

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
 Data File : VU035252.D
 Acq On : 18 Oct 2019 08:24
 Operator : JC/SP
 Sample : K5419-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 18 13:54:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 13:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	324024	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	318279	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	129040	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	101183	5.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.40%
7) Chloroethane-d5	1.93	69	94127	5.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.20%
11) 1,1-Dichloroethene-d2	2.60	63	142072	3.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.80%
20) 2-Butanone-d5	4.71	46	247063	43.51	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.02%
24) Chloroform-d	5.11	84	173658	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	5.75	65	101304	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
32) Benzene-d6	5.77	84	376120	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.40%
36) 1,2-Dichloropropane-d6	6.74	67	120717	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.40%
41) Toluene-d8	7.93	98	354857	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
43) trans-1,3-Dichloropropene-	8.22	79	52024	4.64	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.80%
46) 2-Hexanone-d5	8.69	63	222025	44.89	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.78%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	96339	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	119208	5.07	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	13763	0.490	ug/L #	78
12) 1,1-Dichloroethene	2.59	96	1705	0.082	ug/L #	1
13) Acetone	2.67	43	10619	2.689	ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	6160	0.274	ug/L	92
22) cis-1,2-Dichloroethene	4.73	96	15144	0.610	ug/L	97
25) Chloroform	5.14	83	12960	0.291	ug/L	91
30) Cyclohexane	5.43	56	3572	0.089	ug/L #	71
33) Benzene	5.82	78	9035	0.096	ug/L	100
35) Methylcyclohexane	6.74	83	28084	0.667	ug/L #	19
37) 1,2-Dichloropropane	6.74	63	13679	0.575	ug/L #	86
39) cis-1,3-Dichloropropene	7.61	75	3490	0.088	ug/L #	53
45) 1,1,2-Trichloroethane	8.40	97	3349	0.190	ug/L #	22
48) 2-Hexanone	8.74	43	11794	1.048	ug/L #	90
52) Ethylbenzene	9.60	91	14236	0.121	ug/L	94
59) 1,2,3-Trichloropropane	11.84	75	15361	0.927	ug/L #	79
66) 1,2-Dibromo-3-chloropropan	13.15	75	1195	0.409	ug/L #	1

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 18 13:51:17 2019
Response via : Initial Calibration

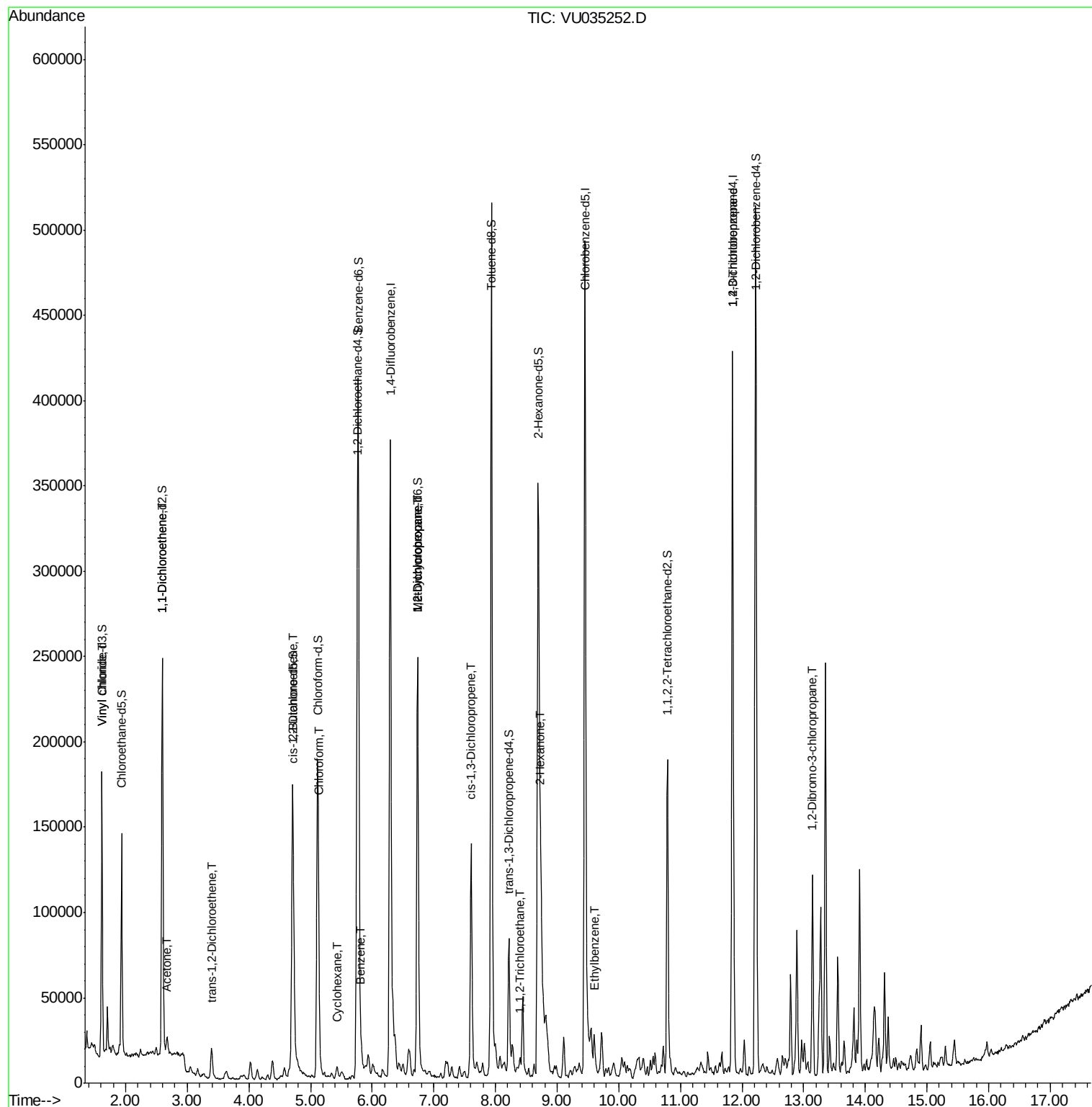
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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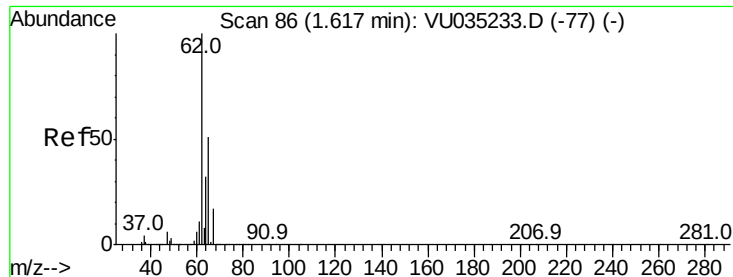
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 18 13:51:17 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.490 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

Instrument :

MSVOA_U

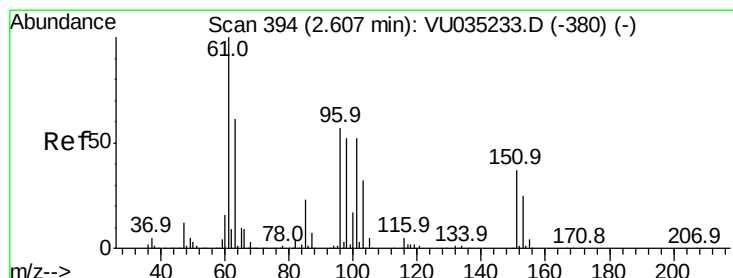
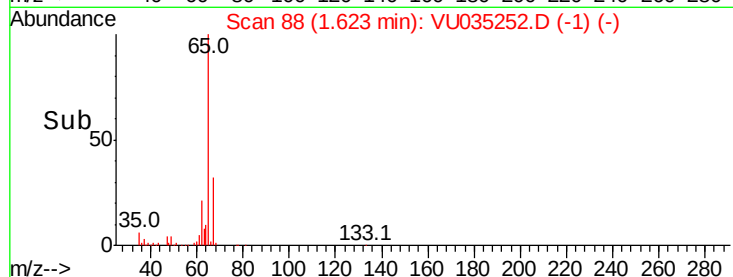
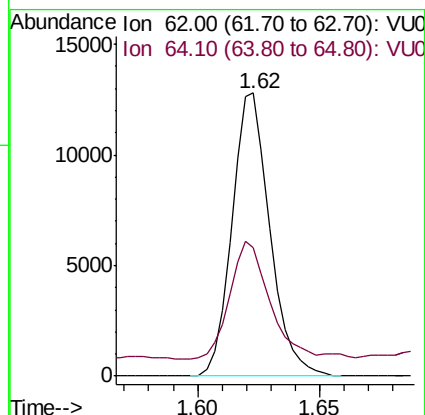
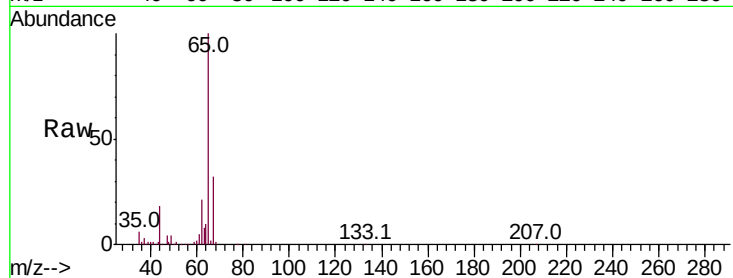
ClientSampleId :

Tot Ion: 62 Resp: 13763

Ion Ratio Lower Upper

62 100

64 45.2 22.9 42.5#



#12

1,1-Dichloroethene

Concen: 0.082 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.02 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

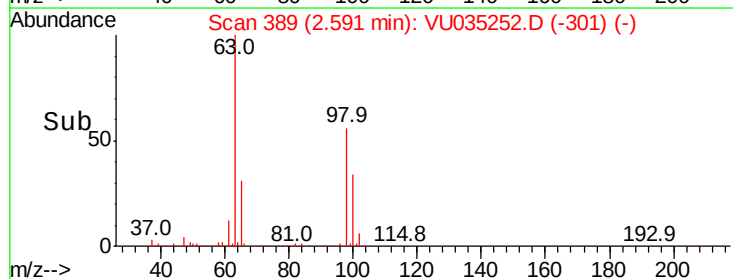
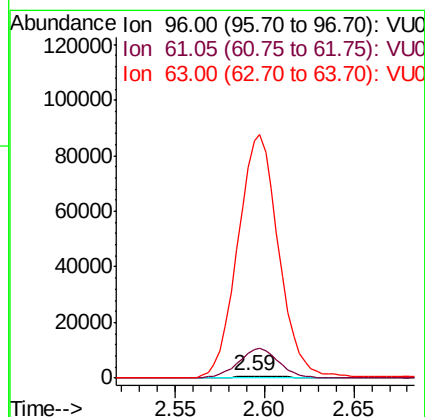
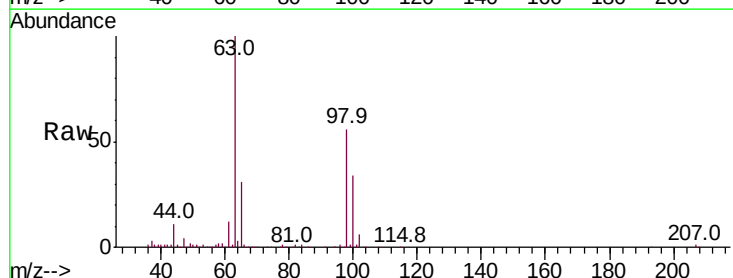
Tgt Ion: 96 Resp: 1705

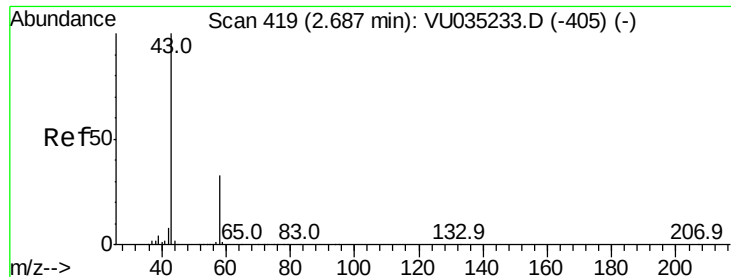
Ion Ratio Lower Upper

96 100

61 1125.4 120.6 224.0#

63 9689.1 86.8 161.2#





#13

Acetone

Concen: 2.689 ug/L

RT: 2.67 min Scan# 415

Delta R.T. -0.01 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

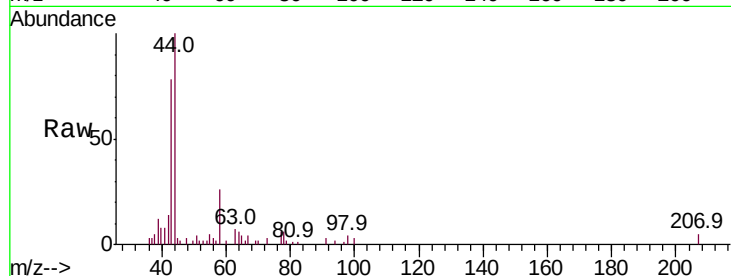
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 10619

Ion Ratio Lower Upper

43 100

58 31.8 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035233.D (-405) (-)

Ion 58.05 (57.75 to 58.75): VU035233.D (-405) (-)

2.67

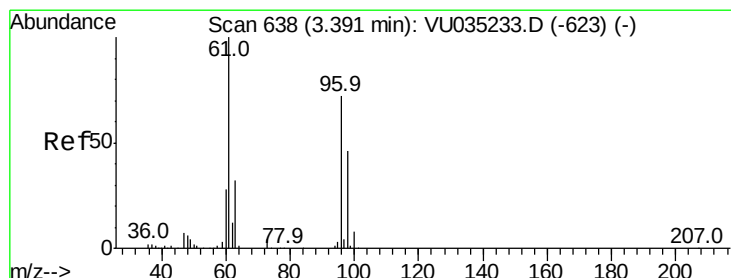
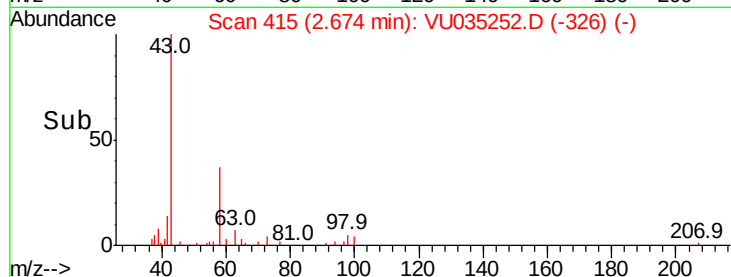
6000

4000

2000

0

Time--> 2.60 2.65 2.70 2.75



#18

trans-1,2-Dichloroethene

Concen: 0.274 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

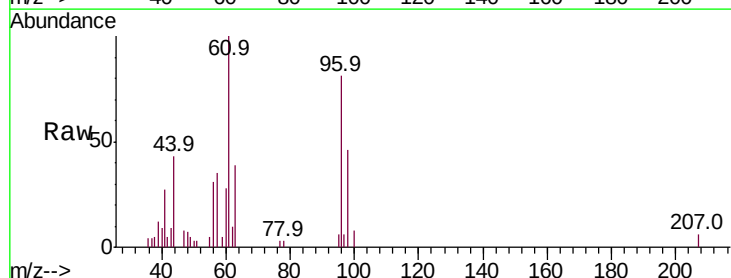
Tgt Ion: 96 Resp: 6160

Ion Ratio Lower Upper

96 100

61 122.9 93.0 172.6

98 56.3 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035233.D (-623) (-)

Ion 61.05 (60.75 to 61.75): VU035233.D (-623) (-)

Ion 97.95 (97.65 to 98.65): VU035233.D (-623) (-)

3.39

5000

4000

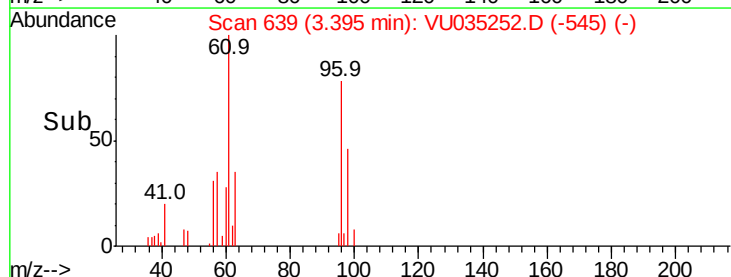
3000

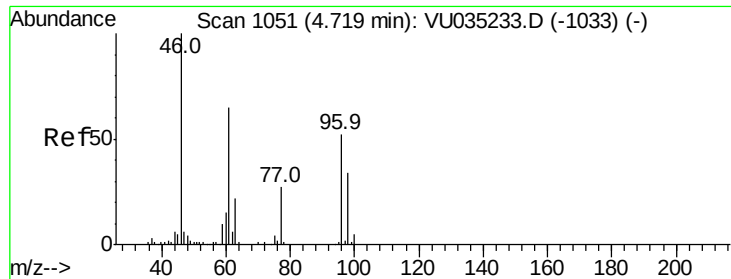
2000

1000

0

Time--> 3.35 3.40 3.45





#22

cis-1,2-Dichloroethene

Concen: 0.610 ug/L

RT: 4.73 min Scan# 1053

Delta R.T. 0.01 min

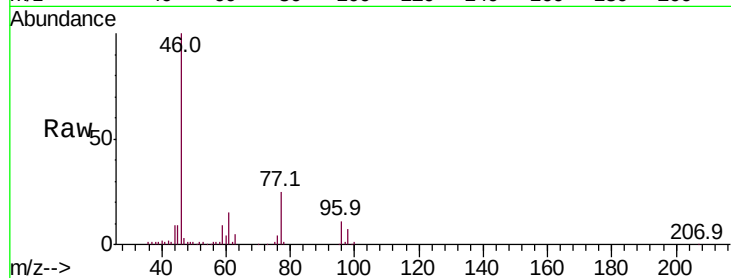
Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 15144

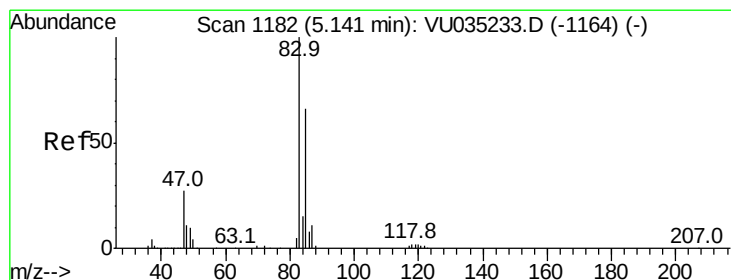
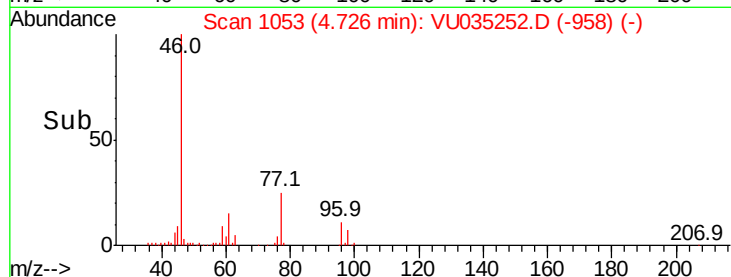
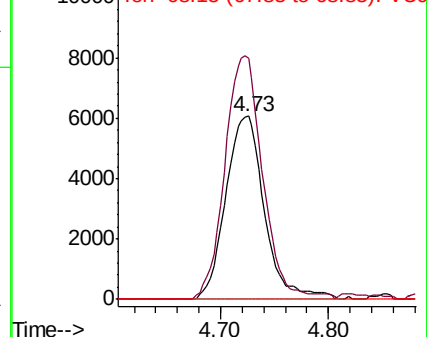
Ion	Ratio	Lower	Upper
96	100		
61	131.7	89.7	166.5
68	0.0	0.0	0.0



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



#25

Chloroform

Concen: 0.291 ug/L

RT: 5.14 min Scan# 1181

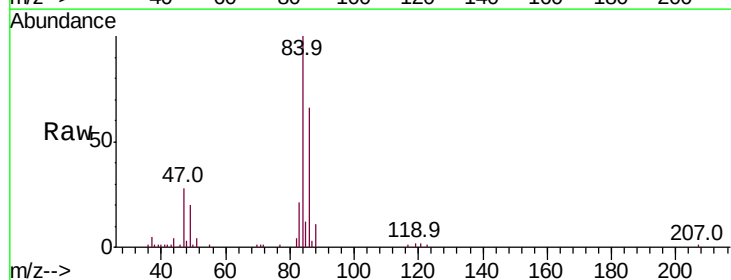
Delta R.T. -0.00 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

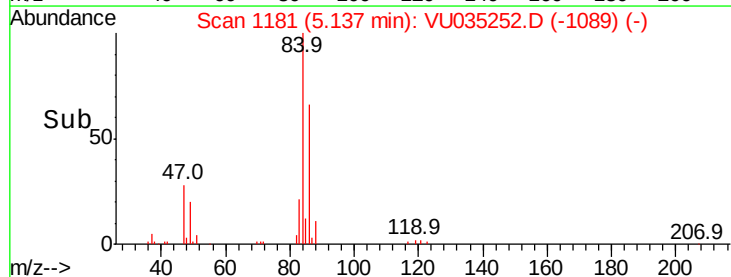
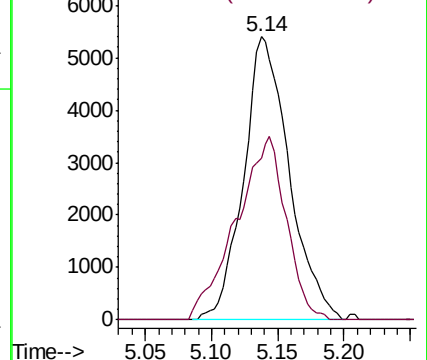
Tgt Ion: 83 Resp: 12960

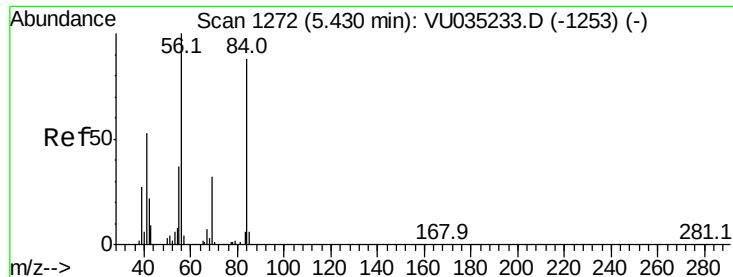
Ion	Ratio	Lower	Upper
83	100		
85	57.2	45.1	83.9



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

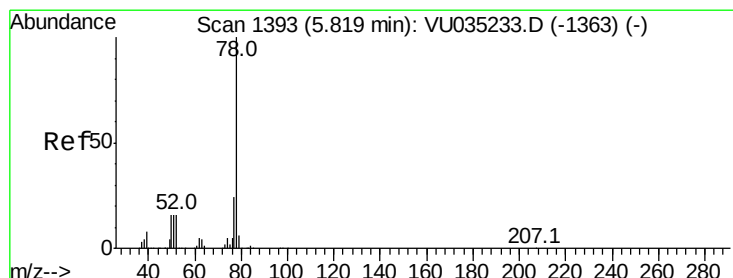
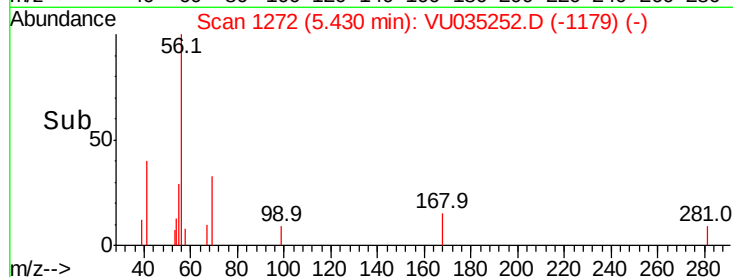
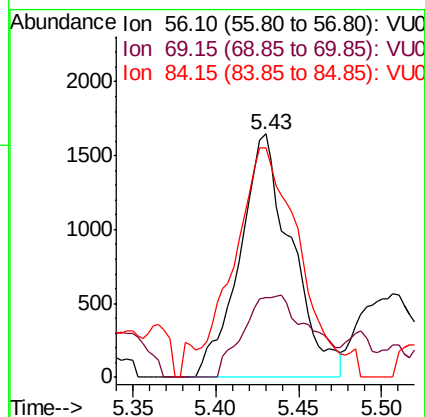
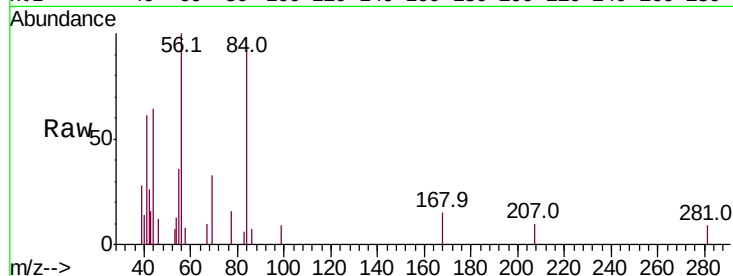




#30
Cyclohexane
Concen: 0.089 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU035252.D
Acq: 18 Oct 2019 08:24

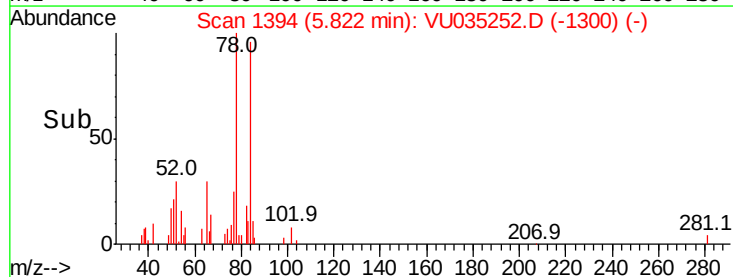
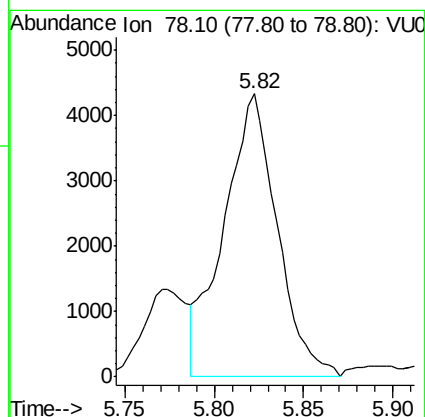
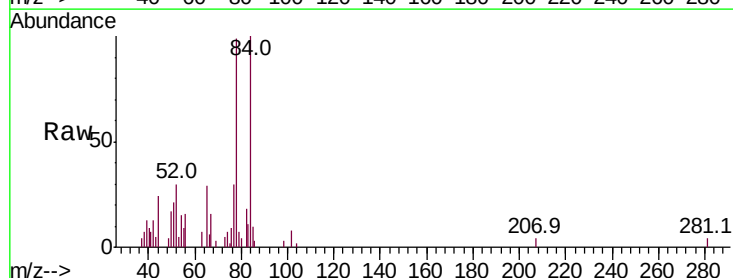
Instrument :
MSVOA_U
ClientSampleId :

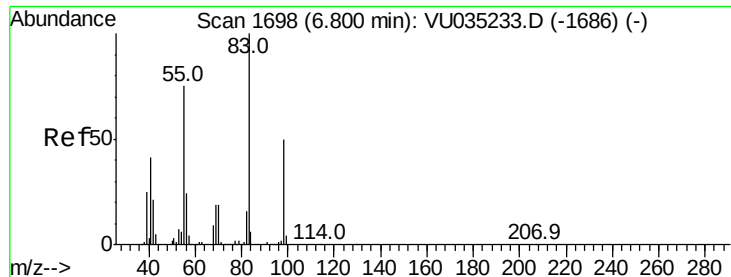
Tot Ion: 56 Resp: 3572
Ion Ratio Lower Upper
56 100
69 43.4 24.6 36.8#
84 118.6 71.5 107.3#



#33
Benzene
Concen: 0.096 ug/L
RT: 5.82 min Scan# 1394
Delta R.T. 0.00 min
Lab File: VU035252.D
Acq: 18 Oct 2019 08:24

Tgt Ion: 78 Resp: 9035





#35

Methylcyclohexane

Concen: 0.667 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.06 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

Instrument :
MSVOA_U
ClientSampleId :

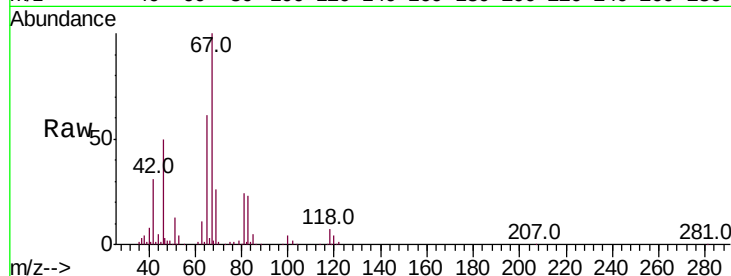
Tot Ion: 83 Resp: 28084

Ion Ratio Lower Upper

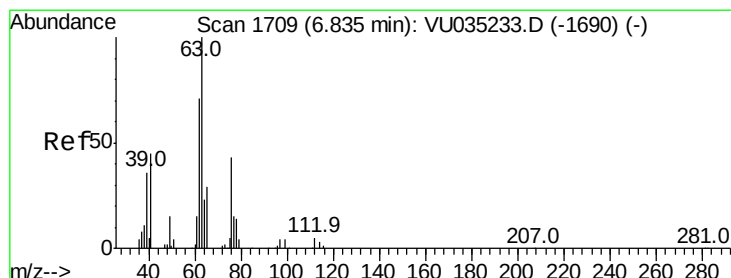
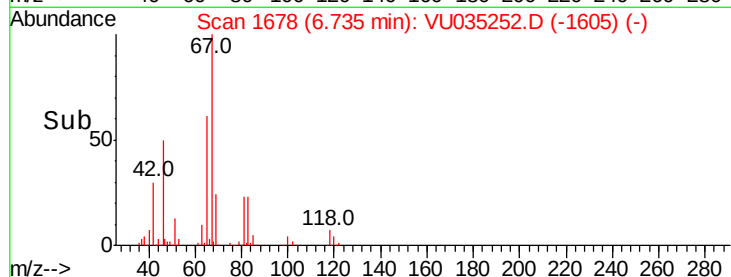
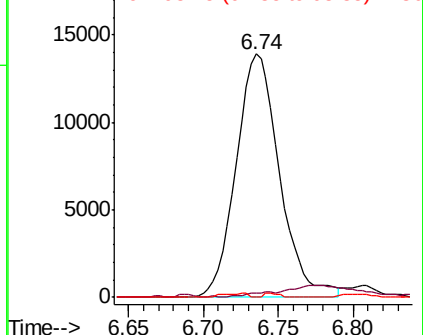
83 100

55 0.0 60.4 90.6#

98 0.8 39.5 59.3#



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



#37

1,2-Dichloropropane

Concen: 0.575 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.10 min

Lab File: VU035252.D

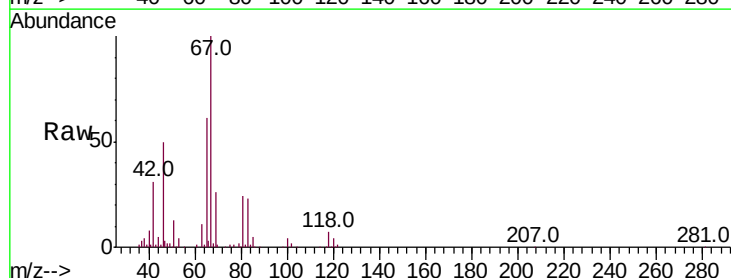
Acq: 18 Oct 2019 08:24

Tgt Ion: 63 Resp: 13679

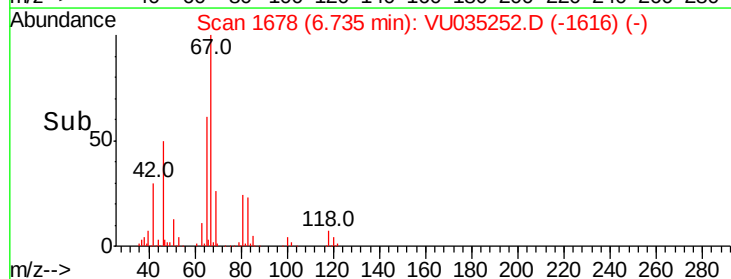
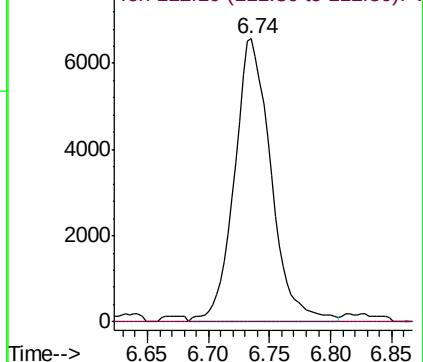
Ion Ratio Lower Upper

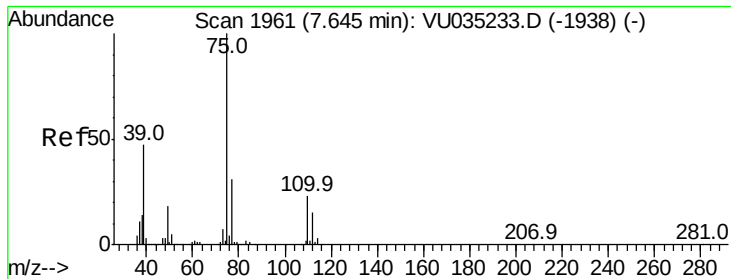
63 100

112 0.0 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#39

cis-1,3-Dichloropropene

Concen: 0.088 ug/L

RT: 7.61 min Scan# 1949

Delta R.T. -0.04 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

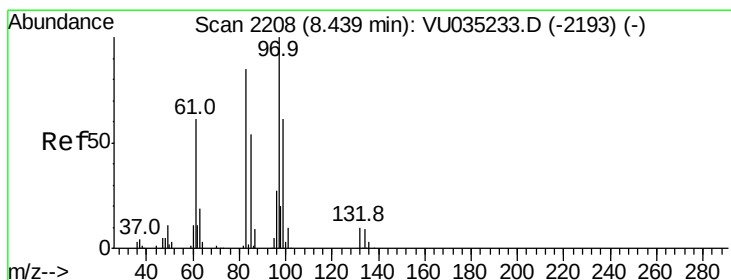
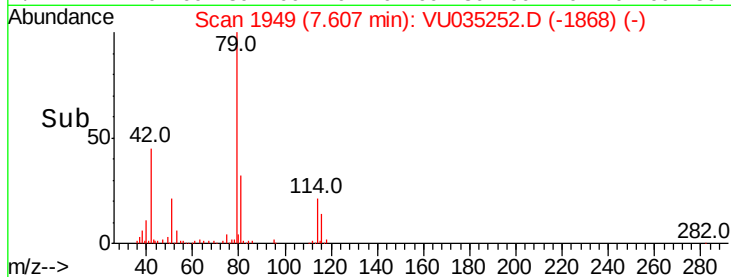
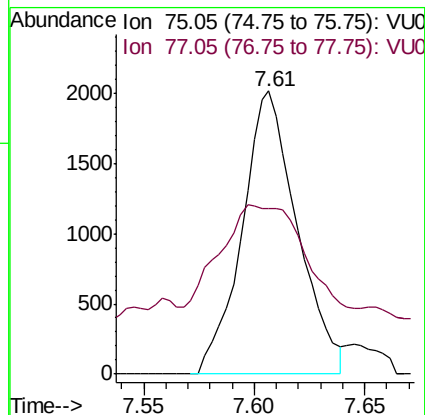
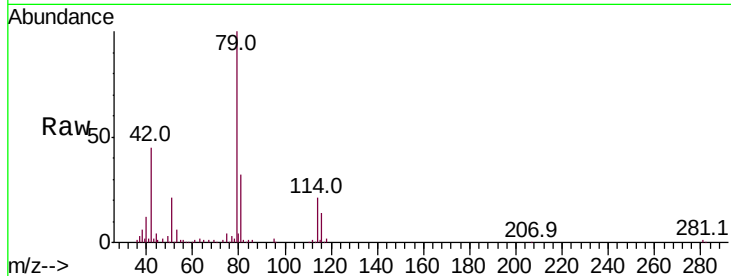
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 3490

Ion Ratio Lower Upper

75 100

77 58.6 22.7 42.1#



#45

1,1,2-Trichloroethane

Concen: 0.190 ug/L

RT: 8.40 min Scan# 2195

Delta R.T. -0.04 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

Tgt Ion: 97 Resp: 3349

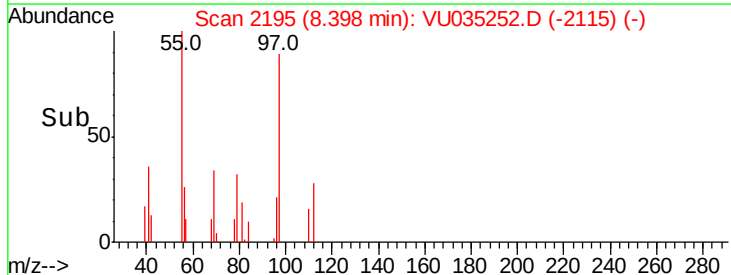
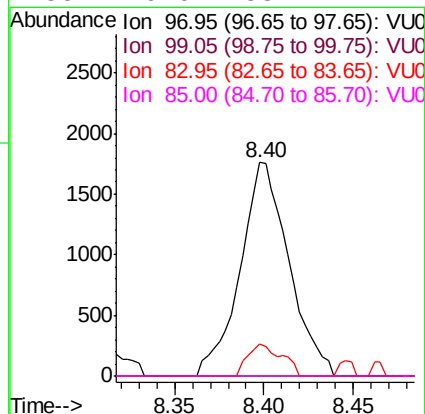
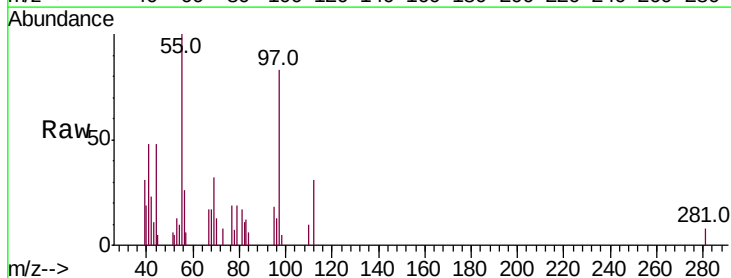
Ion Ratio Lower Upper

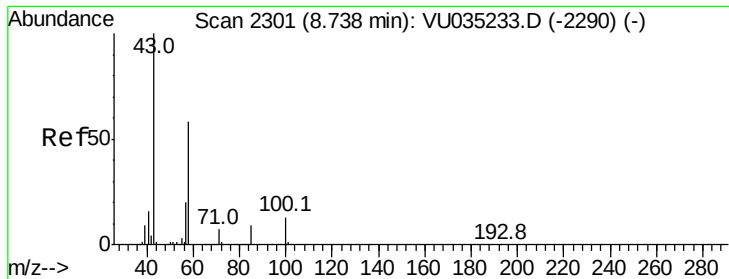
97 100

99 0.0 42.9 79.7#

83 14.7 60.4 112.2#

85 0.0 38.4 71.2#

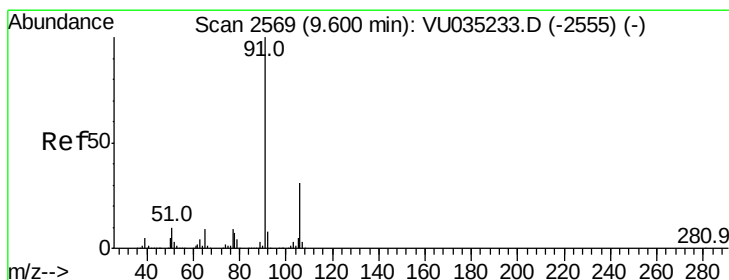
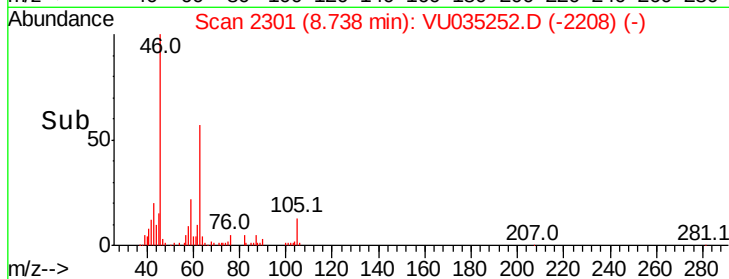
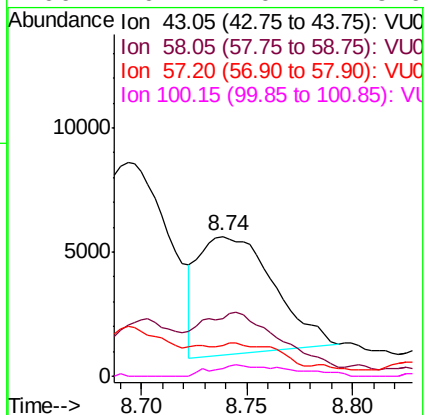
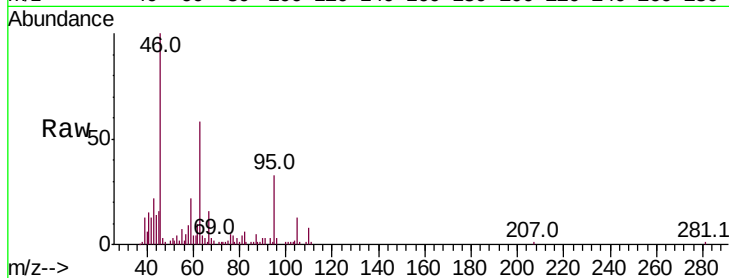




#48
2-Hexanone
Concen: 1.048 ug/L
RT: 8.74 min Scan# 2301
Delta R.T. -0.00 min
Lab File: VU035252.D
Acq: 18 Oct 2019 08:24

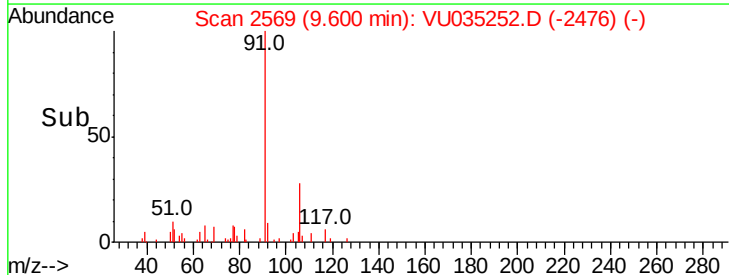
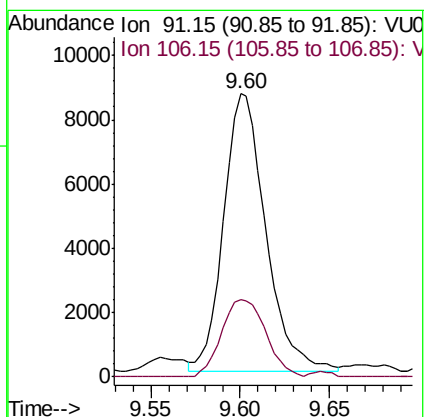
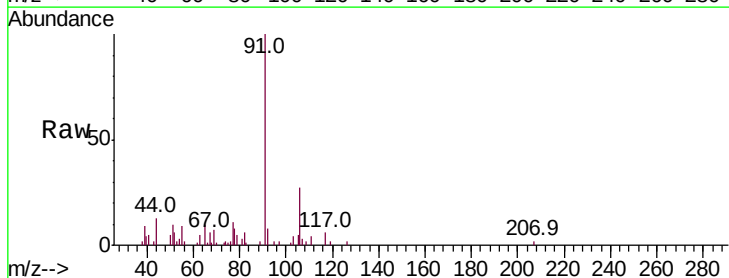
Instrument :
MSVOA_U
ClientSampleId :

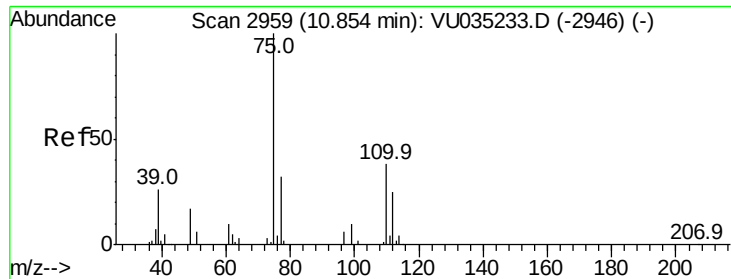
Tot Ion: 43 Resp: 11794
Ion Ratio Lower Upper
43 100
58 62.9 45.1 67.7
57 14.2 16.0 24.0#
100 10.1 10.4 15.6#



#52
Ethylbenzene
Concen: 0.121 ug/L
RT: 9.60 min Scan# 2569
Delta R.T. -0.00 min
Lab File: VU035252.D
Acq: 18 Oct 2019 08:24

Tgt Ion: 91 Resp: 14236
Ion Ratio Lower Upper
91 100
106 27.4 21.3 39.6





#59

1,2,3-Trichloropropane

Concen: 0.927 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

Instrument :

MSVOA_U

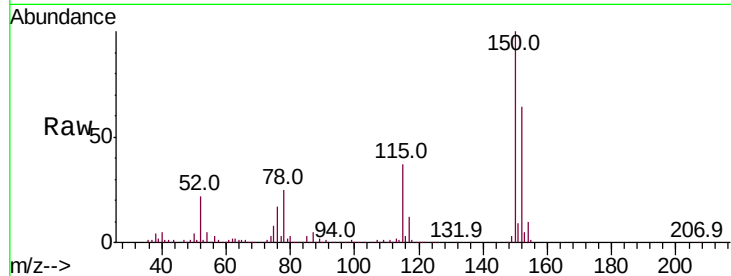
ClientSampleId :

Tot Ion: 75 Resp: 15361

Ion Ratio Lower Upper

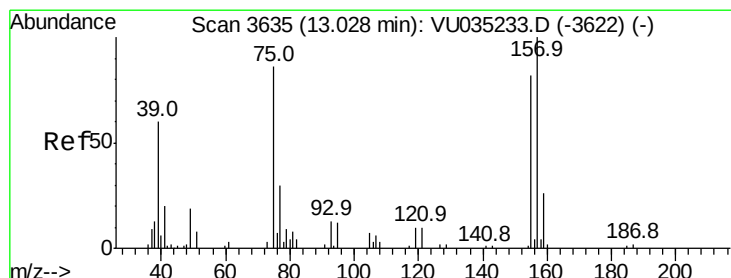
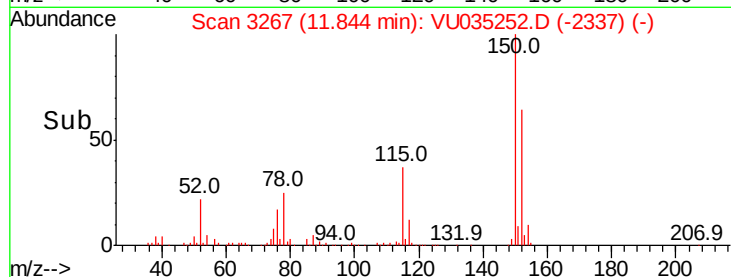
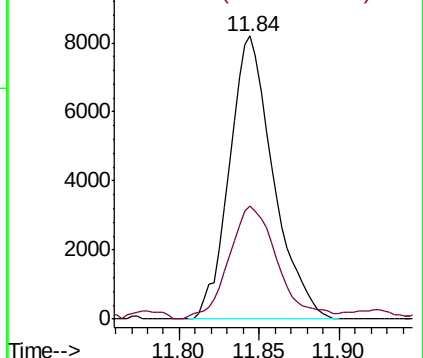
75 100

77 44.4 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#66

1,2-Dibromo-3-chloropropane

Concen: 0.409 ug/L

RT: 13.15 min Scan# 3672

Delta R.T. 0.12 min

Lab File: VU035252.D

Acq: 18 Oct 2019 08:24

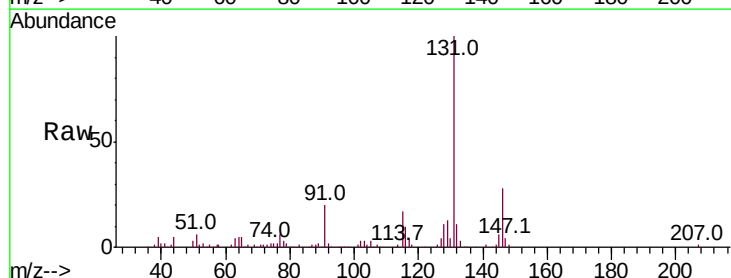
Tgt Ion: 75 Resp: 1195

Ion Ratio Lower Upper

75 100

155 0.0 70.0 105.0#

157 0.0 94.7 142.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

