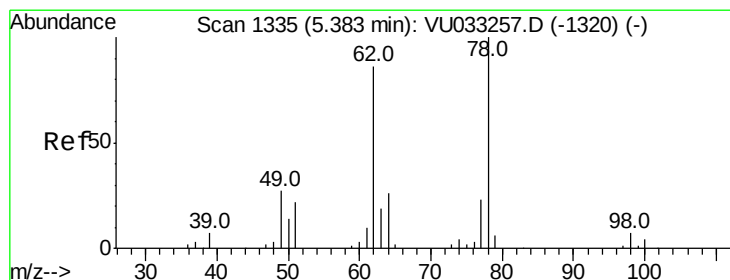
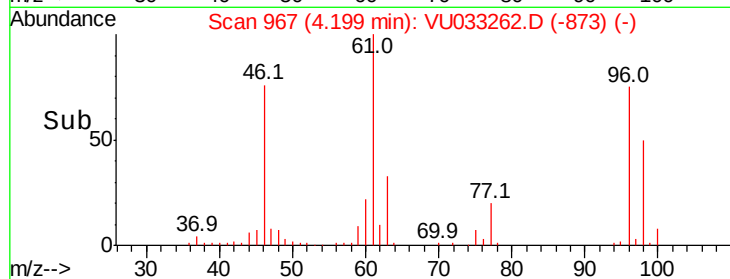
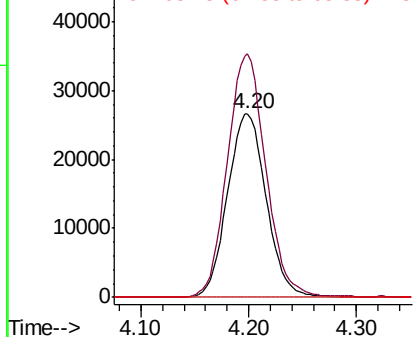
cis-1,2-Dichloroethene
Concen: 6.314 ug/L
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

Instrument :
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ClientSampleId :
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Tot Ion: 96 Resp: 66326
Ion Ratio Lower Upper
96 100
61 132.6 89.2 165.6
68 0.0 0.0 0.0



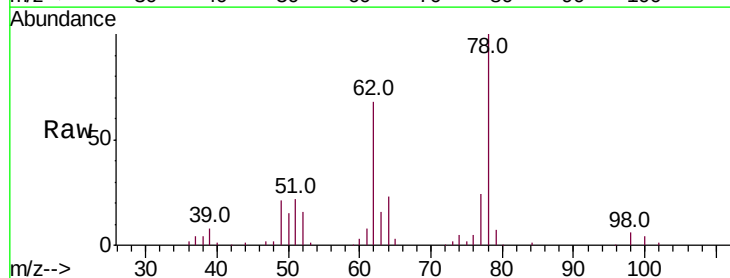
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



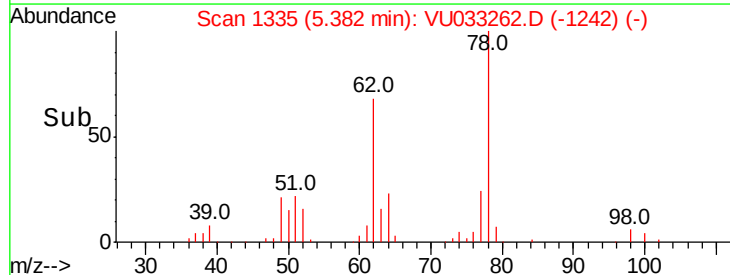
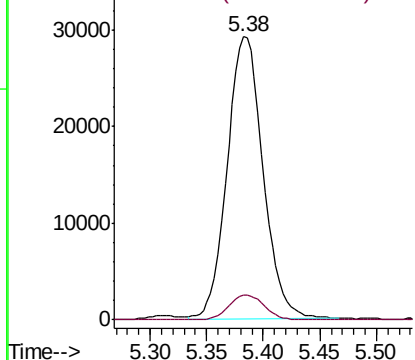
#27

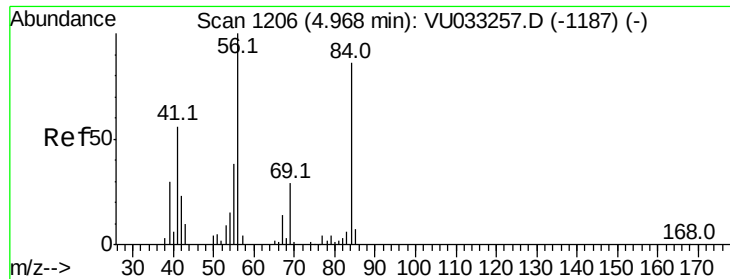
1,2-Dichloroethane
Concen: 5.242 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

Tgt Ion: 62 Resp: 64507
Ion Ratio Lower Upper
62 100
98 8.8 6.6 10.0



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 98.05 (97.75 to 98.75): VU0

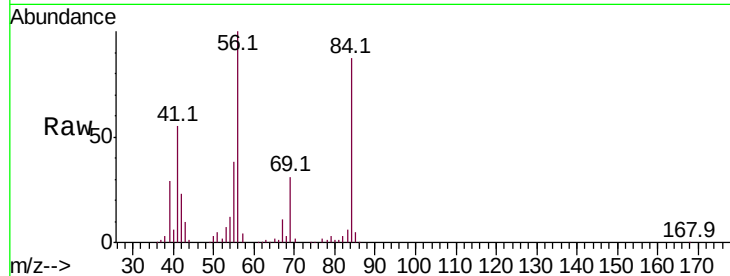




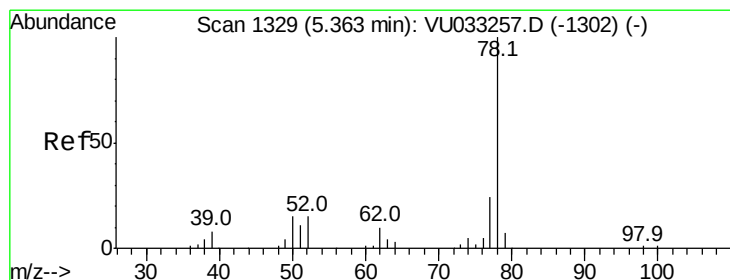
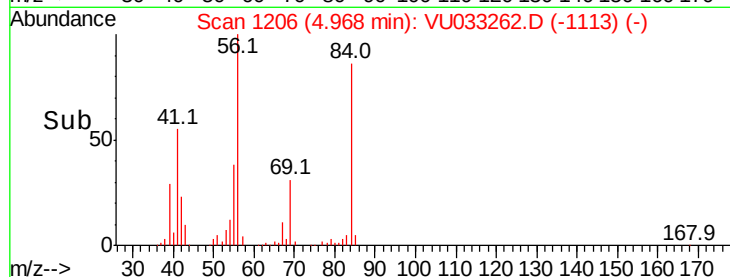
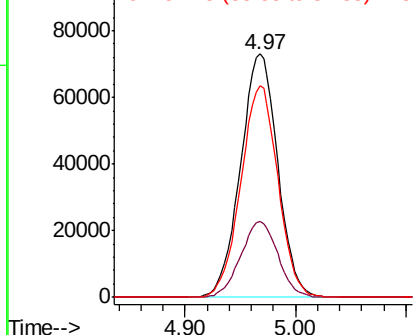
#30
Cyclohexane
Concen: 11.543 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

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A52T8

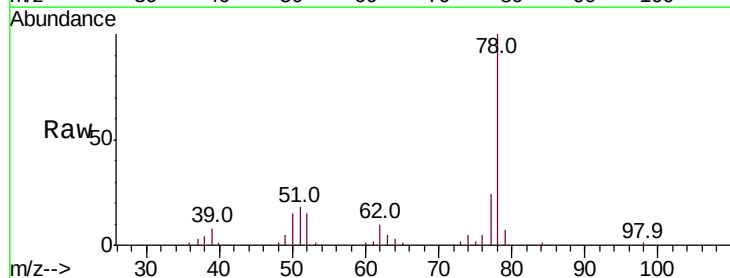
Tot Ion: 56 Resp: 170520
Ion Ratio Lower Upper
56 100
69 31.1 23.9 35.9
84 86.9 69.5 104.3



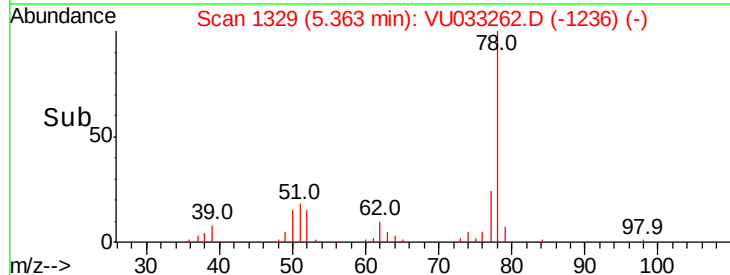
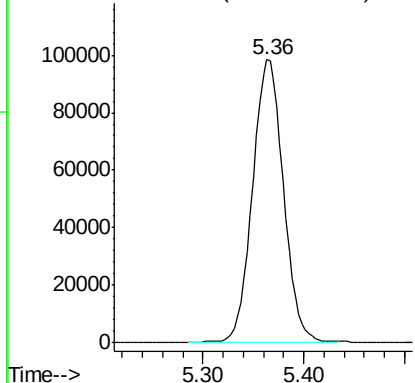
Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

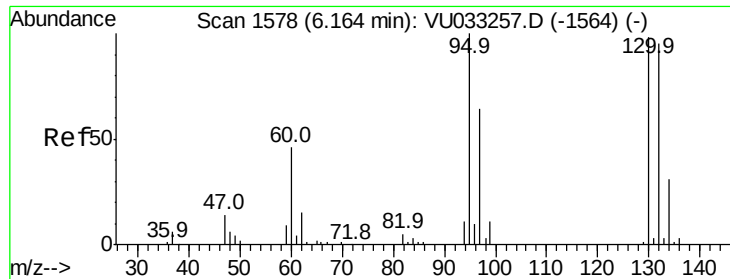


#33
Benzene
Concen: 5.190 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26
Tgt Ion: 78 Resp: 209326



Abundance Ion 78.10 (77.80 to 78.80): VU0



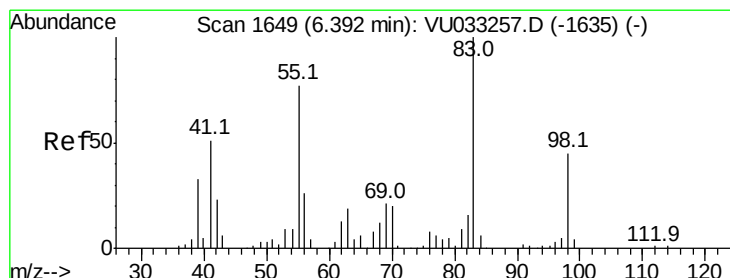
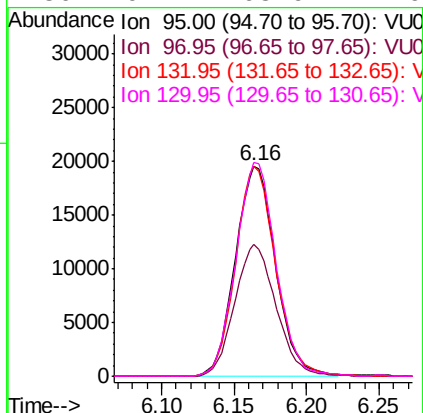
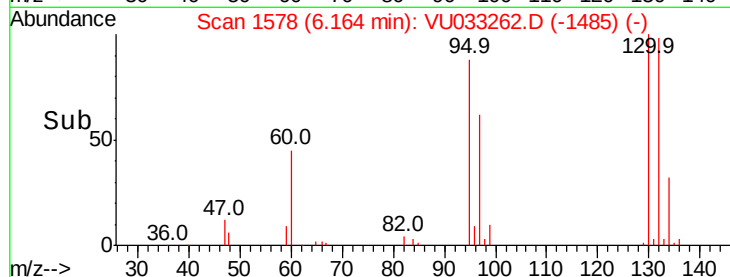
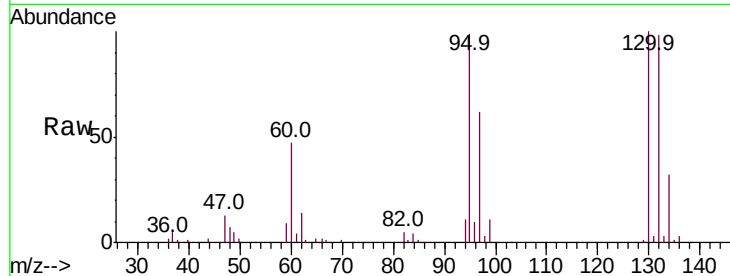


#34
 Trichloroethene
 Concen: 3.542 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033262.D
 Acq: 16 Jul 2019 14:26

Instrument :
 MSVOA_U
 ClientSampleId :
 A52T8

Tot Ion: 95 Resp: 37804

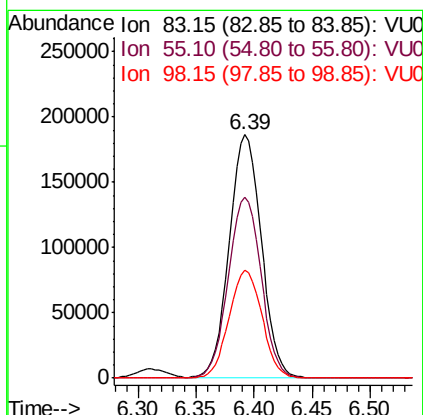
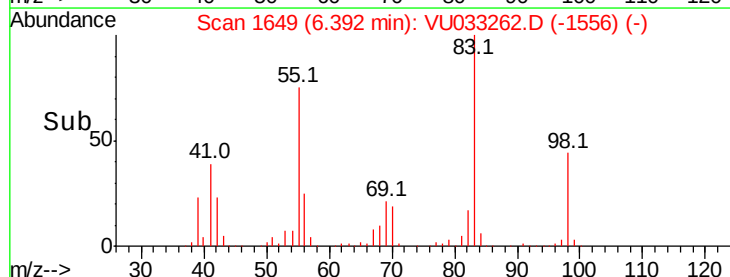
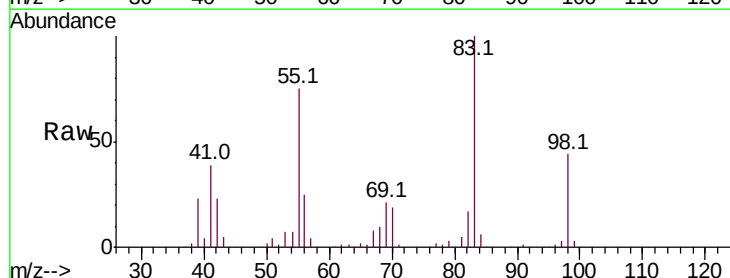
Ion	Ratio	Lower	Upper
95	100		
97	62.9	44.5	82.7
132	99.8	66.6	123.8
130	101.4	68.9	127.9

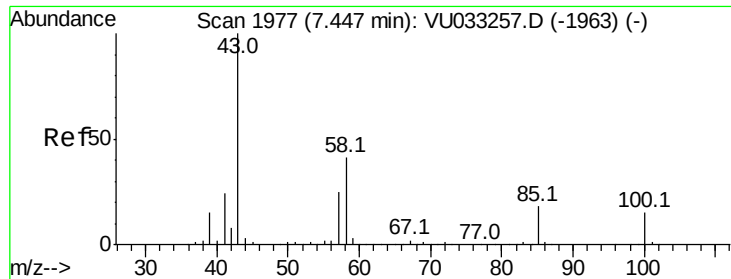


#35
 Methylcyclohexane
 Concen: 22.207 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU033262.D
 Acq: 16 Jul 2019 14:26

Tgt Ion: 83 Resp: 357111

Ion	Ratio	Lower	Upper
83	100		
55	76.5	62.6	94.0
98	45.5	36.2	54.2





#40

4-Methyl-2-pentanone

Concen: 28.761 ug/L

RT: 7.45 min Scan# 1978

Delta R.T. 0.00 min

Lab File: VU033262.D

Acq: 16 Jul 2019 14:26

Instrument :

MSVOA_U

ClientSampleId :

A52T8

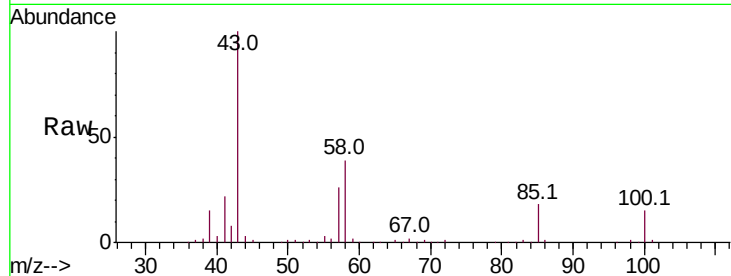
Tot Ion: 43 Resp: 179752

Ion Ratio Lower Upper

43 100

58 39.1 32.4 48.6

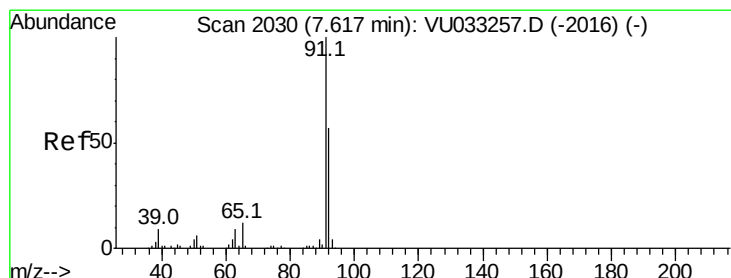
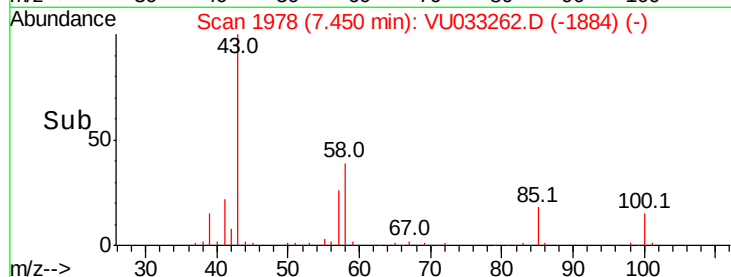
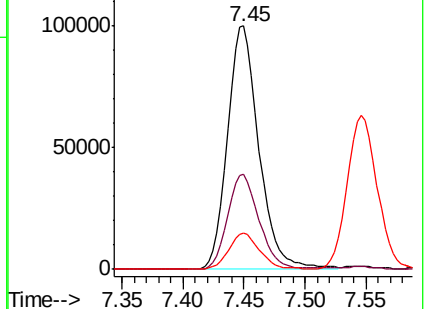
100 14.7 11.9 17.9



Abundance Ion 43.05 (42.75 to 43.75): VU033257.D (-1963) (-)

Ion 58.05 (57.75 to 58.75): VU033257.D (-1963) (-)

Ion 100.15 (99.85 to 100.85): VU033257.D (-1963) (-)



#42

Toluene

Concen: 16.857 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033262.D

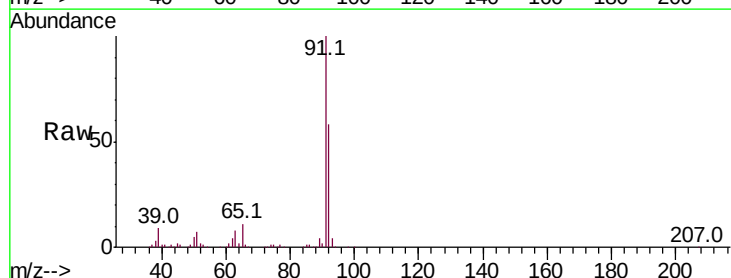
Acq: 16 Jul 2019 14:26

Tgt Ion: 91 Resp: 729848

Ion Ratio Lower Upper

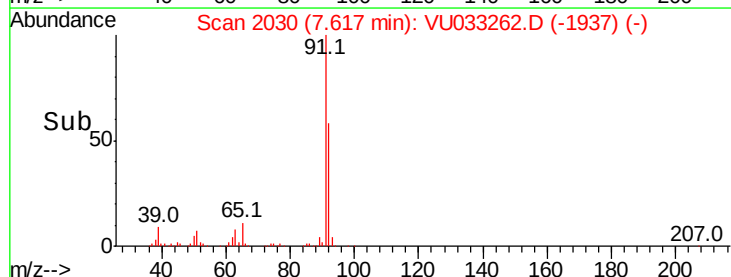
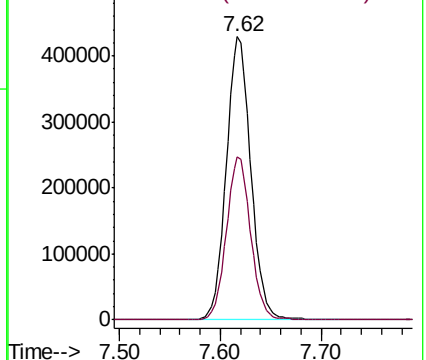
91 100

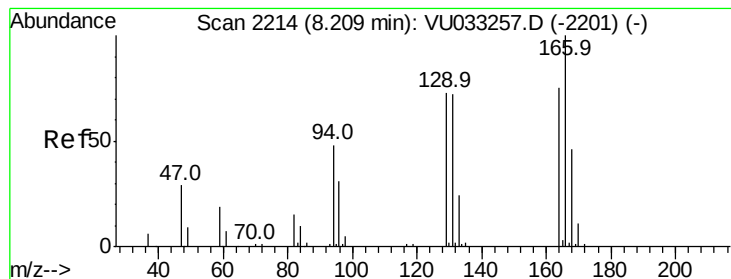
92 57.5 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU033257.D (-2016) (-)

Ion 92.15 (91.85 to 92.85): VU033257.D (-2016) (-)





#47

Tetrachloroethene

Concen: 4.554 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033262.D

Acq: 16 Jul 2019 14:26

Instrument :

MSVOA_U

ClientSampleId :

A52T8

Tot Ion:164 Resp: 38945

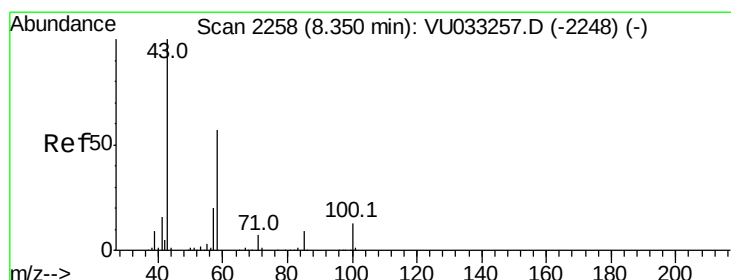
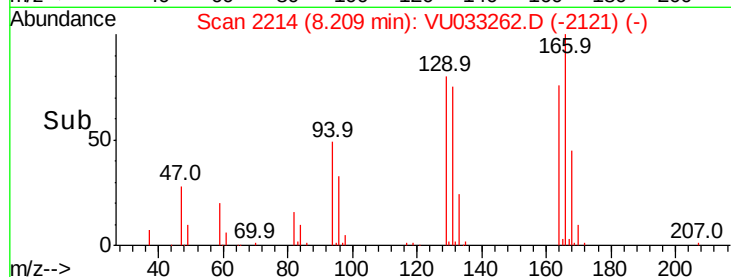
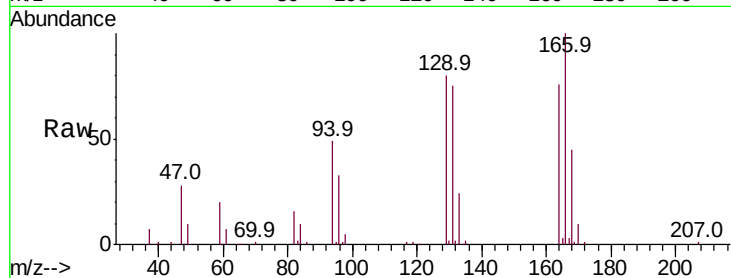
Ion Ratio Lower Upper

164 100

129 104.5 68.5 127.1

131 98.1 67.3 124.9

166 131.4 93.1 172.9



#48

2-Hexanone

Concen: 27.576 ug/L

RT: 8.35 min Scan# 2258

Delta R.T. -0.00 min

Lab File: VU033262.D

Acq: 16 Jul 2019 14:26

Tgt Ion: 43 Resp: 126057

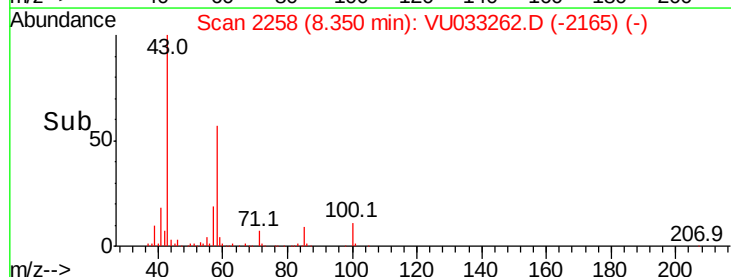
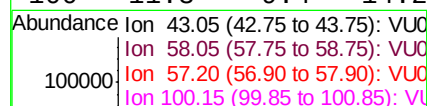
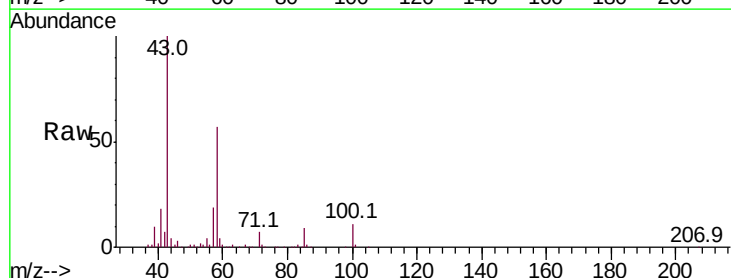
Ion Ratio Lower Upper

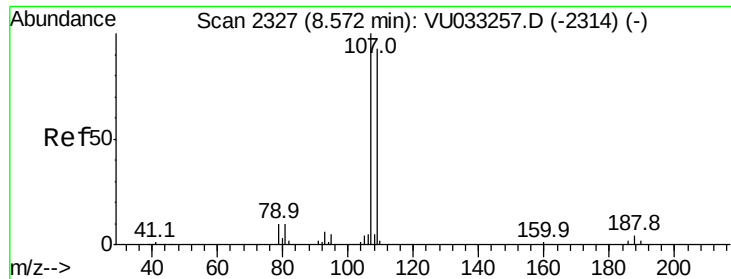
43 100

58 55.5 44.1 66.1

57 19.0 15.8 23.8

100 11.3 9.4 14.2





#50

1,2-Dibromoethane

Concen: 1.962 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VU033262.D

Acq: 16 Jul 2019 14:26

Instrument :

MSVOA_U

ClientSampled :

A52T8

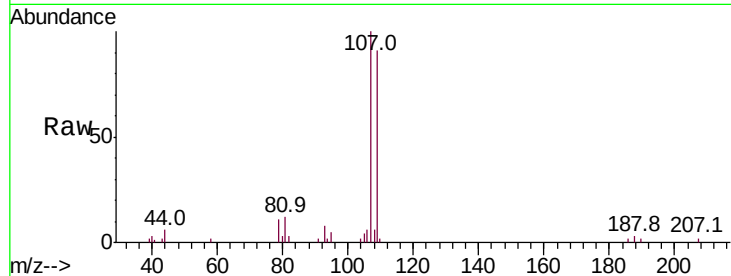
Tot Ion:107 Resp: 14687

Ion Ratio Lower Upper

107 100

109 90.5 64.8 120.4

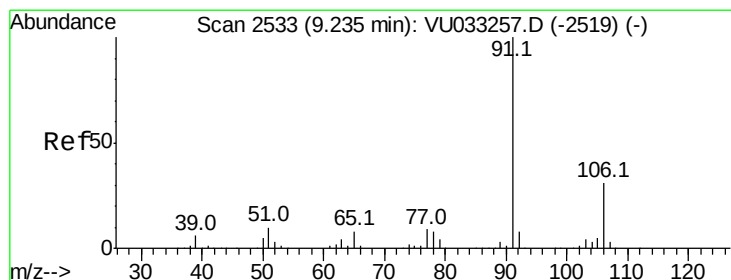
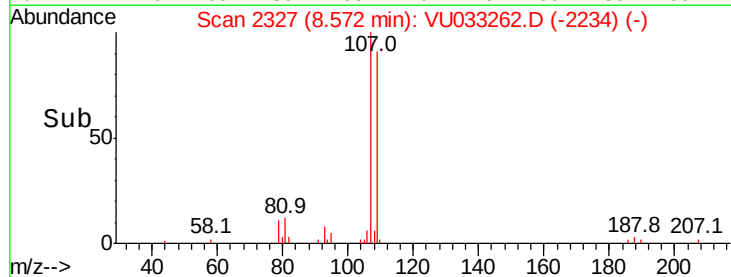
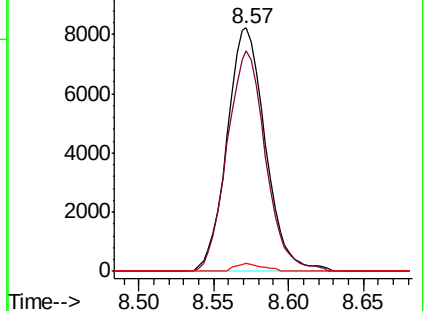
188 3.1 3.0 4.6



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



#52

Ethylbenzene

Concen: 10.184 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. -0.00 min

Lab File: VU033262.D

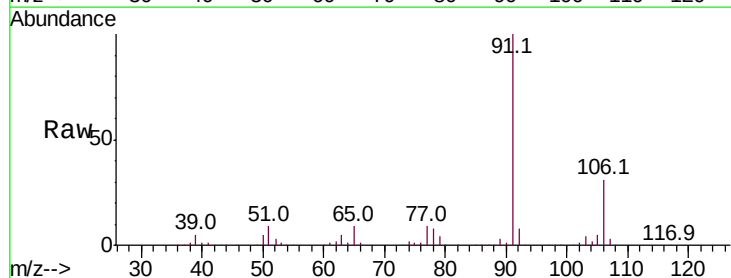
Acq: 16 Jul 2019 14:26

Tgt Ion: 91 Resp: 470754

Ion Ratio Lower Upper

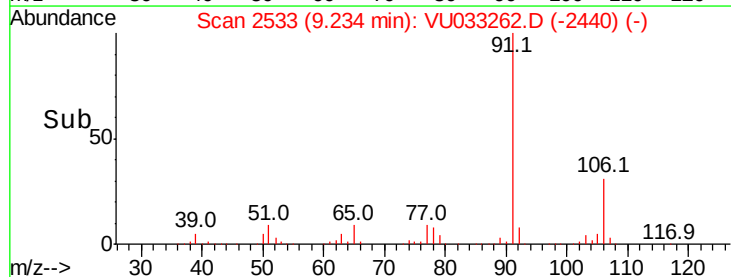
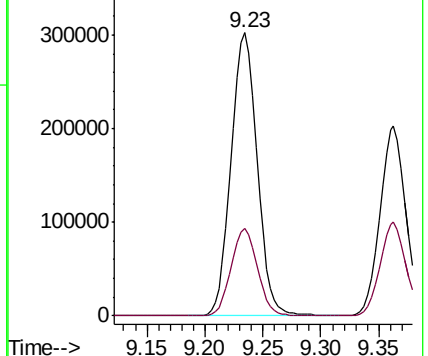
91 100

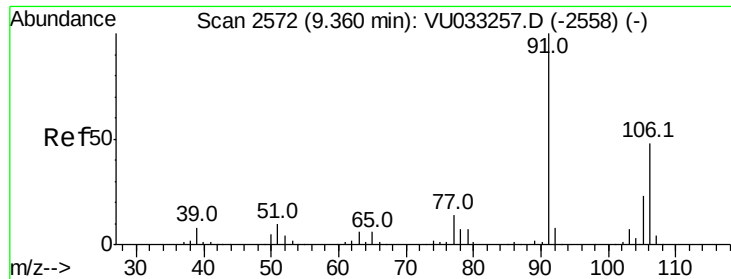
106 30.7 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

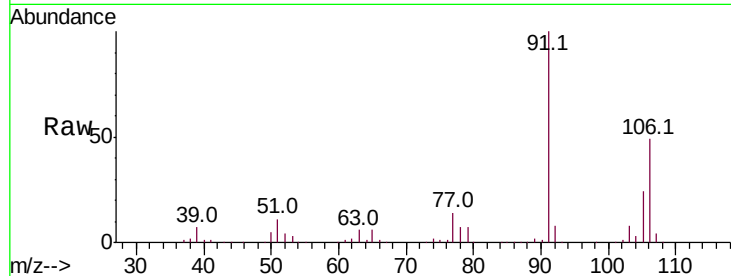




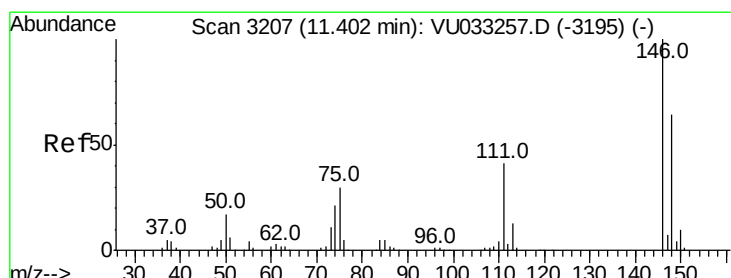
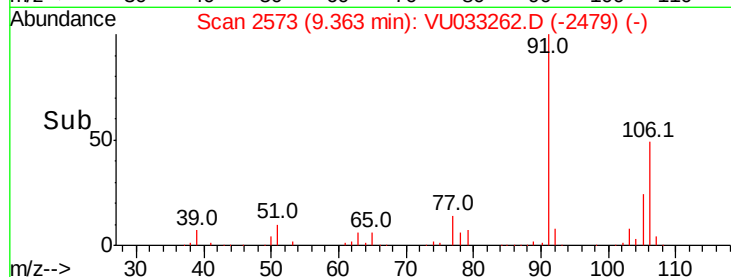
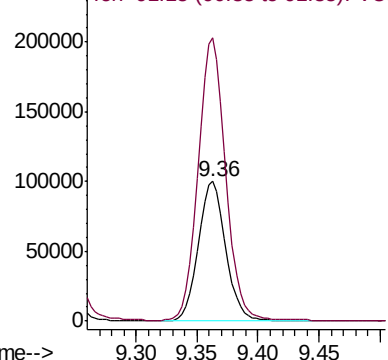
#53
m,p-Xylene
Concen: 9.031 ug/L
RT: 9.36 min Scan# 2573
Delta R.T. 0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

Instrument :
MSVOA_U
ClientSampleId :
A52T8

Tot Ion:106 Resp: 157698
Ion Ratio Lower Upper
106 100
91 202.5 147.6 274.0

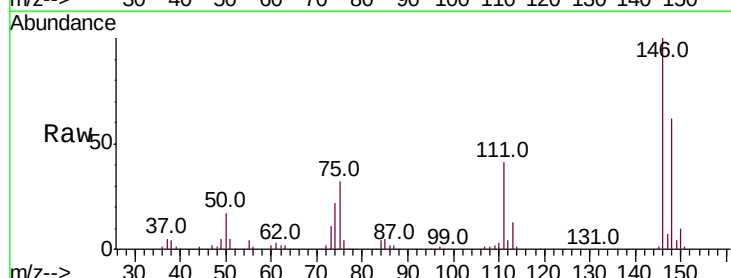


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0



#62
1,3-Dichlorobenzene
Concen: 6.376 ug/L
RT: 11.40 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU033262.D
Acq: 16 Jul 2019 14:26

Tgt Ion:146 Resp: 132784
Ion Ratio Lower Upper
146 100
111 41.3 28.6 53.2
148 62.1 45.0 83.6



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

