

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
 Data File : VU032525.D
 Acq On : 07 Jun 2019 02:53
 Operator : JC/SP
 Sample : K3215-13
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DB8J8

Quant Time: Jun 07 07:35:27 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	214419	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	204887	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	120127	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	41472	29.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	59.62%#
7) Chloroethane-d5	1.68	69	38719	34.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	69.26%#
11) 1,1-Dichloroethene-d2	2.26	63	70913	26.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	52.06%#
21) 2-Butanone-d5	4.17	46	140793	120.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.94%
24) Chloroform-d	4.64	84	109479	42.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.40%
26) 1,2-Dichloroethane-d4	5.30	65	75738	46.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.68%
32) Benzene-d6	5.33	84	219229	41.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.44%
36) 1,2-Dichloropropane-d6	6.32	67	74433	44.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.26%
41) Toluene-d8	7.56	98	213061	42.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.50%
43) trans-1,3-Dichloropropene-	7.85	79	34362	43.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.10%
47) 2-Hexanone-d5	8.31	63	106491	131.63	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	131.63%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	128802	53.30	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.60%
64) 1,2-Dichlorobenzene-d4	11.85	152	112360	48.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.66%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	25401	13.614	ug/L #	27
13) Acetone	2.32	43	2046428	1703.637	ug/L	99
16) Methylene chloride	2.69	84	2663	1.834	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	6865	4.979	ug/L	98
19) 1,1-Dichloroethane	3.44	63	31172	12.402	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	18683	11.974	ug/L	96
22) 2-Butanone	4.26	43	47715	33.609	ug/L	99
33) Benzene	5.38	78	189207	32.868	ug/L	100
34) Trichloroethene	6.18	95	12943	8.264	ug/L	96
35) Methylcyclohexane	6.41	83	1888	0.745	ug/L #	86
37) 1,2-Dichloropropane	6.43	63	9889	6.480	ug/L #	96
40) 4-Methyl-2-pentanone	7.45	43	481828	196.264	ug/L	99
42) Toluene	7.63	91	599274	95.055	ug/L	99
46) Tetrachloroethene	8.22	164	5214	4.031	ug/L	99
51) Chlorobenzene	9.12	112	26694	6.572	ug/L	98
52) Ethylbenzene	9.24	91	225104	32.033	ug/L	98
53) m,p-Xylene	9.37	106	248943	93.161	ug/L	99

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

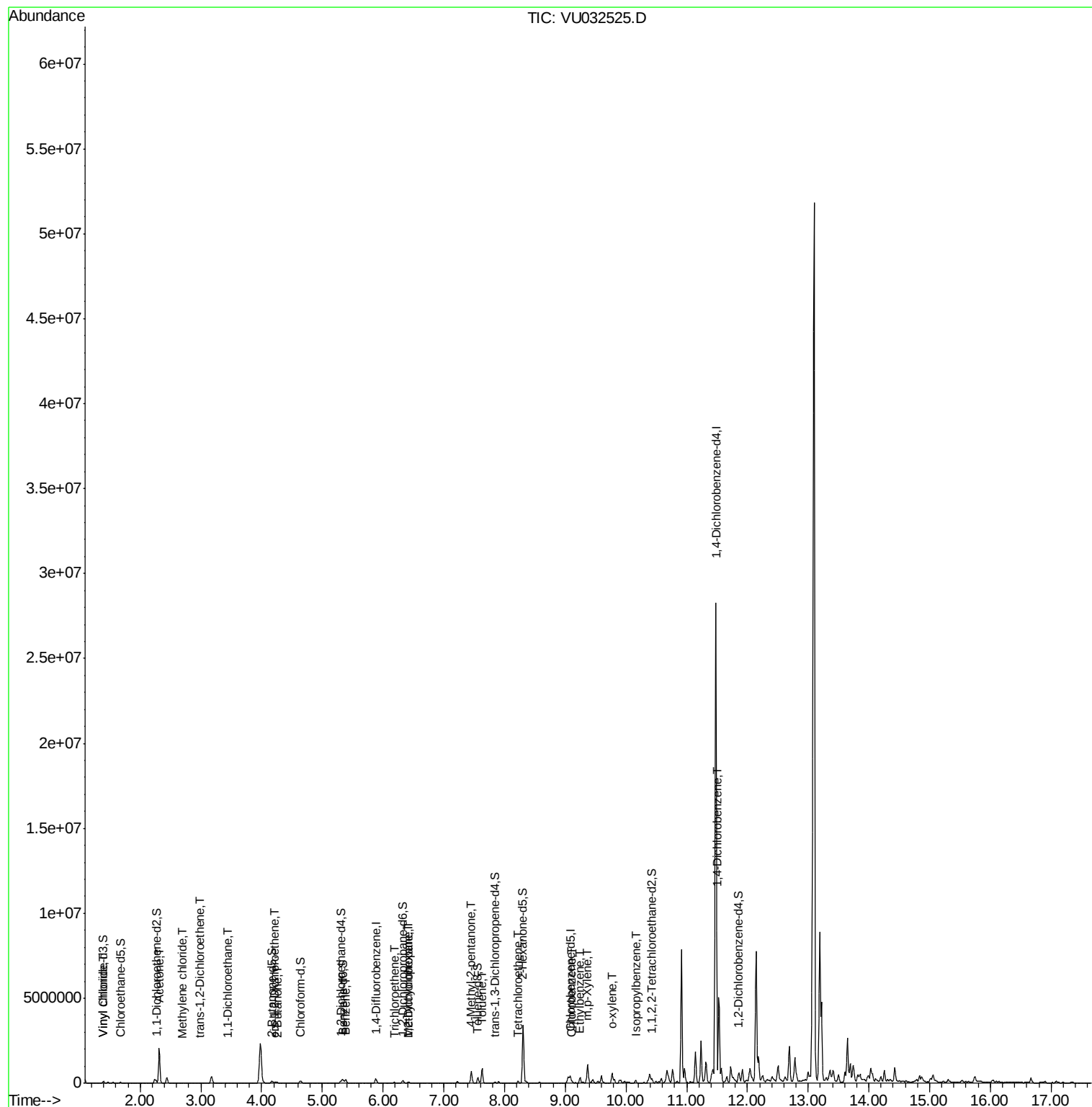
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.77	106	151705	57.179	uq/L	99
56) Isopropylbenzene	10.16	105	88801	12.693	uq/L	99
63) 1,4-Dichlorobenzene	11.50	146	4920	1.324	uq/L #	92

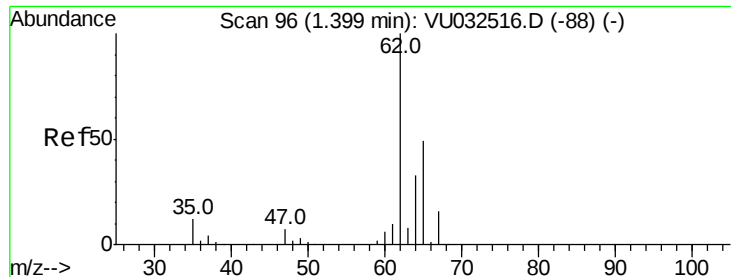
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060619\
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QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 13.614 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampled :

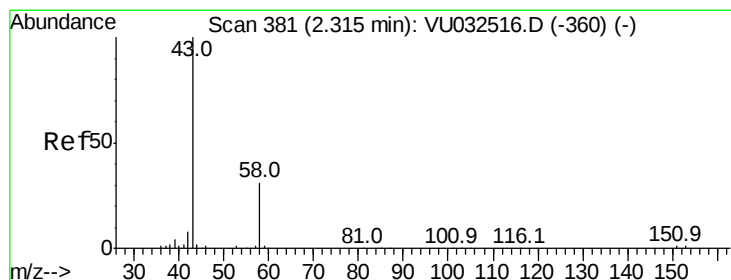
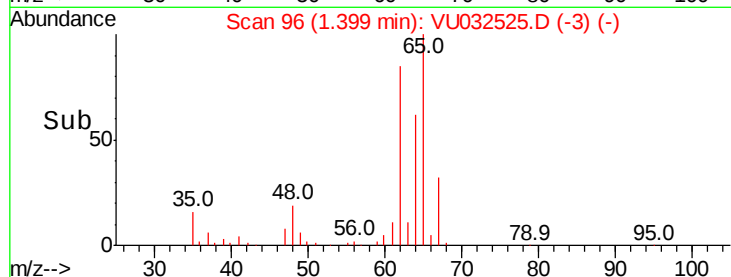
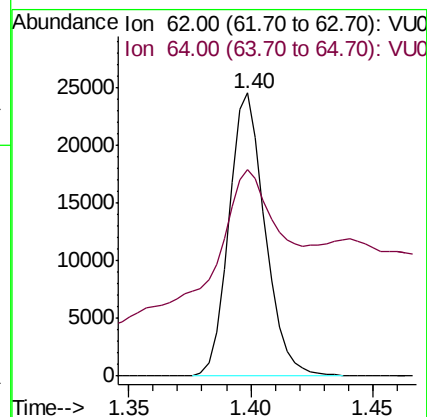
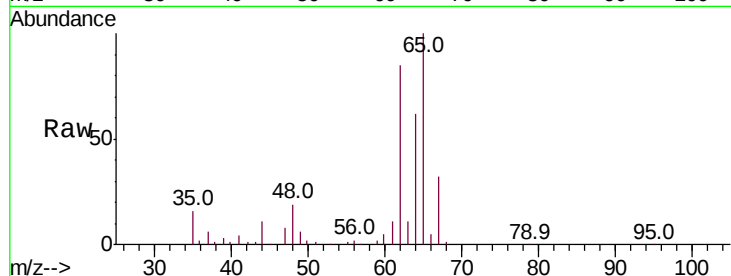
DB8J8

Tot Ion: 62 Resp: 25401

Ion Ratio Lower Upper

62 100

64 73.1 22.6 42.0#



#13

Acetone

Concen: 1703.637 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU032525.D

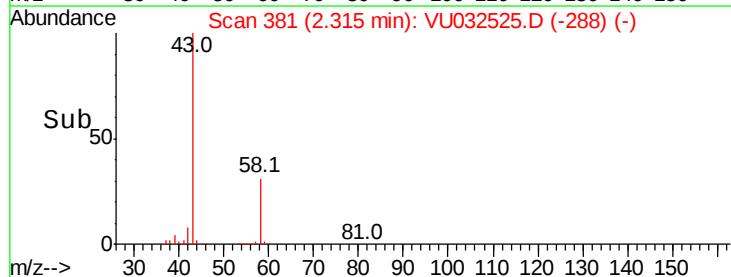
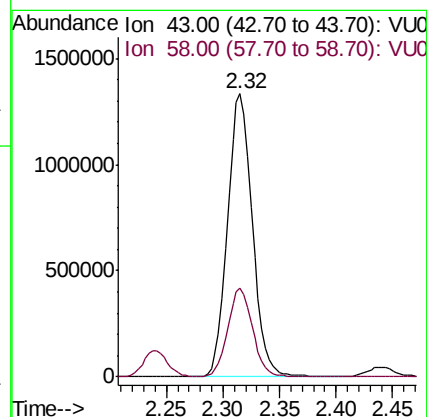
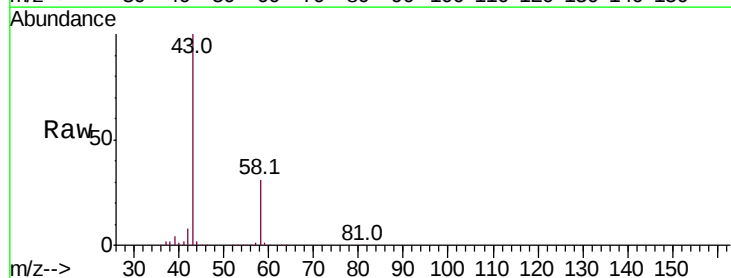
Acq: 07 Jun 2019 02:53

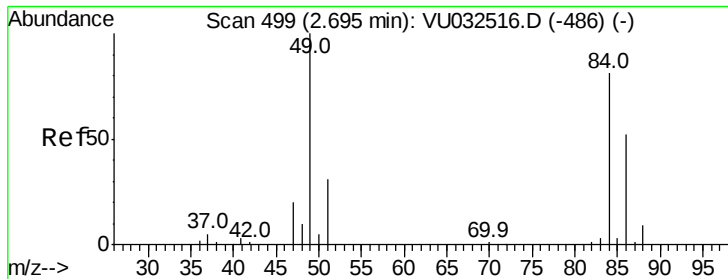
Tgt Ion: 43 Resp: 2046428

Ion Ratio Lower Upper

43 100

58 31.4 0.0 64.0

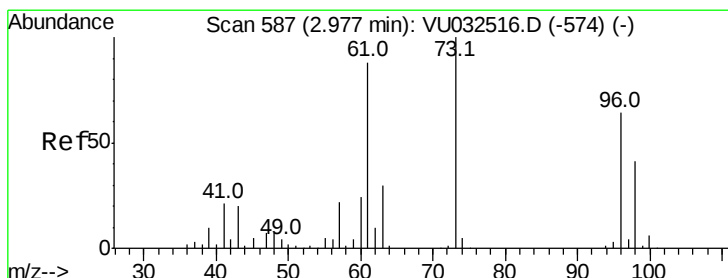
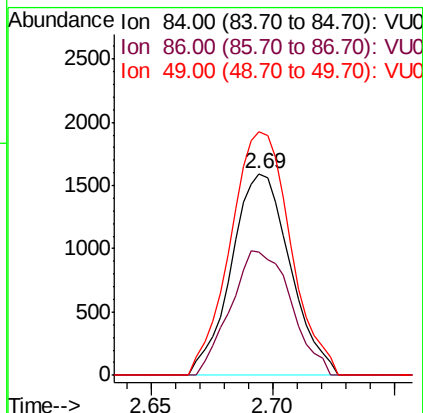
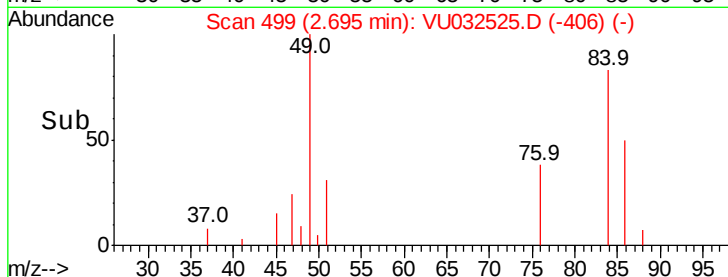
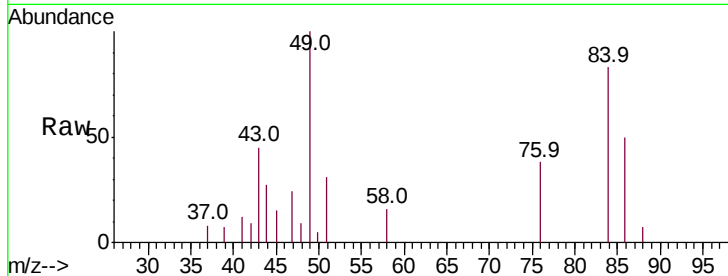




#16
Methvlene chloride
Concen: 1.834 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU032525.D
Acq: 07 Jun 2019 02:53

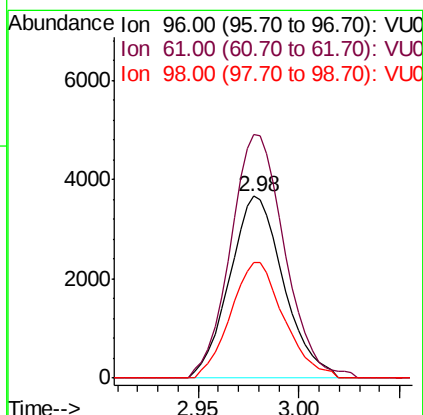
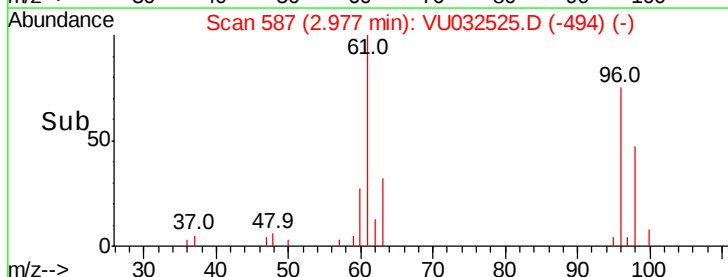
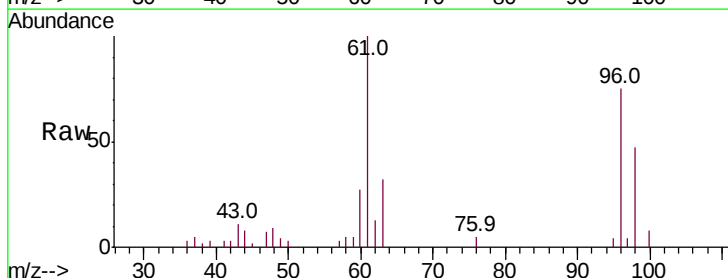
Instrument :
MSVOA_U
ClientSampleId :
DB8J8

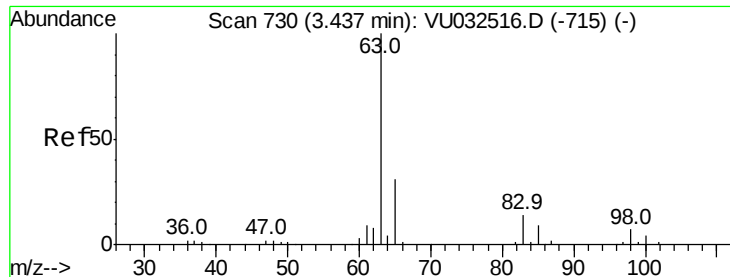
Tot Ion: 84 Resp: 2663
Ion Ratio Lower Upper
84 100
86 61.1 44.7 82.9
49 120.9 86.1 159.9



#17
trans-1,2-Dichloroethene
Concen: 4.979 ug/L
RT: 2.98 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU032525.D
Acq: 07 Jun 2019 02:53

Tgt Ion: 96 Resp: 6865
Ion Ratio Lower Upper
96 100
61 133.7 95.7 177.7
98 63.2 44.0 81.6





#19

1,1-Dichloroethane

Concen: 12.402 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

DB8J8

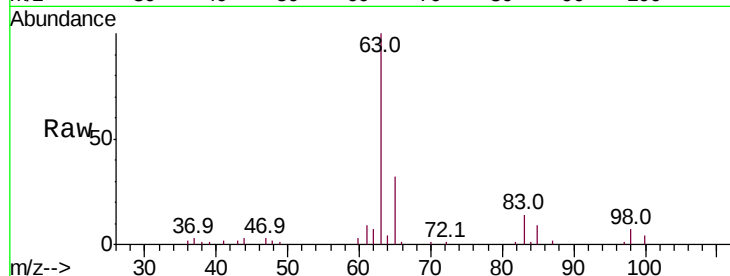
Tot Ion: 63 Resp: 31172

Ion Ratio Lower Upper

63 100

65 31.6 21.8 40.6

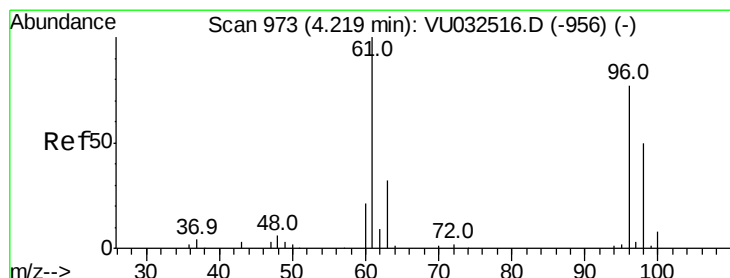
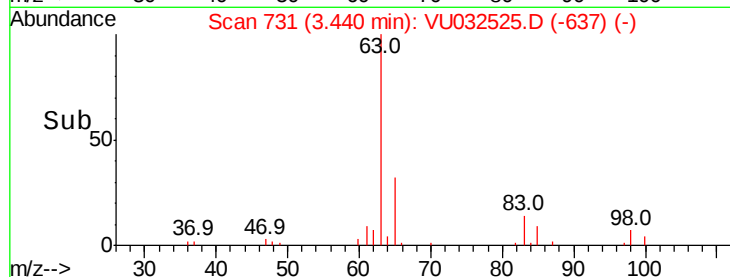
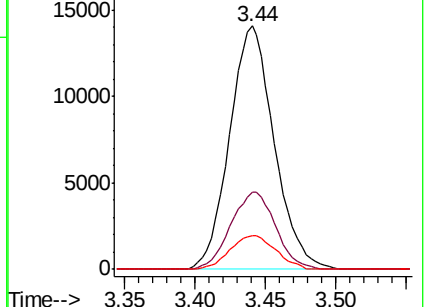
83 13.6 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 11.974 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

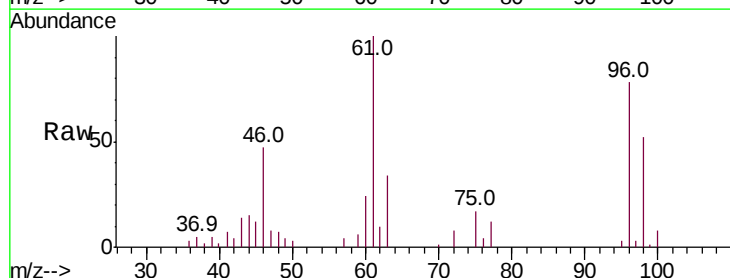
Tgt Ion: 96 Resp: 18683

Ion Ratio Lower Upper

96 100

61 128.6 87.2 162.0

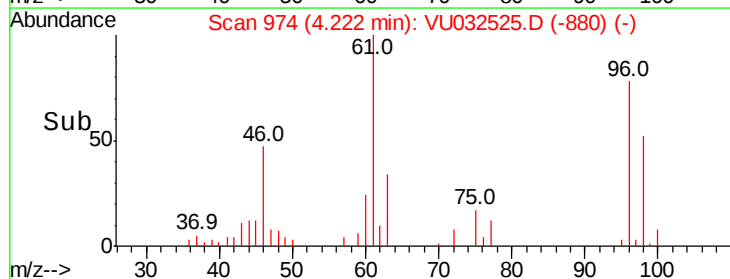
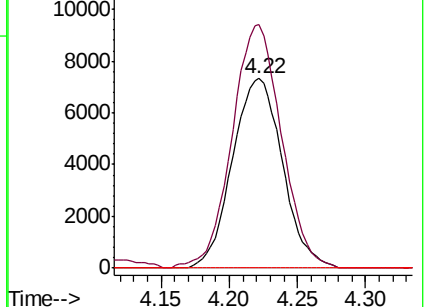
68 0.0 0.0 0.0

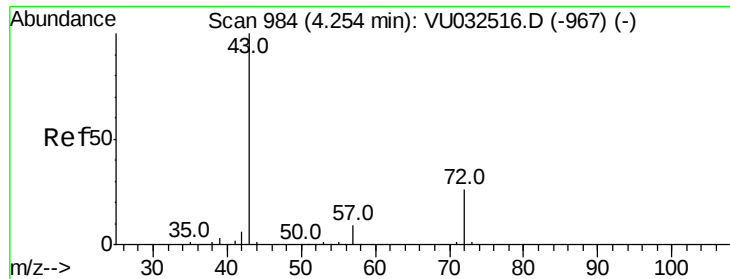


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 33.609 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.01 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

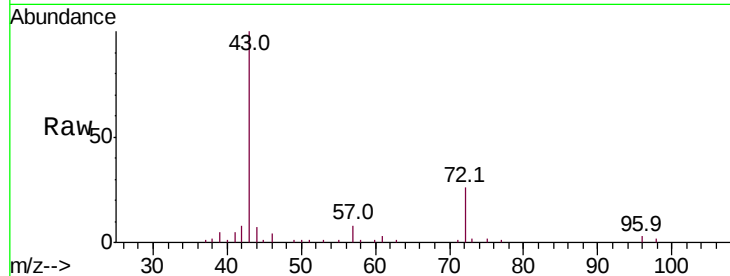
DB8J8

Tot Ion: 43 Resp: 47715

Ion Ratio Lower Upper

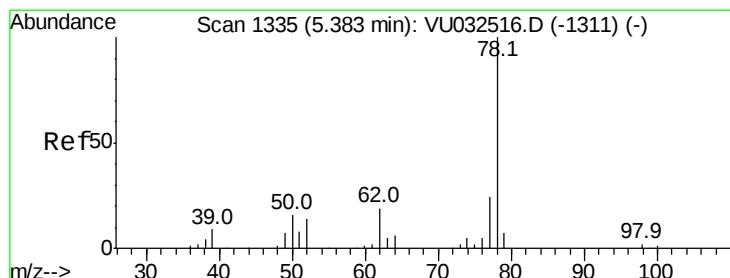
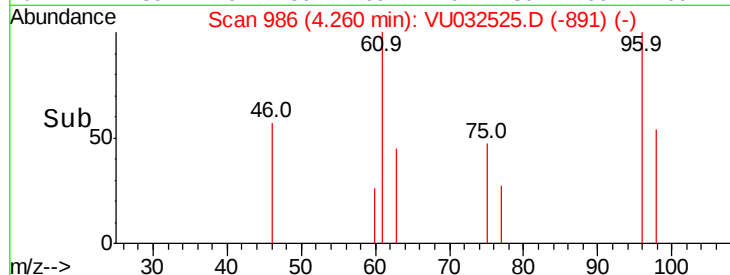
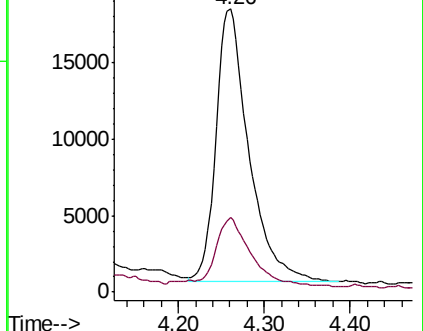
43 100

72 25.6 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VU032516.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU032516.D (-967) (-)



#33

Benzene

Concen: 32.868 ug/L

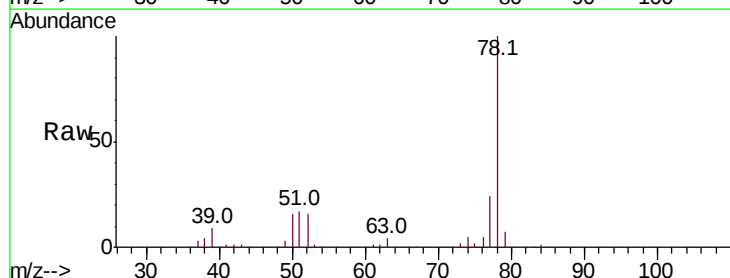
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

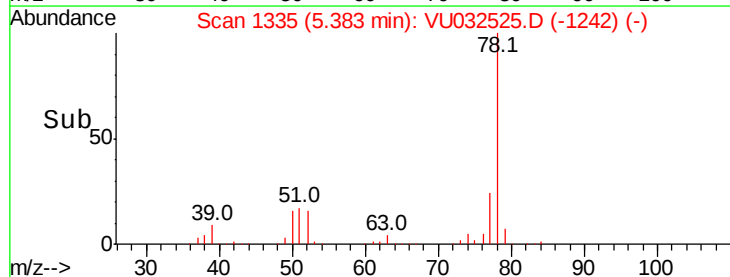
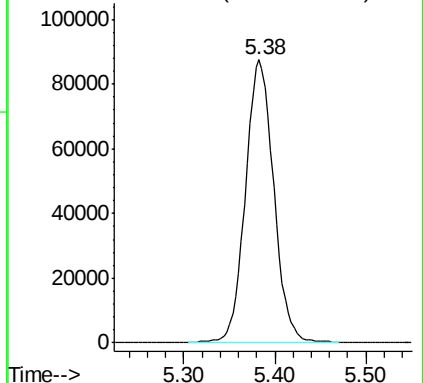
Lab File: VU032525.D

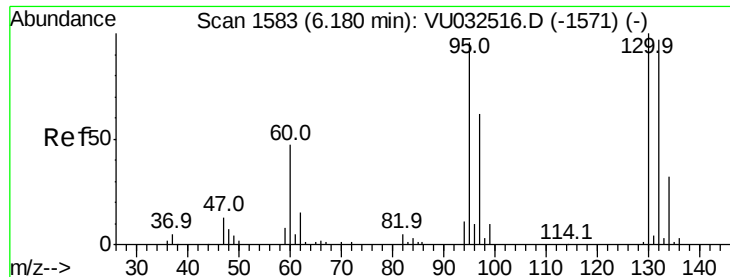
Acq: 07 Jun 2019 02:53

Tgt Ion: 78 Resp: 189207



Abundance Ion 78.00 (77.70 to 78.70): VU032516.D (-1311) (-)





#34

Trichloroethene

Concen: 8.264 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampled :

DB8J8

Tot Ion: 95 Resp: 12943

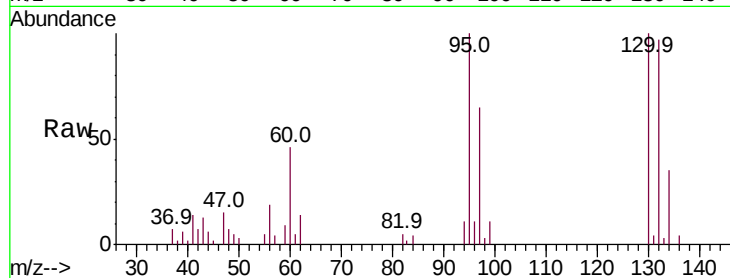
Ion Ratio Lower Upper

95 100

97 65.4 45.8 85.2

132 96.9 71.0 131.8

130 100.0 73.4 136.2

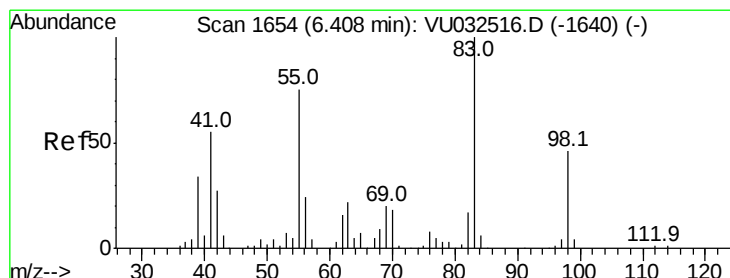
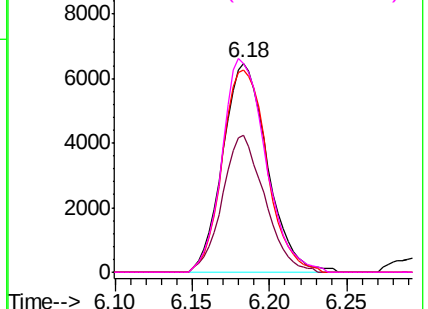
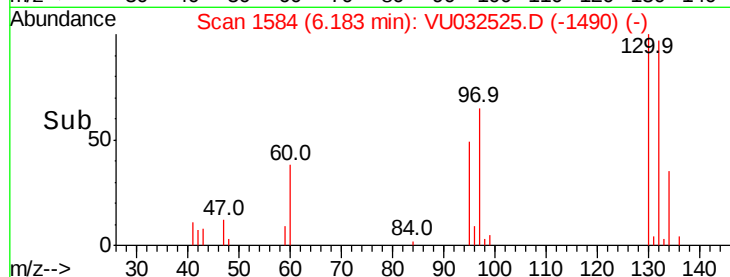


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#35

Methylcyclohexane

Concen: 0.745 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

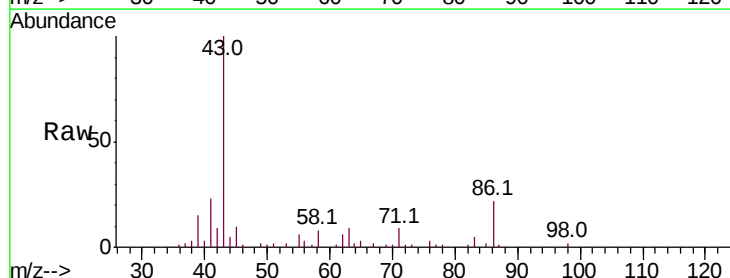
Tgt Ion: 83 Resp: 1888

Ion Ratio Lower Upper

83 100

55 67.6 60.2 90.4

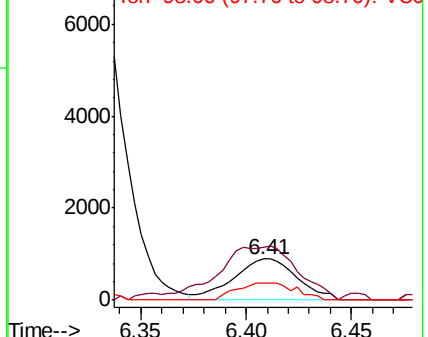
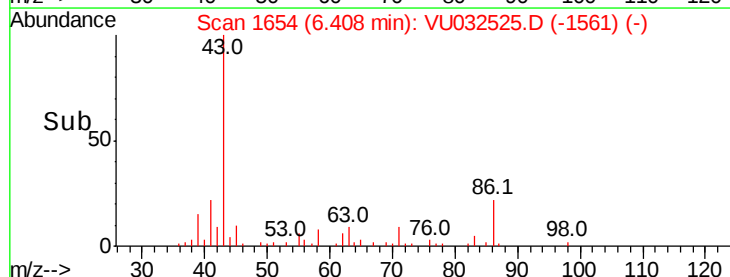
98 31.9 37.4 56.2#

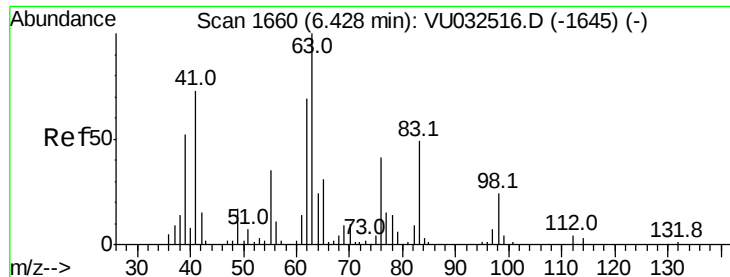


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 6.480 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampled :

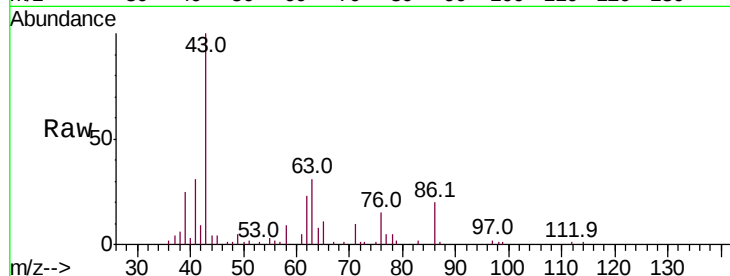
DB8J8

Tot Ion: 63 Resp: 9889

Ion Ratio Lower Upper

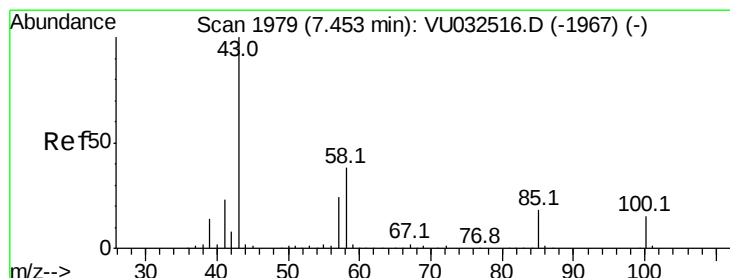
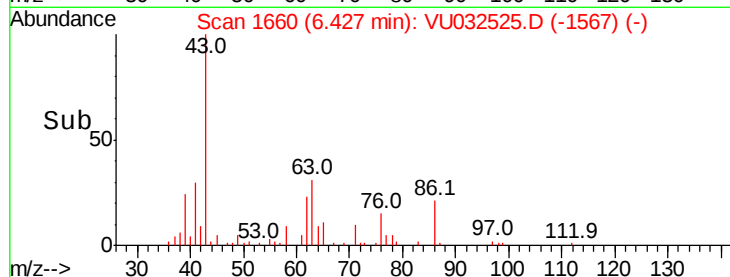
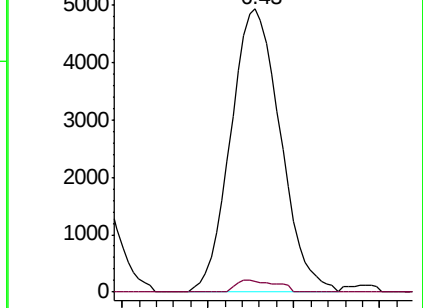
63 100

112 2.6 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU032516.D (-1645) (-)

Ion 112.00 (111.70 to 112.70): VU032516.D (-1645) (-)



#40

4-Methyl-2-pentanone

Concen: 196.264 ug/L

RT: 7.45 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

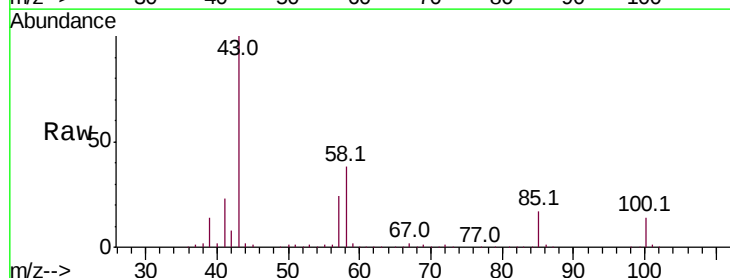
Tgt Ion: 43 Resp: 481828

Ion Ratio Lower Upper

43 100

58 37.7 30.8 46.2

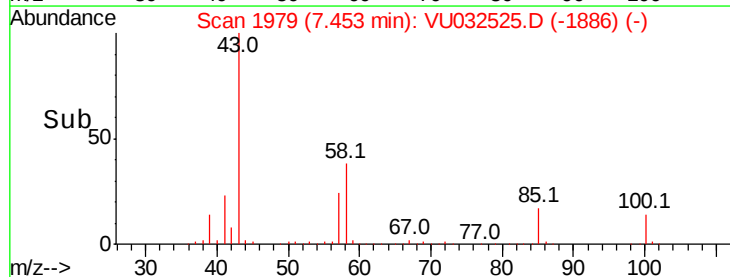
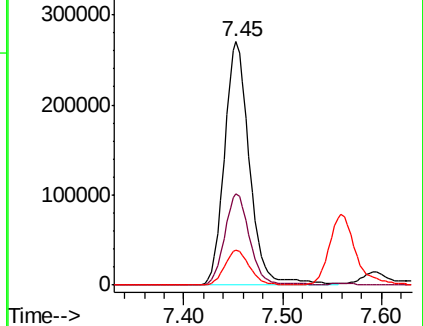
100 14.3 12.1 18.1

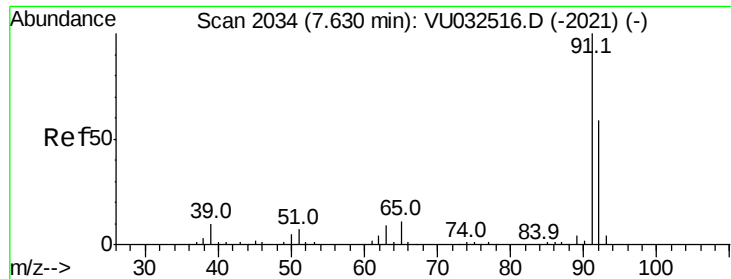


Abundance Ion 43.00 (42.70 to 43.70): VU032516.D (-1967) (-)

Ion 58.00 (57.70 to 58.70): VU032516.D (-1967) (-)

Ion 100.00 (99.70 to 100.70): VU032516.D (-1967) (-)





#42

Toluene

Concen: 95.055 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

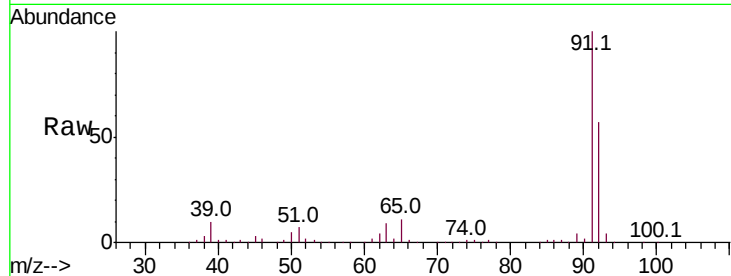
DB8J8

Tot Ion: 91 Resp: 599274

Ion Ratio Lower Upper

91 100

92 57.4 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU032516.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU032516.D (-2021) (-)

7.63

400000

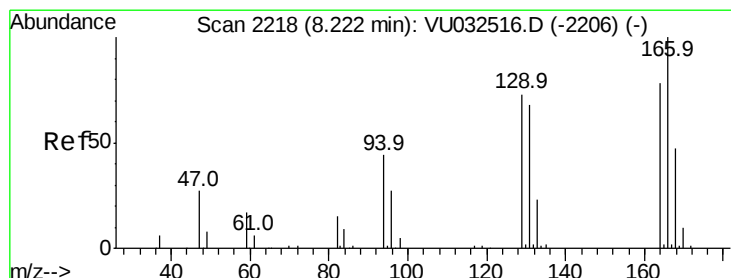
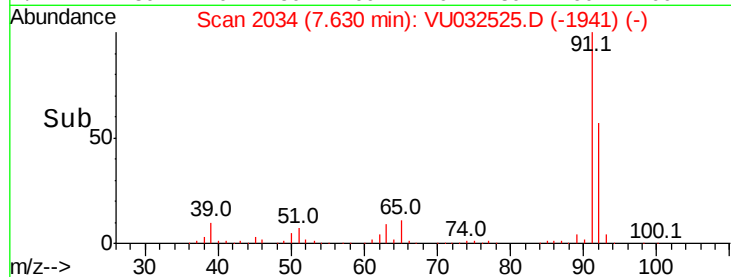
300000

200000

100000

0

Time-->



#46

Tetrachloroethene

Concen: 4.031 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Tgt Ion:164 Resp: 5214

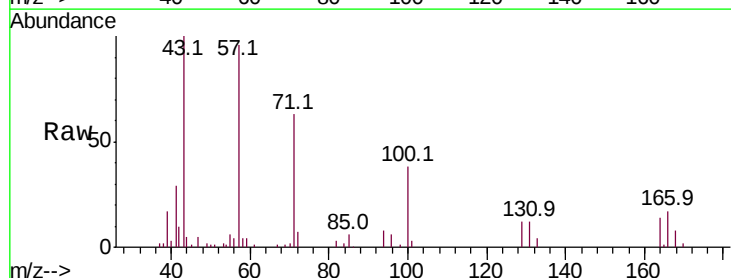
Ion Ratio Lower Upper

164 100

129 91.6 65.3 121.3

131 91.2 64.0 119.0

166 125.1 88.8 165.0



Abundance Ion 164.00 (163.70 to 164.70): VU032516.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU032516.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU032516.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU032516.D (-2206) (-)

8.22

6000

5000

4000

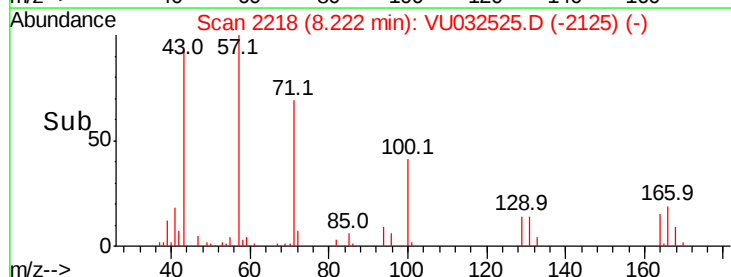
3000

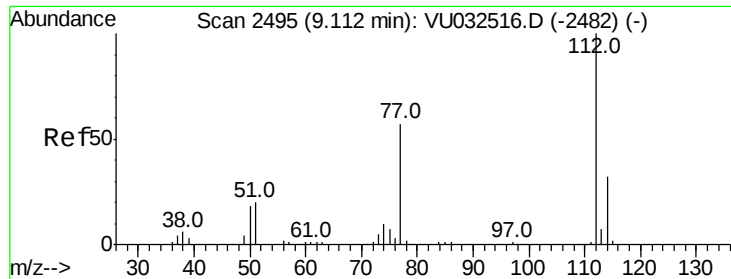
2000

1000

0

Time-->





#51

Chlorobenzene

Concen: 6.572 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

DB8J8

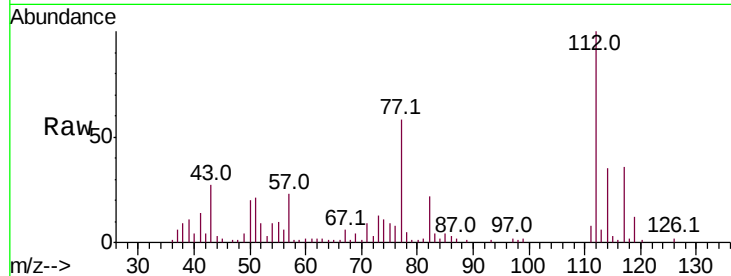
Tot Ion:112 Resp: 26694

Ion Ratio Lower Upper

112 100

114 34.7 22.6 42.0

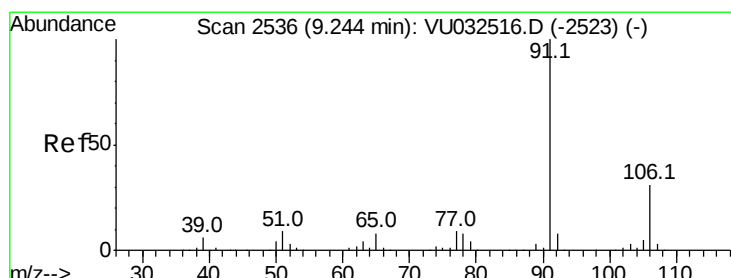
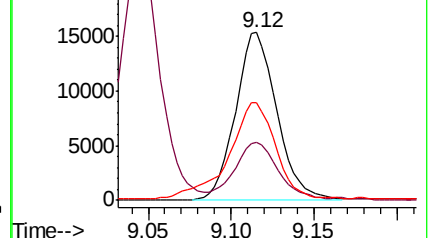
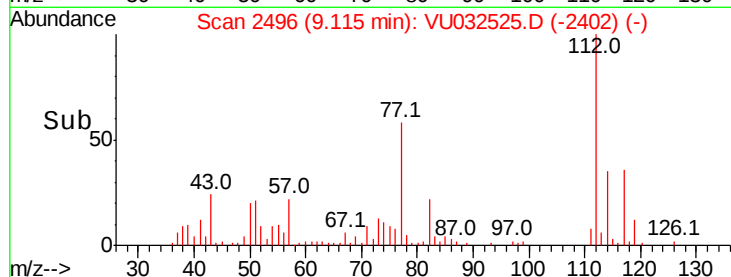
77 57.9 46.1 69.1



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): V



#52

Ethylbenzene

Concen: 32.033 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032525.D

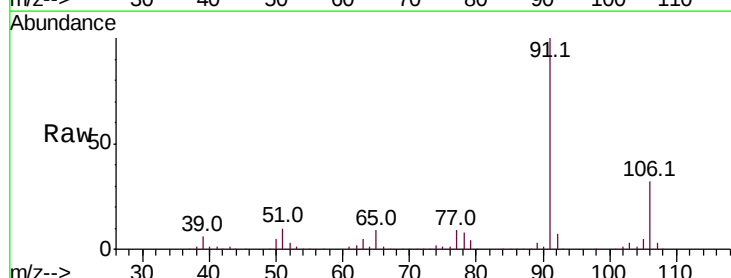
Acq: 07 Jun 2019 02:53

Tgt Ion: 91 Resp: 225104

Ion Ratio Lower Upper

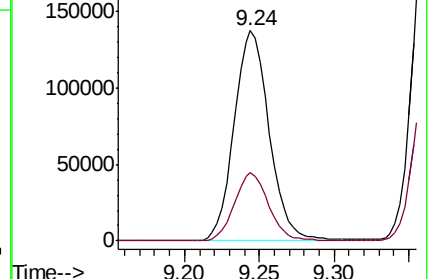
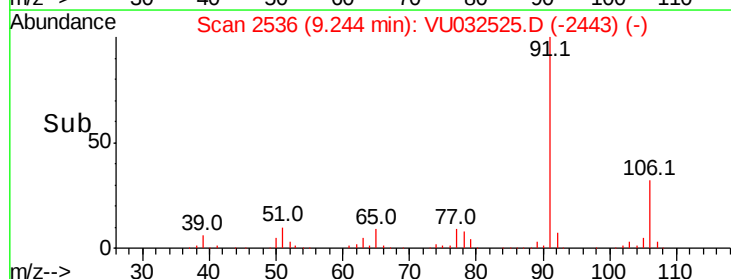
91 100

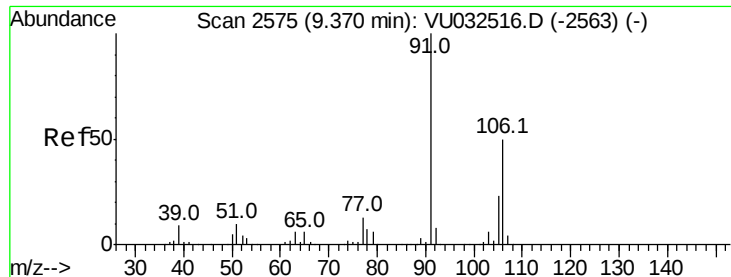
106 32.4 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 93.161 ug/L

RT: 9.37 min Scan# 2574

Delta R.T. -0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

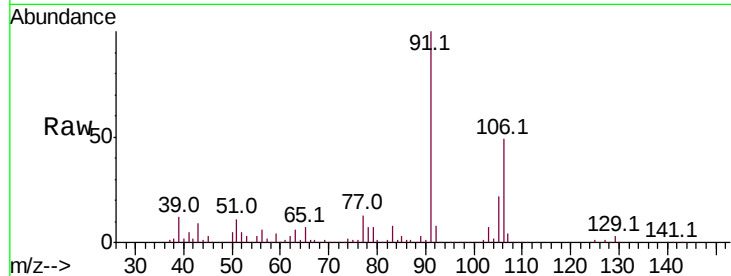
DB8J8

Tot Ion:106 Resp: 248943

Ion Ratio Lower Upper

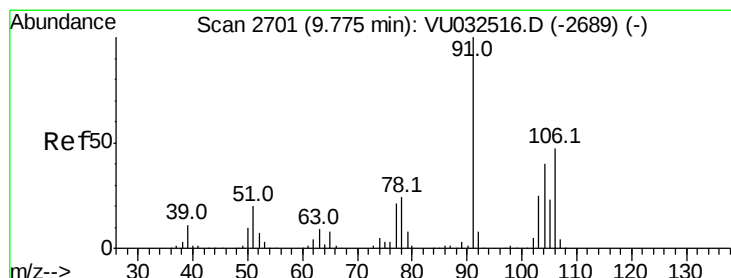
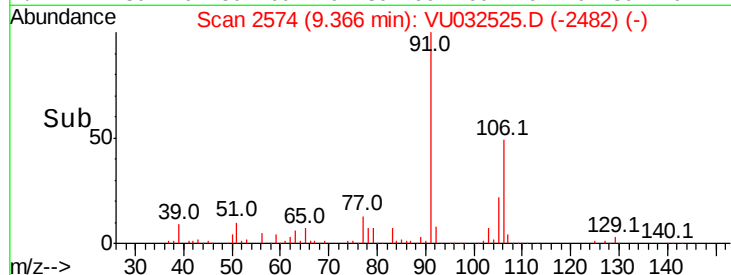
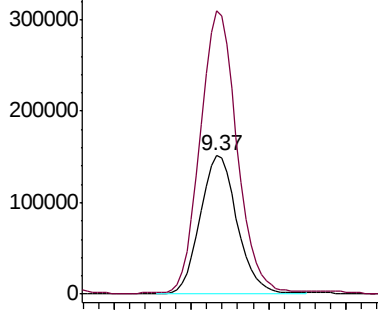
106 100

91 204.5 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 57.179 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU032525.D

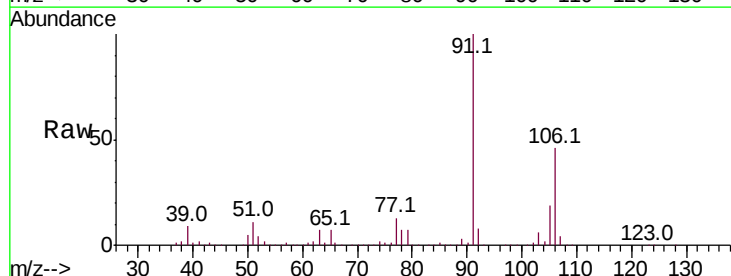
Acq: 07 Jun 2019 02:53

Tgt Ion:106 Resp: 151705

Ion Ratio Lower Upper

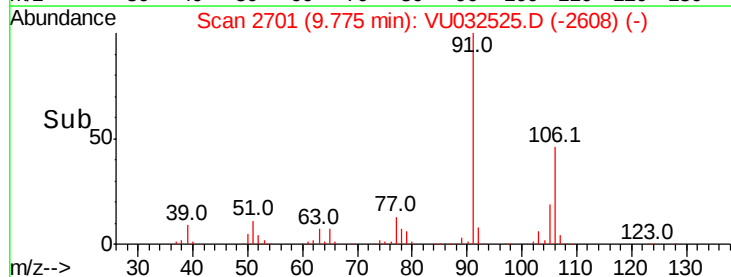
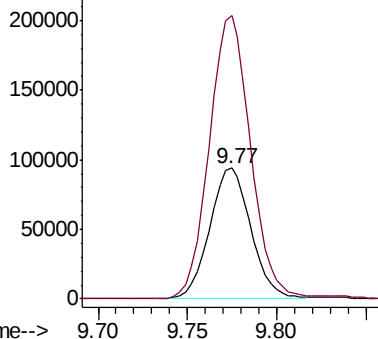
106 100

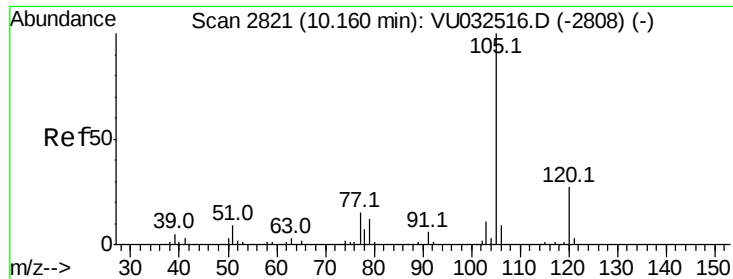
91 216.6 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 12.693 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

DB8J8

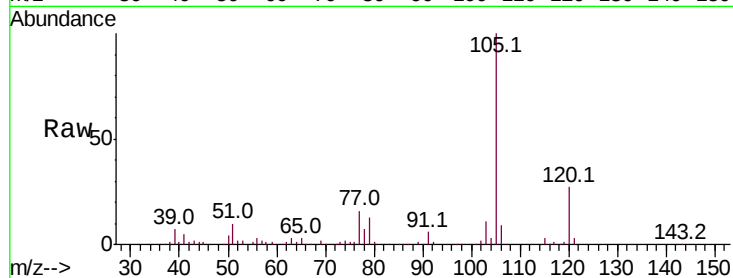
Tot Ion:105 Resp: 88801

Ion Ratio Lower Upper

105 100

120 26.4 21.6 32.4

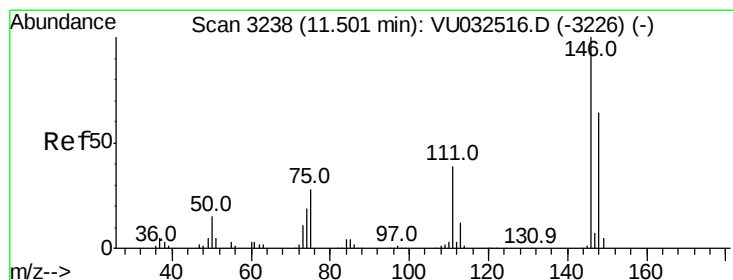
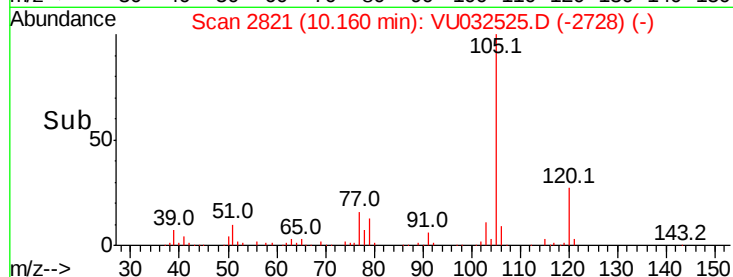
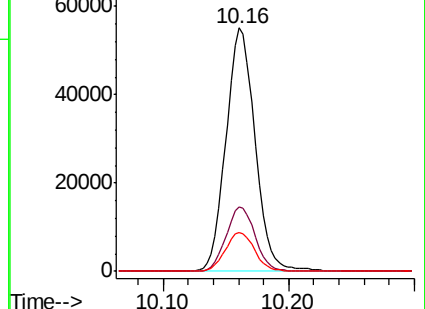
77 16.0 12.4 18.6



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



#63

1,4-Dichlorobenzene

Concen: 1.324 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032525.D

Acq: 07 Jun 2019 02:53

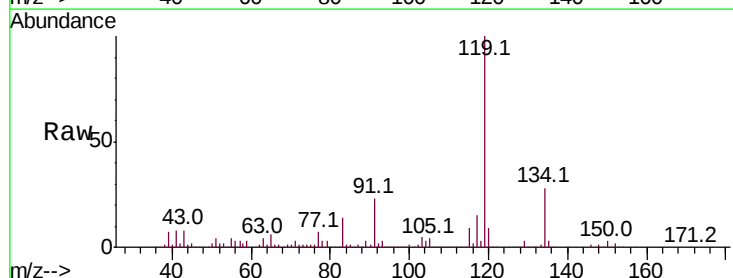
Tgt Ion:146 Resp: 4920

Ion Ratio Lower Upper

146 100

111 49.4 26.6 49.4#

148 62.5 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

