

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071719\
 Data File : VU033279.D
 Acq On : 17 Jul 2019 09:56
 Operator : JC/SP
 Sample : K3772-01DL 4X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A52T8DL

Quant Time: Jul 18 08:23:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR071619WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 18 08:01:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	128525	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	135493	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	59755	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	58388	4.51	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.20%
7) Chloroethane-d5	1.67	69	54309	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.60%
11) 1,1-Dichloroethene-d2	2.26	63	94780	3.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.80%
20) 2-Butanone-d5	4.17	46	122520	50.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.46%
24) Chloroform-d	4.62	84	94857	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
26) 1,2-Dichloroethane-d4	5.29	65	52094	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
32) Benzene-d6	5.32	84	181363	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
36) 1,2-Dichloropropane-d6	6.31	67	58530	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.40%
41) Toluene-d8	7.55	98	160618	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	7.84	79	22646	4.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.20%
46) 2-Hexanone-d5	8.30	63	97355	49.26	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.52%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	49781	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	11.85	152	59204	5.09	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.62	94	5876	0.670	ug/L	93
12) 1,1-Dichloroethene	2.27	96	6948	0.658	ug/L	# 1
13) Acetone	2.32	43	38677	18.111	ug/L	82
14) Carbon disulfide	2.46	76	76257	2.231	ug/L	100
15) Methyl Acetate	2.60	43	52496	9.842	ug/L	98
16) Methylene chloride	2.68	84	18089	1.405	ug/L	93
17) Methyl tert-butyl Ether	2.99	73	81759	2.956	ug/L	99
21) 2-Butanone	4.26	43	24414	9.947	ug/L	96
22) cis-1,2-Dichloroethene	4.20	96	16847	1.709	ug/L	97
27) 1,2-Dichloroethane	5.39	62	16910	1.464	ug/L	98
30) Cyclohexane	4.97	56	35562	2.530	ug/L	99
33) Benzene	5.37	78	51554	1.344	ug/L	100
34) Trichloroethene	6.16	95	9563	0.942	ug/L	96
35) Methylcyclohexane	6.39	83	73118	4.779	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	38419	6.461	ug/L	98
42) Toluene	7.62	91	166831	4.050	ug/L	100
47) Tetrachloroethene	8.21	164	9333	1.147	ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 18 08:01:21 2019
Response via : Initial Calibration

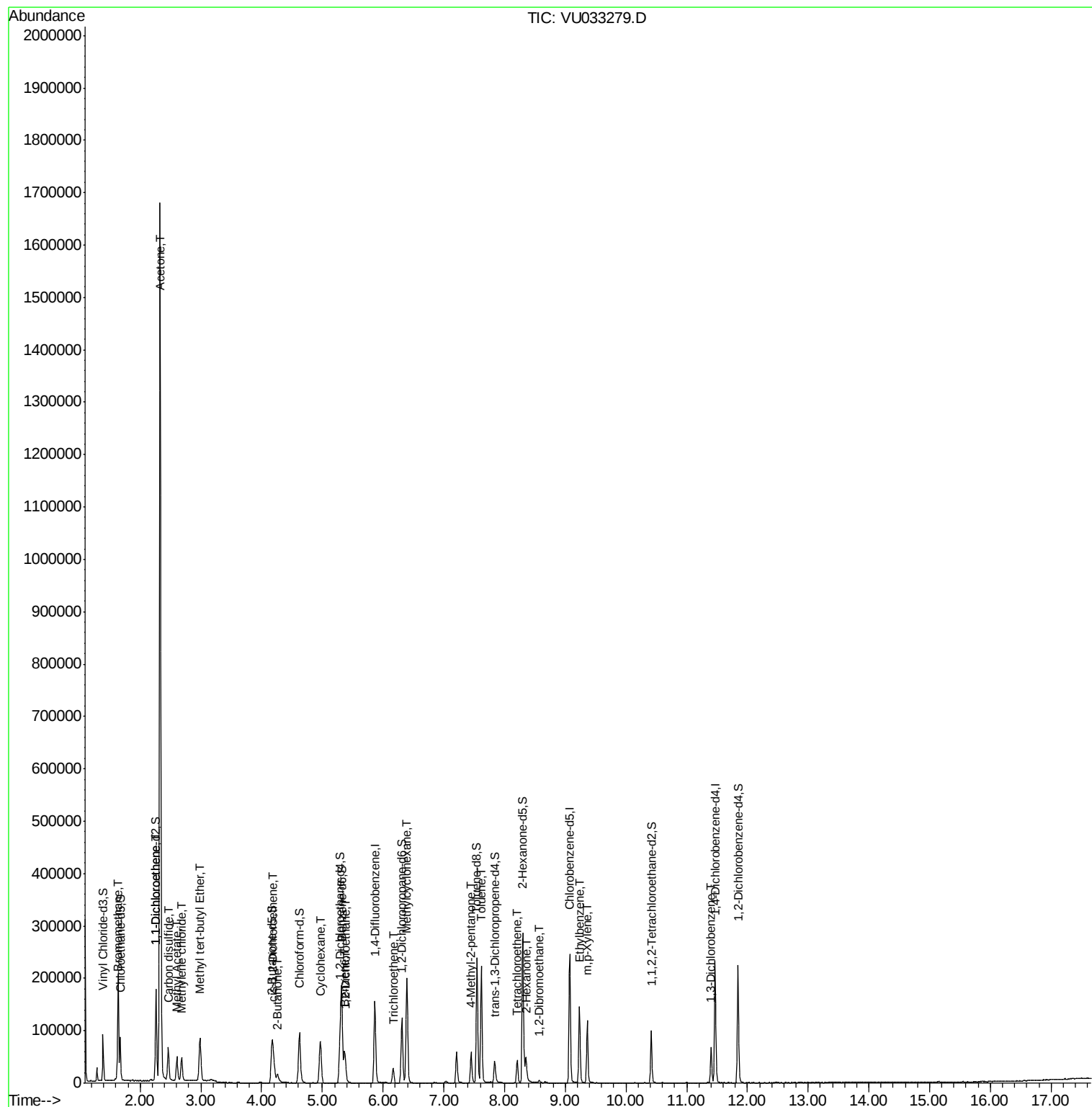
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.35	43	30677	7.054	ug/L	97
50) 1,2-Dibromoethane	8.58	107	3502	0.492	ug/L #	97
52) Ethylbenzene	9.23	91	97121	2.209	ug/L	100
53) m,p-Xylene	9.36	106	32562	1.960	ug/L	91
62) 1,3-Dichlorobenzene	11.40	146	27377	1.533	ug/L	98

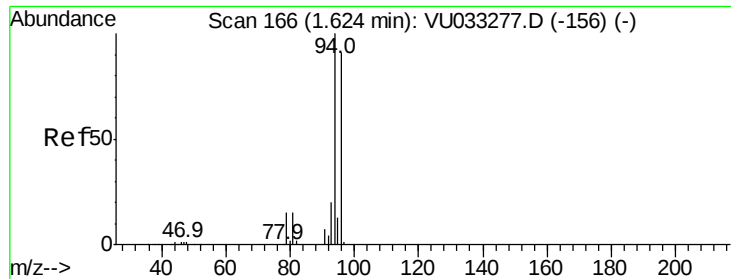
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 18 08:01:21 2019
Response via : Initial Calibration





#6

Bromomethane

Concen: 0.670 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033279.D

Acq: 17 Jul 2019 09:56

Instrument :

MSVOA_U

ClientSampled :

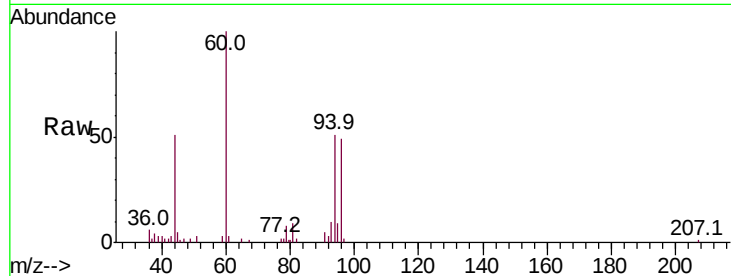
A52T8DL

Tot Ion: 94 Resp: 5876

Ion Ratio Lower Upper

94 100

96 96.1 62.4 116.0

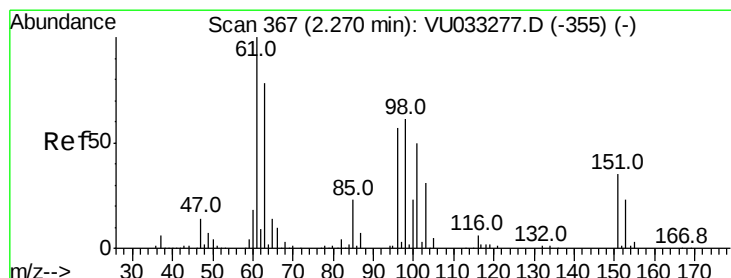
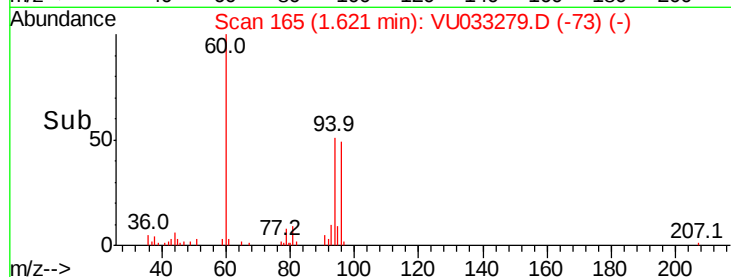


Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

Time-->



#12

1,1-Dichloroethene

Concen: 0.658 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033279.D

Acq: 17 Jul 2019 09:56

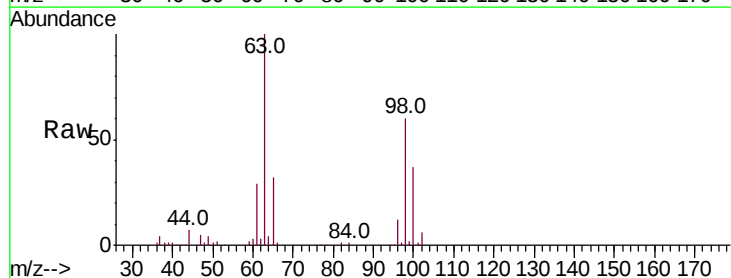
Tgt Ion: 96 Resp: 6948

Ion Ratio Lower Upper

96 100

61 246.3 129.3 240.1#

63 839.0 108.9 202.3#



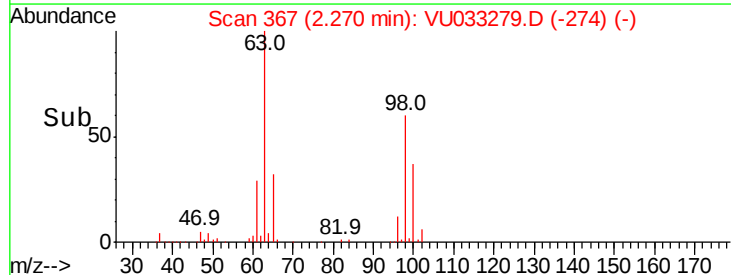
Abundance Ion 96.00 (95.70 to 96.70): VU0

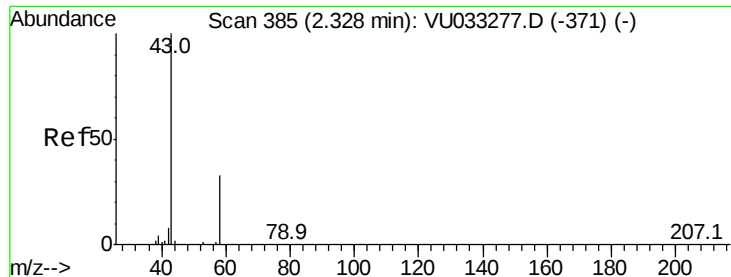
Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

2.27

Time-->





#13

Acetone

Concen: 18.111 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.01 min

Lab File: VU033279.D

Acq: 17 Jul 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

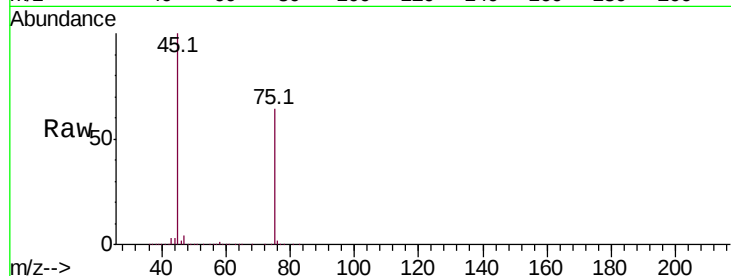
A52T8DL

Tot Ion: 43 Resp: 38677

Ion Ratio Lower Upper

43 100

58 23.3 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU033277.D (-371) (-)

Ion 58.05 (57.75 to 58.75): VU033279.D (-292) (-)

2.32

20000

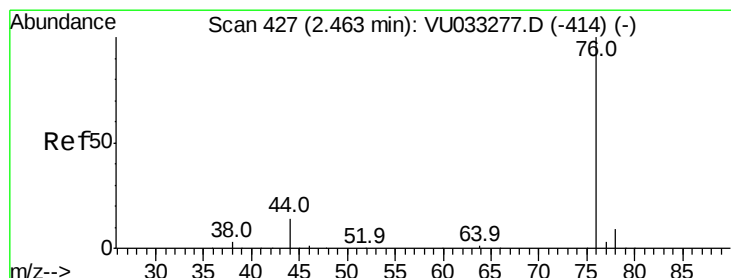
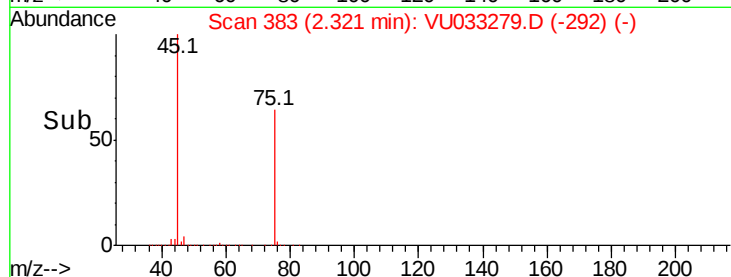
15000

10000

5000

0

Time--> 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 2.231 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033279.D

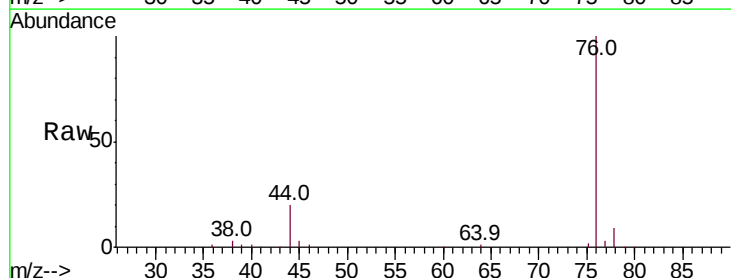
Acq: 17 Jul 2019 09:56

Tgt Ion: 76 Resp: 76257

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU033277.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033279.D (-334) (-)

2.46

50000

40000

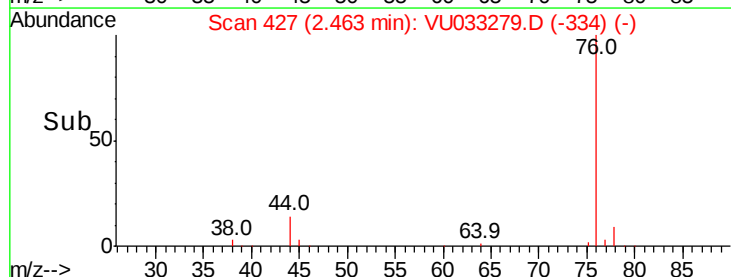
30000

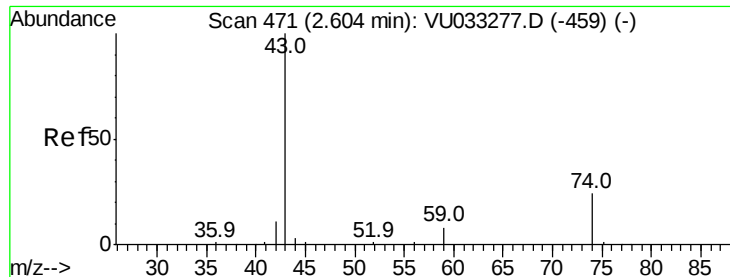
20000

10000

0

Time--> 2.40 2.50 2.60





#15

Methyl Acetate

Concen: 9.842 ug/L

RT: 2.60 min Scan# 471

Delta R.T. -0.00 min

Lab File: VU033279.D

Acq: 17 Jul 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

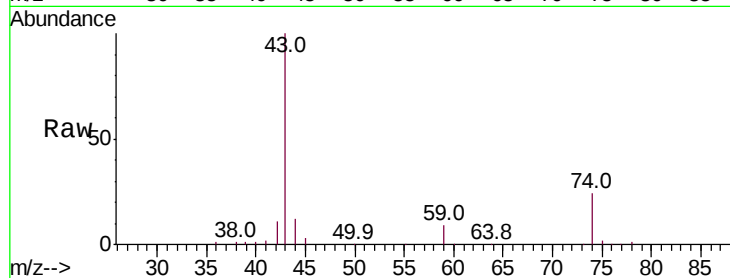
A52T8DL

Tot Ion: 43 Resp: 52496

Ion Ratio Lower Upper

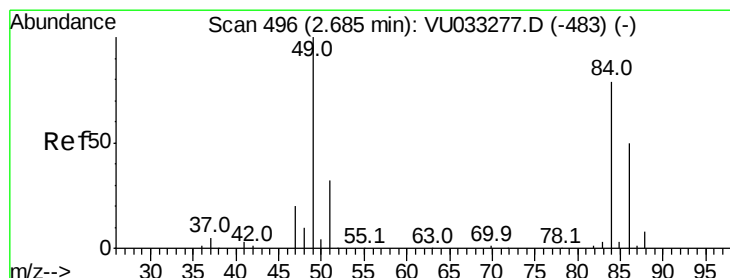
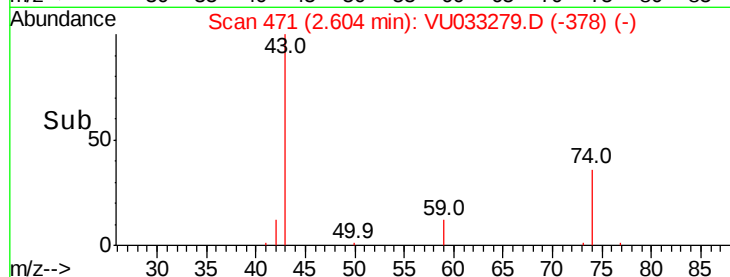
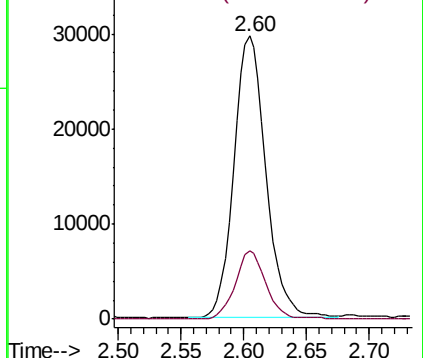
43 100

74 23.2 17.8 26.8



Abundance Ion 43.05 (42.75 to 43.75): VU033279.D (-459) (-)

Ion 74.05 (73.75 to 74.75): VU033279.D (-459) (-)



#16

Methylene chloride

Concen: 1.405 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU033279.D

Acq: 17 Jul 2019 09:56

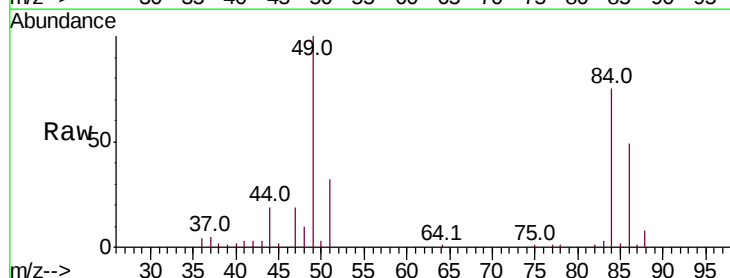
Tgt Ion: 84 Resp: 18089

Ion Ratio Lower Upper

84 100

86 65.0 42.5 78.9

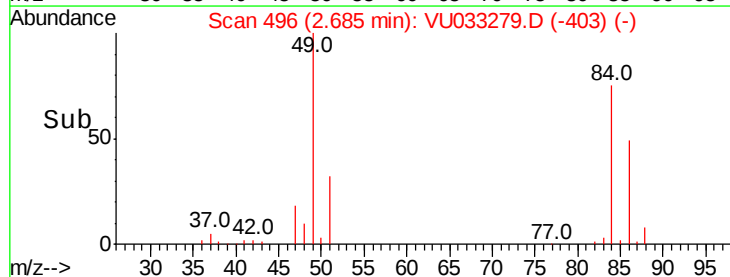
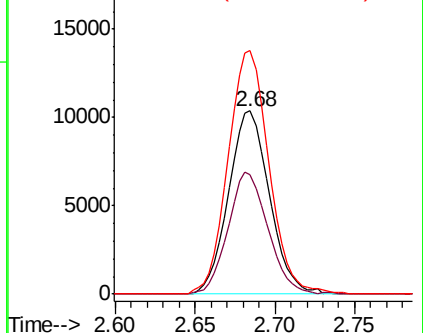
49 132.9 86.9 161.3

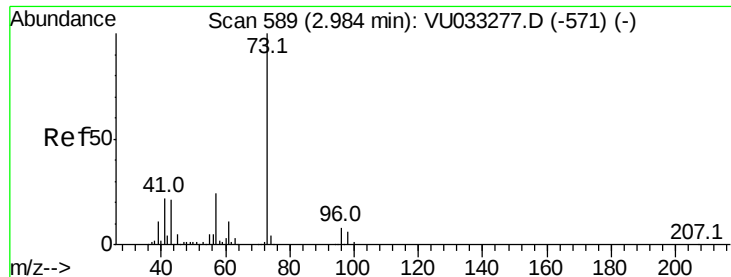


Abundance Ion 84.05 (83.75 to 84.75): VU033279.D (-483) (-)

Ion 86.00 (85.70 to 86.70): VU033279.D (-483) (-)

Ion 49.10 (48.80 to 49.80): VU033279.D (-483) (-)

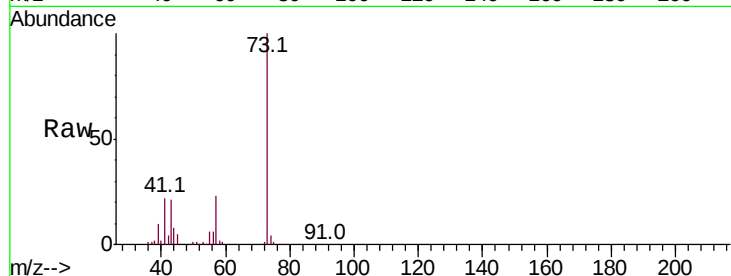




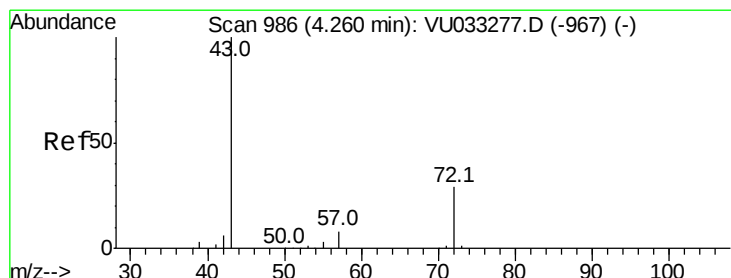
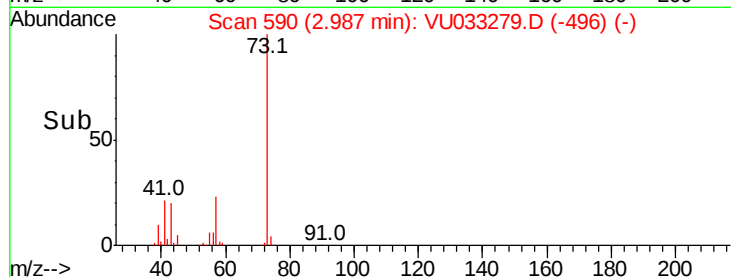
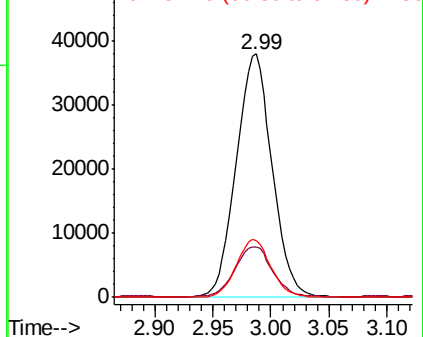
#17
Methvl tert-butvl Ether
Concen: 2.956 ug/L
RT: 2.99 min Scan# 590
Delta R.T. 0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

Instrument :
MSVOA_U
ClientSampleId :
A52T8DL

Tot Ion: 73 Resp: 81759
Ion Ratio Lower Upper
73 100
43 21.3 16.3 24.5
57 22.8 18.6 28.0

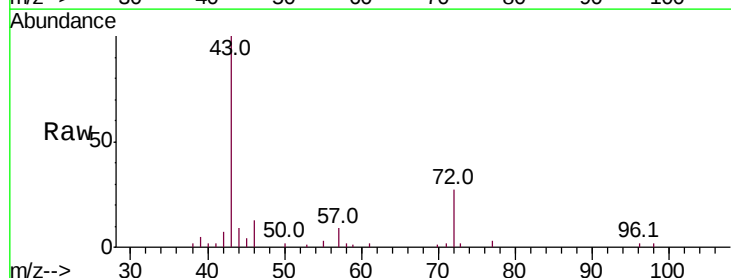


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

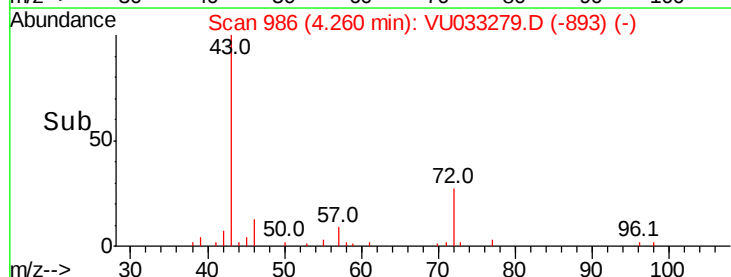
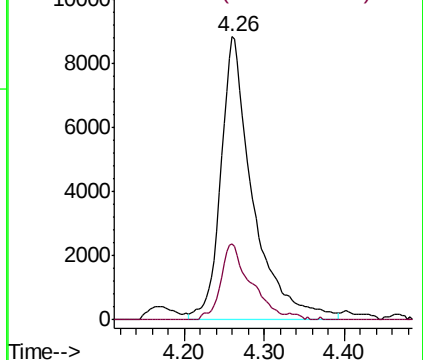


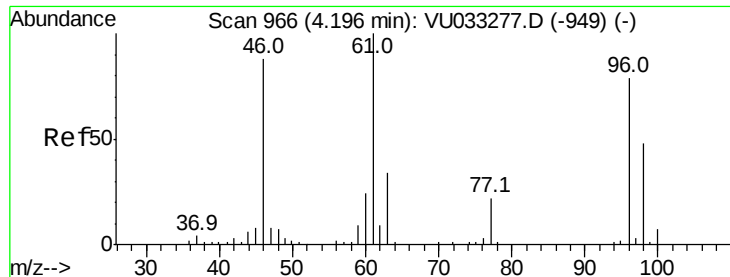
#21
2-Butanone
Concen: 9.947 ug/L
RT: 4.26 min Scan# 986
Delta R.T. -0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

Tgt Ion: 43 Resp: 24414
Ion Ratio Lower Upper
43 100
72 24.9 13.5 40.4



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



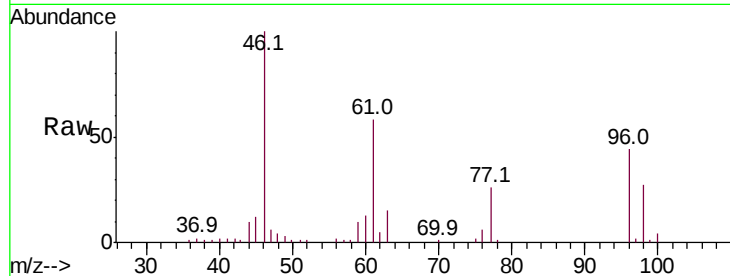


#22

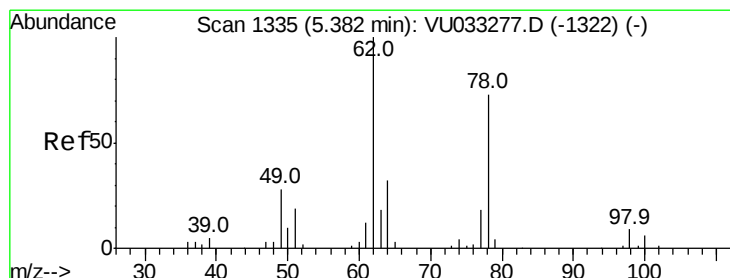
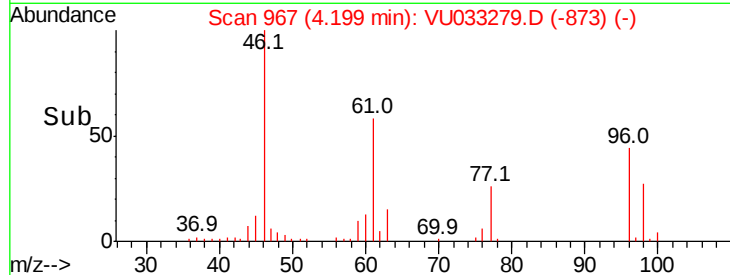
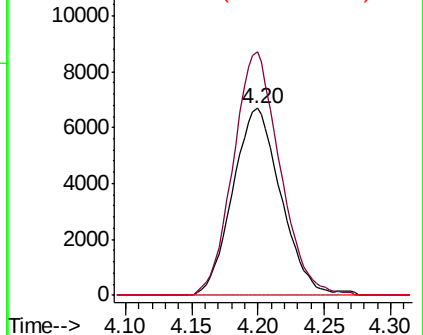
cis-1,2-Dichloroethene
 Concen: 1.709 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033279.D
 Acq: 17 Jul 2019 09:56

Instrument :
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Tot Ion: 96 Resp: 16847
 Ion Ratio Lower Upper
 96 100
 61 130.4 89.2 165.6
 68 0.0 0.0 0.0



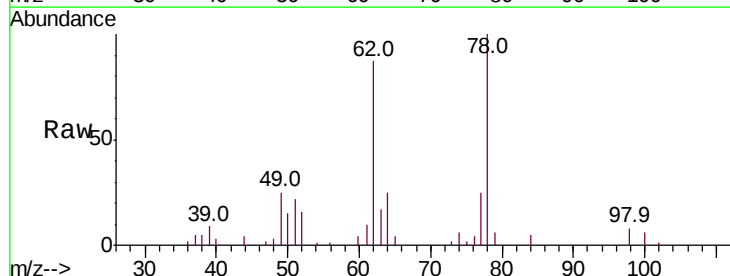
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



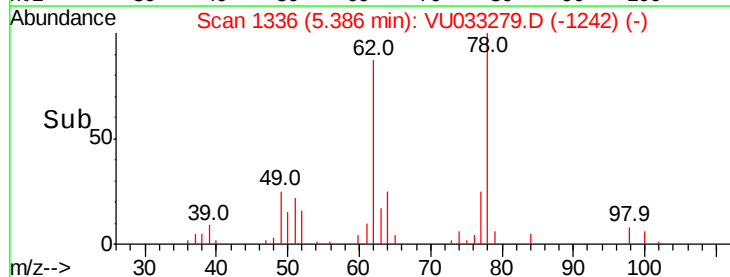
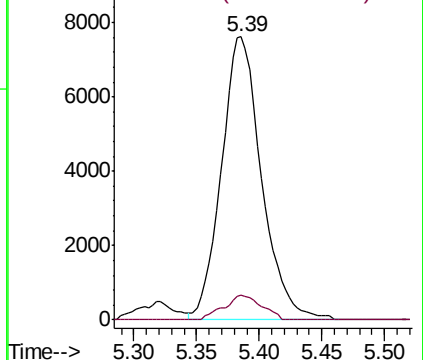
#27

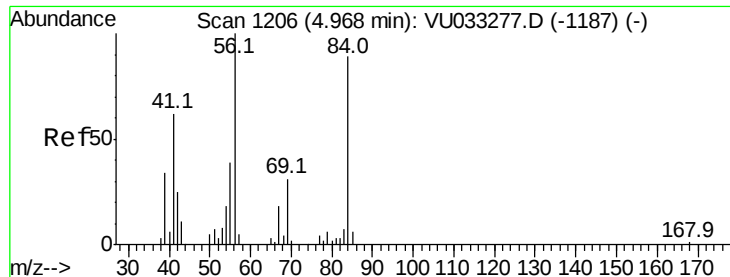
1,2-Dichloroethane
 Concen: 1.464 ug/L
 RT: 5.39 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU033279.D
 Acq: 17 Jul 2019 09:56

Tgt Ion: 62 Resp: 16910
 Ion Ratio Lower Upper
 62 100
 98 8.9 6.6 10.0



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

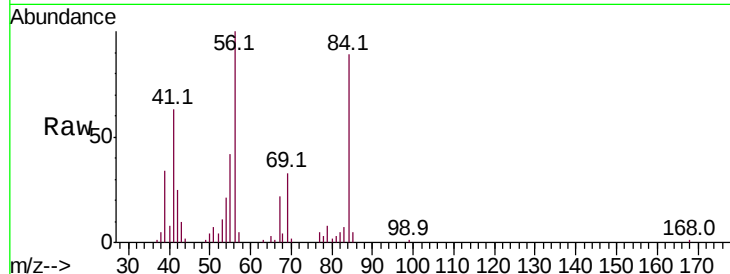




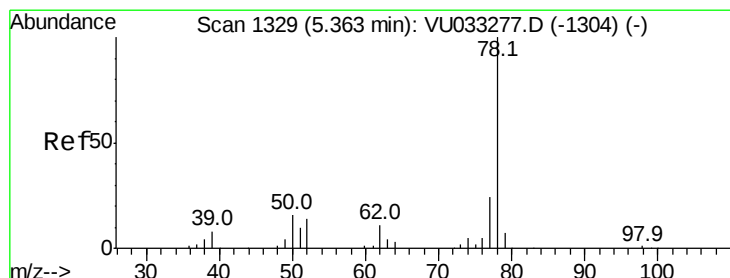
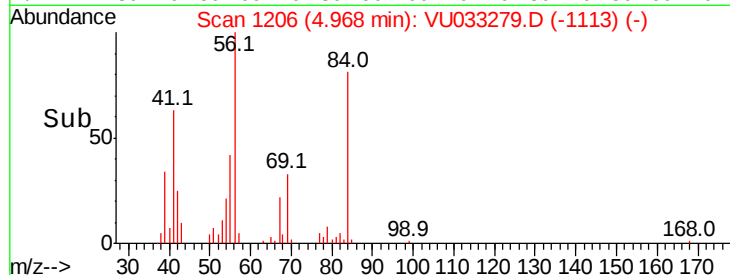
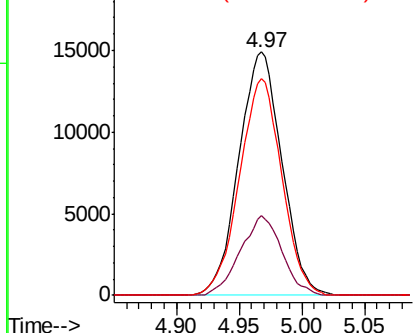
#30
Cyclohexane
Concen: 2.530 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

Instrument :
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A52T8DL

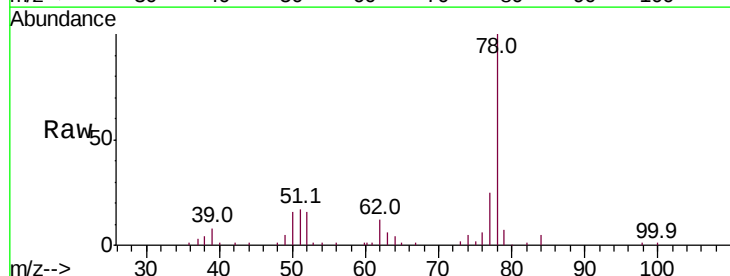
Tot Ion: 56 Resp: 35562
Ion Ratio Lower Upper
56 100
69 31.5 23.9 35.9
84 87.3 69.5 104.3



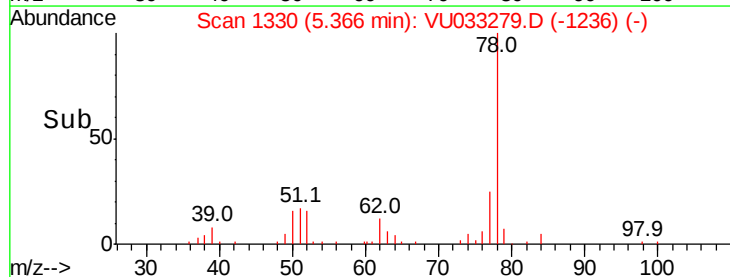
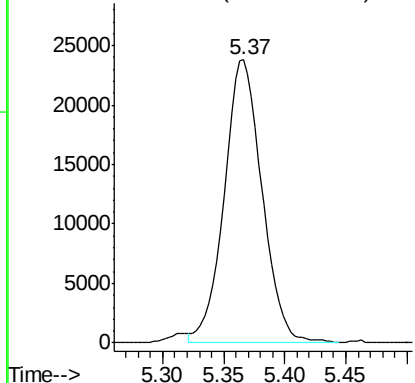
Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

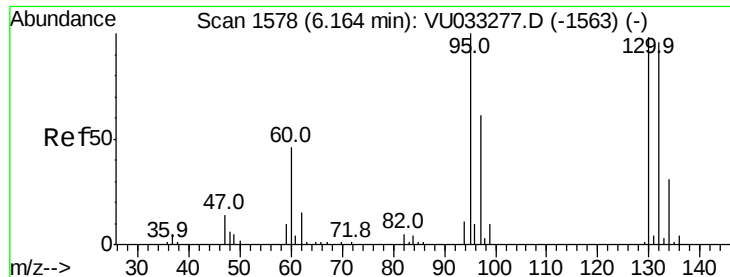


#33
Benzene
Concen: 1.344 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56
Tgt Ion: 78 Resp: 51554



Abundance Ion 78.10 (77.80 to 78.80): VU0

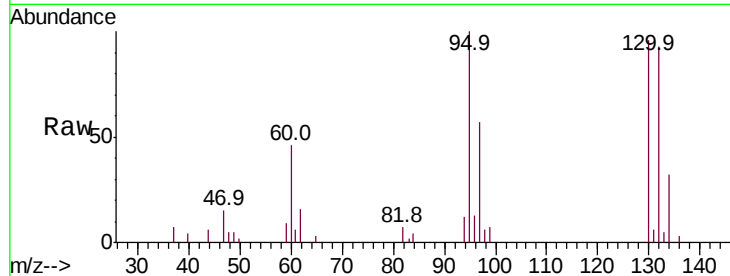




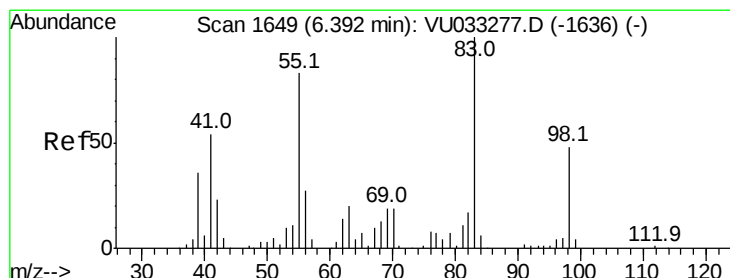
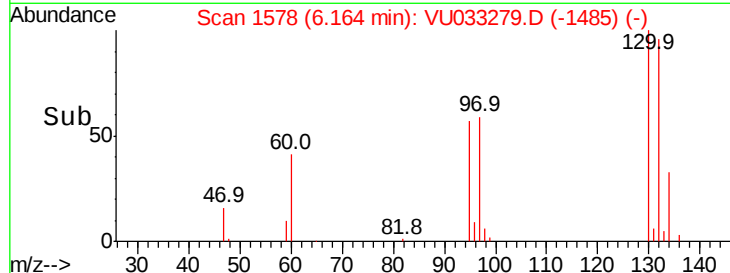
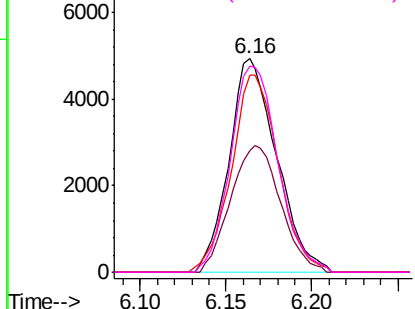
#34
 Trichloroethene
 Concen: 0.942 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033279.D
 Acq: 17 Jul 2019 09:56

Instrument :
 MSVOA_U
 ClientSampleId :
 A52T8DL

Tot Ion:	95	Resp:	9563
Ion	Ratio	Lower	Upper
95	100		
97	56.7	44.5	82.7
132	92.6	66.6	123.8
130	96.4	68.9	127.9

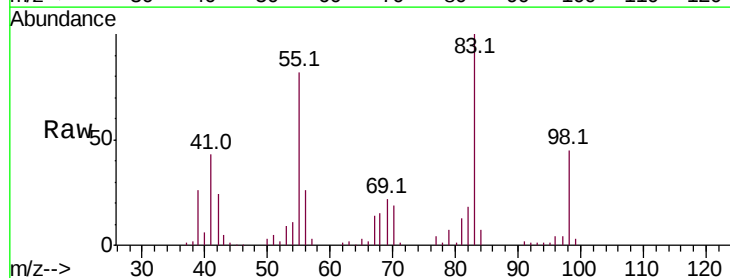


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

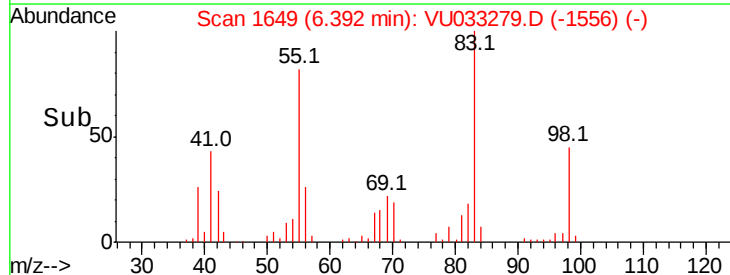
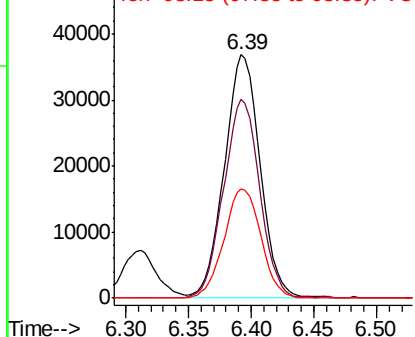


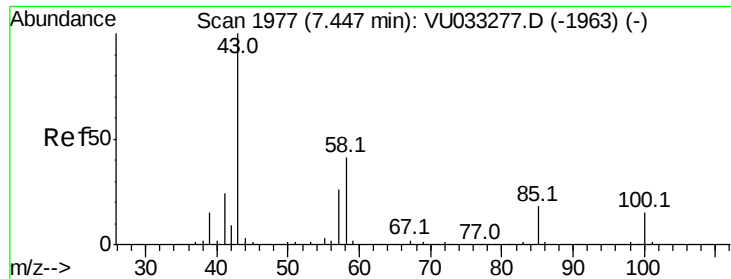
#35
 Methylcyclohexane
 Concen: 4.779 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU033279.D
 Acq: 17 Jul 2019 09:56

Tgt Ion:	83	Resp:	73118
Ion	Ratio	Lower	Upper
83	100		
55	82.3	62.6	94.0
98	46.2	36.2	54.2



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

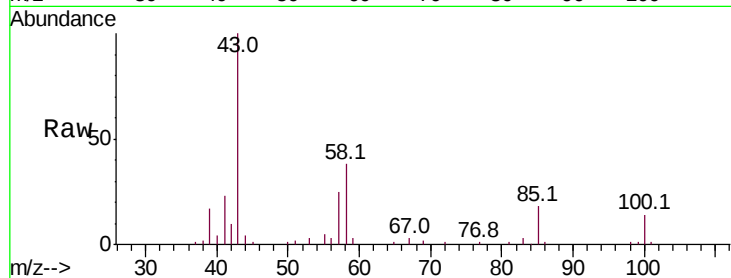




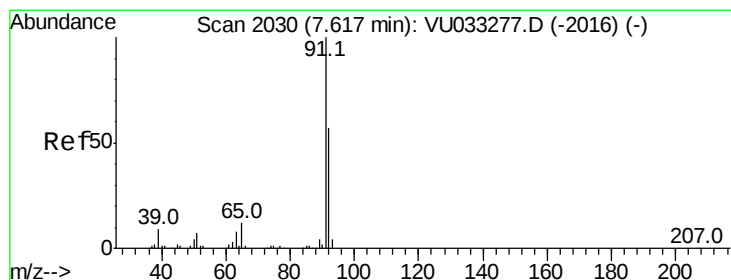
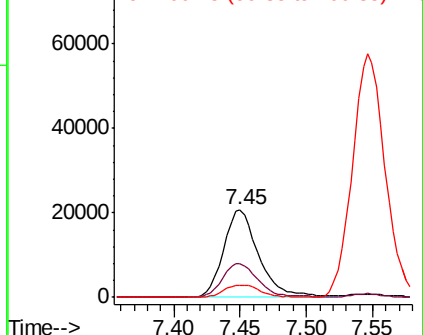
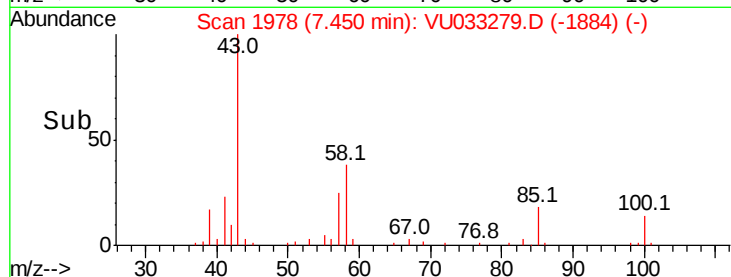
#40
4-Methyl-2-pentanone
Concen: 6.461 ug/L
RT: 7.45 min Scan# 1978
Delta R.T. 0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

Instrument :
MSVOA_U
ClientSampleId :
A52T8DL

Tot Ion: 43 Resp: 38419
Ion Ratio Lower Upper
43 100
58 39.2 32.4 48.6
100 14.3 11.9 17.9

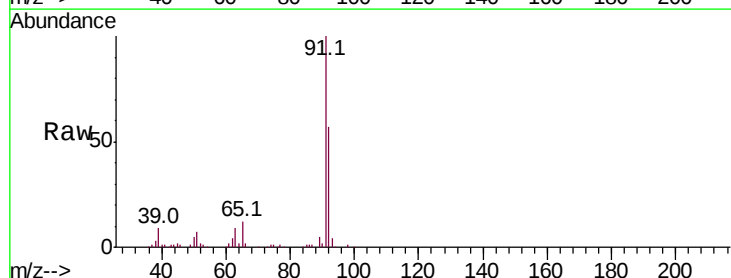


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 100.15 (99.85 to 100.85): VU0

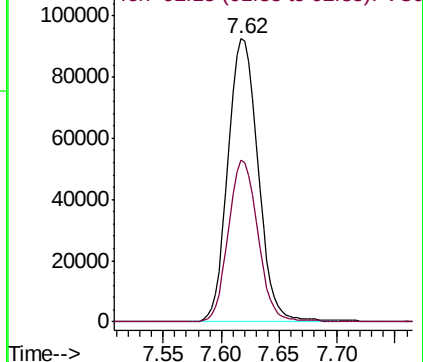
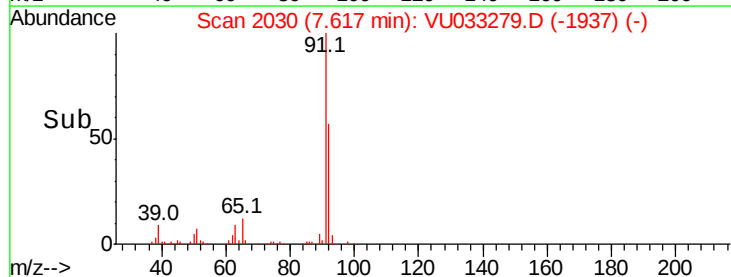


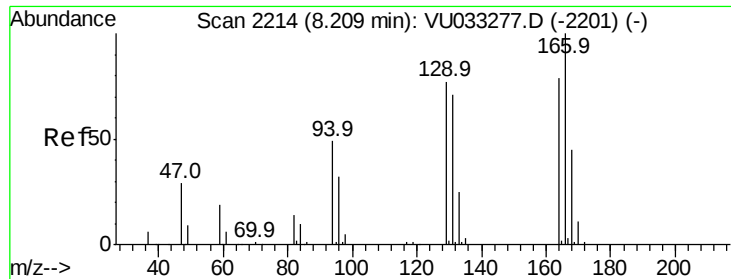
#42
Toluene
Concen: 4.050 ug/L
RT: 7.62 min Scan# 2030
Delta R.T. -0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

Tgt Ion: 91 Resp: 166831
Ion Ratio Lower Upper
91 100
92 57.0 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0

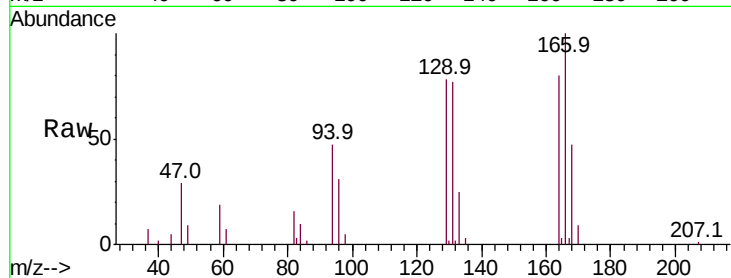




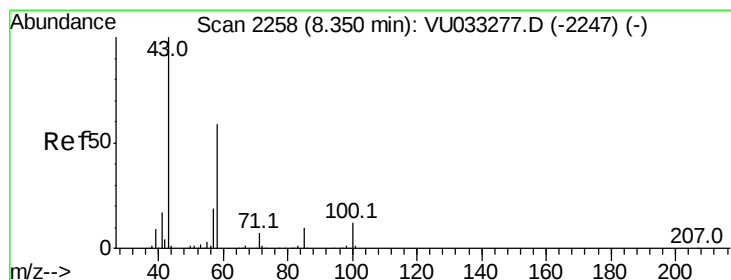
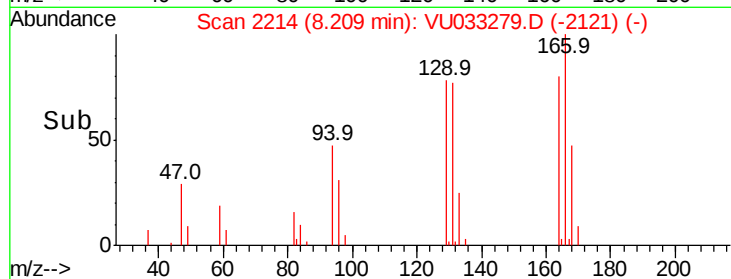
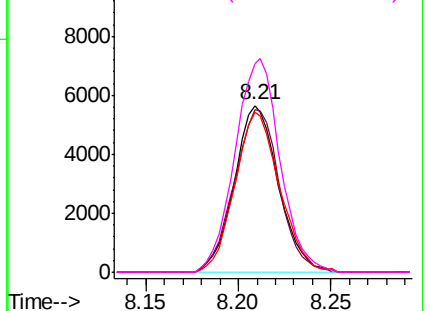
#47
Tetrachloroethene
Concen: 1.147 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

Instrument :
MSVOA_U
ClientSampleId :
A52T8DL

Tot Ion:164 Resp: 9333
Ion Ratio Lower Upper
164 100
129 97.2 68.5 127.1
131 95.5 67.3 124.9
166 124.7 93.1 172.9

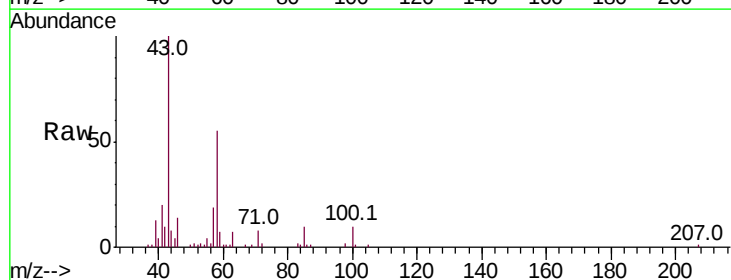


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

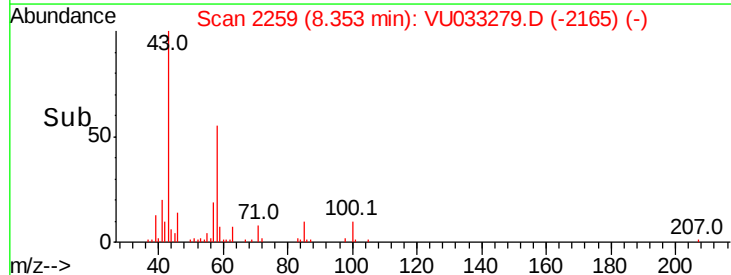
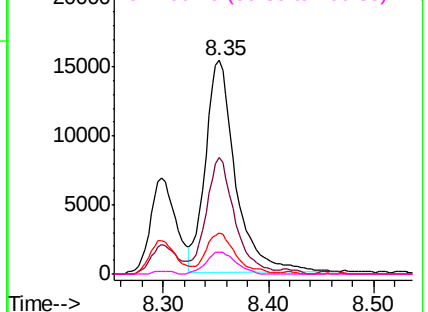


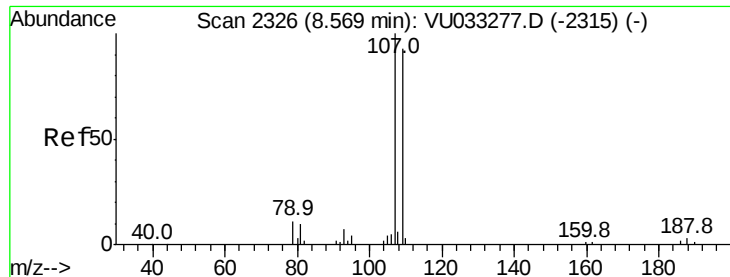
#48
2-Hexanone
Concen: 7.054 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

Tgt Ion: 43 Resp: 30677
Ion Ratio Lower Upper
43 100
58 52.5 44.1 66.1
57 19.2 15.8 23.8
100 10.2 9.4 14.2



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

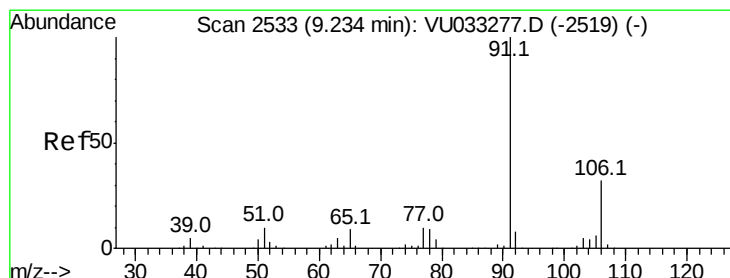
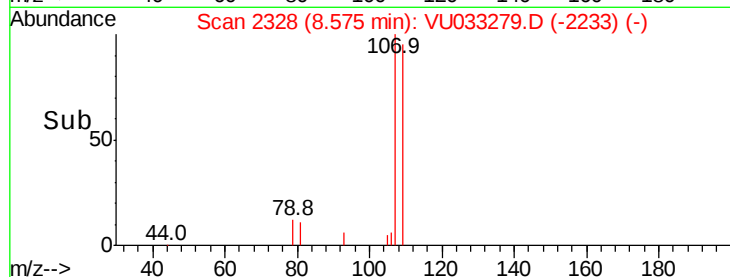
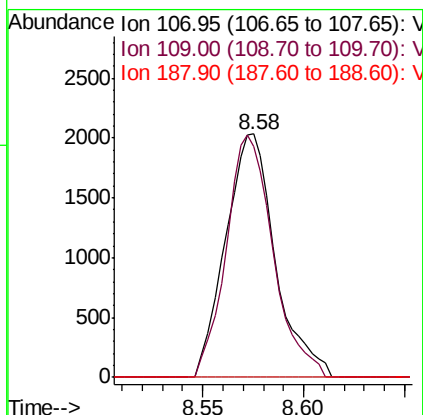
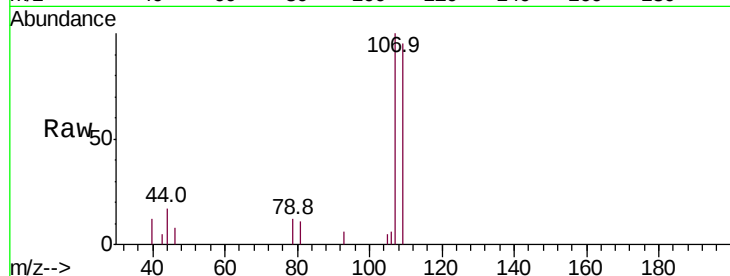




#50
1,2-Dibromoethane
Concen: 0.492 ug/L
RT: 8.58 min Scan# 2328
Delta R.T. 0.01 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

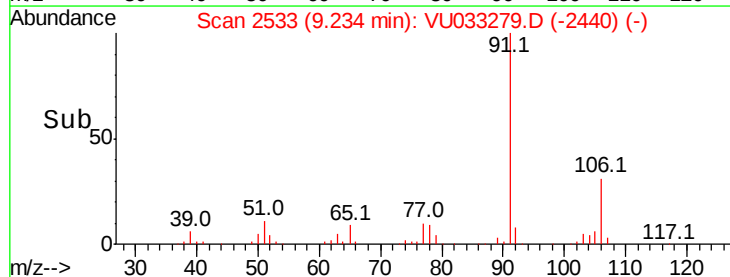
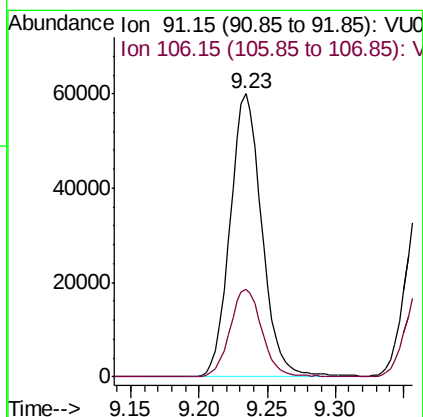
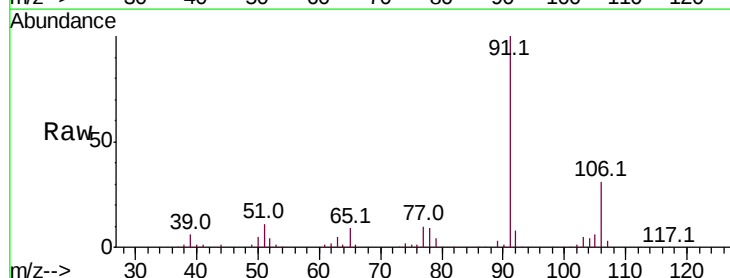
Instrument :
MSVOA_U
ClientSampleId :
A52T8DL

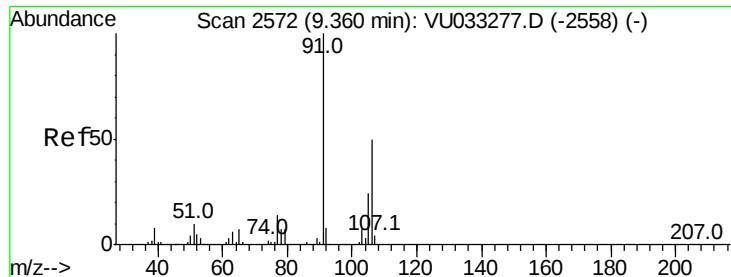
Tot Ion:107 Resp: 3502
Ion Ratio Lower Upper
107 100
109 94.7 64.8 120.4
188 0.0 3.0 4.6#



#52
Ethylbenzene
Concen: 2.209 ug/L
RT: 9.23 min Scan# 2533
Delta R.T. -0.00 min
Lab File: VU033279.D
Acq: 17 Jul 2019 09:56

Tgt Ion: 91 Resp: 97121
Ion Ratio Lower Upper
91 100
106 30.9 21.6 40.2





#53

m,p-Xylene

Concen: 1.960 ug/L

RT: 9.36 min Scan# 2573

Delta R.T. 0.00 min

Lab File: VU033279.D

Acq: 17 Jul 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

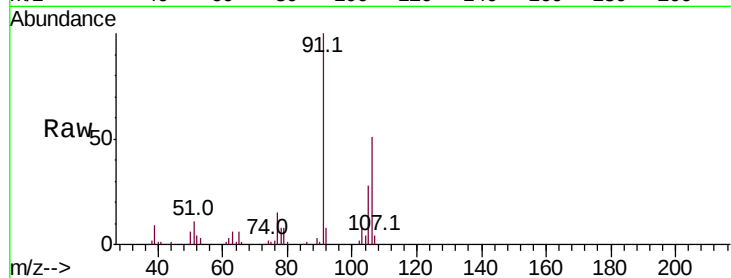
A52T8DL

Tot Ion:106 Resp: 32562

Ion Ratio Lower Upper

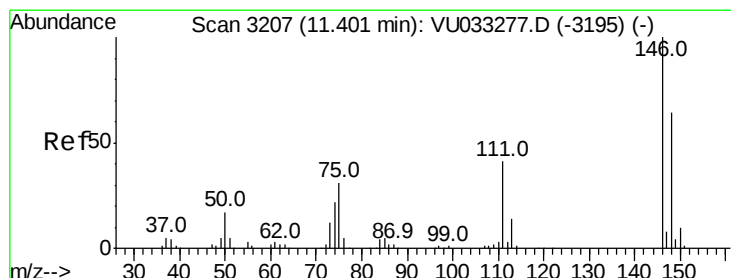
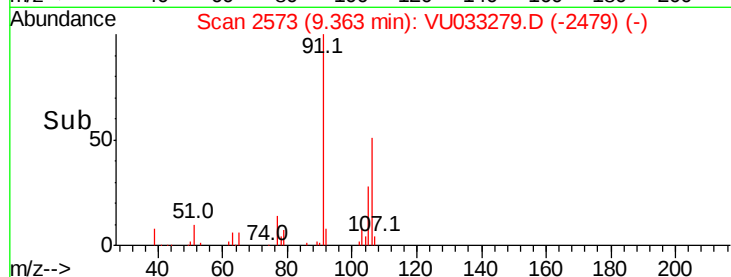
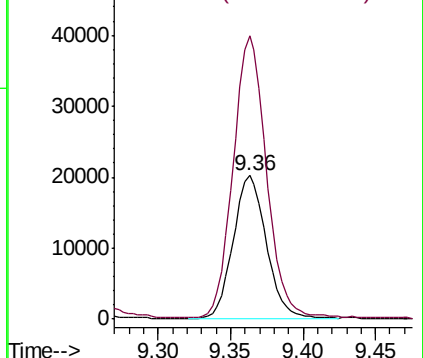
106 100

91 197.0 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#62

1,3-Dichlorobenzene

Concen: 1.533 ug/L

RT: 11.40 min Scan# 3208

Delta R.T. 0.00 min

Lab File: VU033279.D

Acq: 17 Jul 2019 09:56

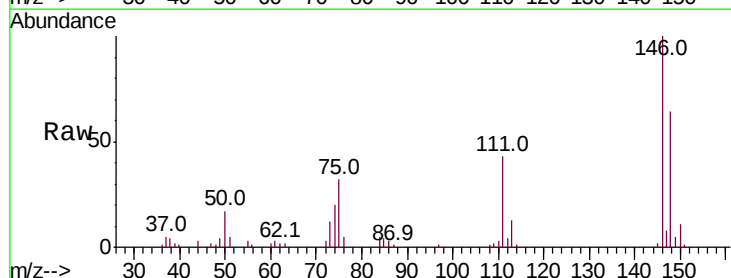
Tgt Ion:146 Resp: 27377

Ion Ratio Lower Upper

146 100

111 42.9 28.6 53.2

148 63.7 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

