

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040819\
 Data File : VV010195.D
 Acq On : 09 Apr 2019 01:03
 Operator : SY/MD
 Sample : K2254-07
 Misc : 6.19G/10mL/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFC28

Quant Time: Apr 09 07:39:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 09 07:35:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	277920	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	233784	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	90616	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	57322	15.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	61.64%
7) Chloroethane-d5	1.57	69	87885	19.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.08%
10) 1,1-Dichloroethene-d2	2.12	63	121994	13.00	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	52.00%
20) 2-Butanone-d5	3.93	46	44910	42.42	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.84%
24) Chloroform-d	4.40	84	141588	20.22	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	80.88%
26) 1,2-Dichloroethane-d4	5.08	65	87341	22.30	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.20%
29) Benzene-d6	5.09	84	292280	24.11	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.44%
33) 1,2-Dichloropropane-d6	6.12	67	93525	26.14	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	104.56%
37) Toluene-d8	7.36	98	258370	22.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.48%
38) trans-1,3-Dichloropropene-	7.66	79	22250	14.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	58.20%
39) 2-Hexanone-d5	8.13	63	31388	43.74	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.48%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	68691	19.47	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	77.88%
61) 1,2-Dichlorobenzene-d4	11.67	152	76496	21.67	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.68%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.53	62	4560	1.169	ug/L	95
13) Acetone	2.19	43	26929	25.726	ug/L	98
14) Carbon disulfide	2.31	76	3101	0.393	ug/L #	78
15) Methyl Acetate	2.45	43	1548	0.924	ug/L #	56
16) Methylene chloride	2.53	84	22674	4.644	ug/L	90
17) Methyl tert-butyl Ether	2.80	73	41383	5.085	ug/L #	1
21) 2-Butanone	4.04	43	5538	4.831	ug/L #	72
25) Chloroform	4.42	83	12761	2.019	ug/L	76
30) Cyclohexane	4.72	56	108436	25.695	ug/L	85
34) Benzene	5.14	78	77207	6.753	ug/L	100
36) Methylcyclohexane	6.17	83	135911	27.570	ug/L	93
43) 4-Methyl-2-pentanone	7.28	43	15769	7.378	ug/L #	73
44) Toluene	7.43	91	89096	6.944	ug/L	98
53) Ethylbenzene	9.05	91	1757424	124.908	ug/L	100
54) m,p-Xylene	9.18	106	372308	67.986	ug/L	98
55) o-xylene	9.59	106	285524	53.817	ug/L	94
56) Styrene	9.59	104	22434	2.556	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Tue Apr 09 07:35:38 2019
Response via : Initial Calibration

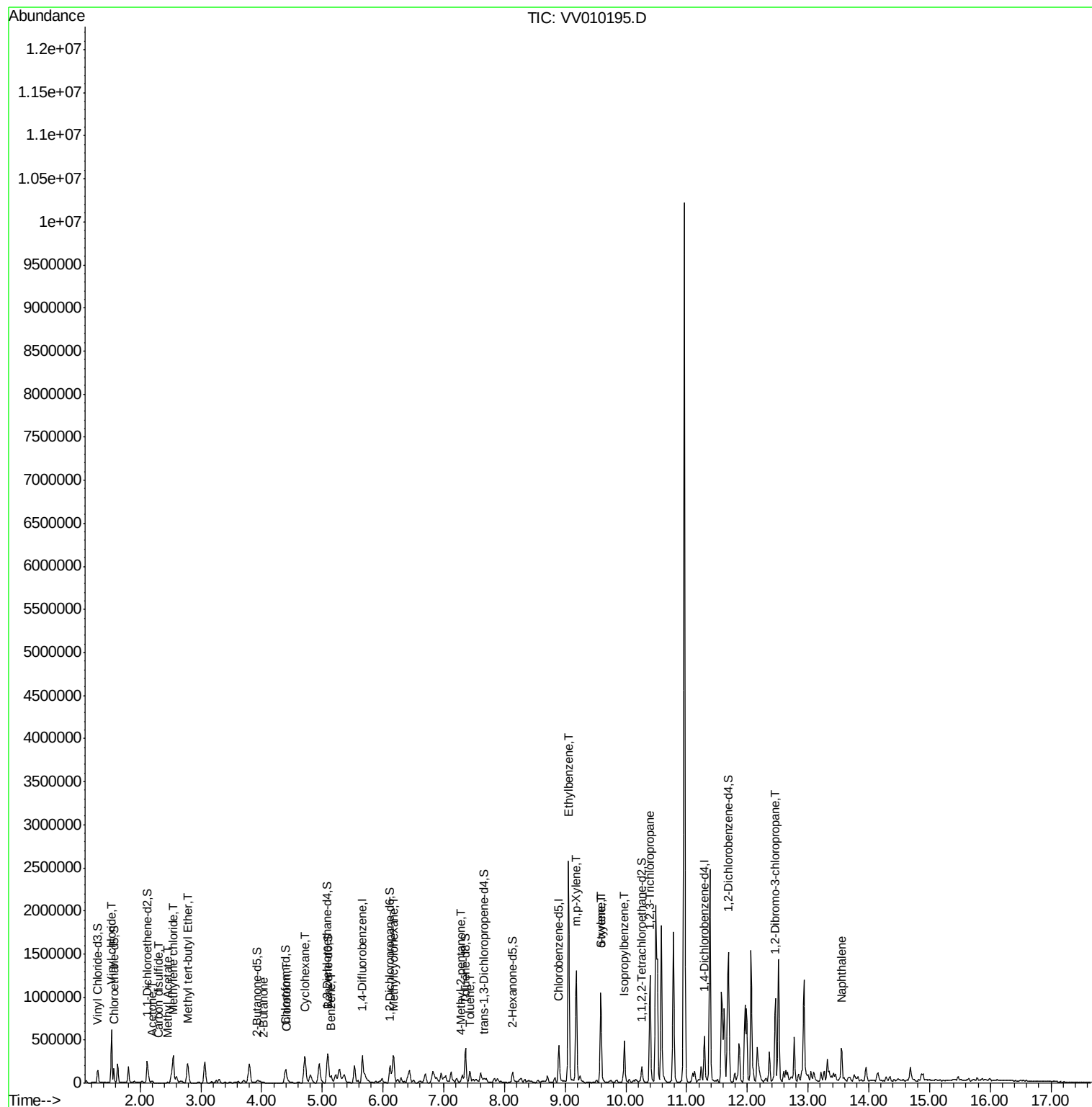
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Isopropylbenzene	9.97	105	305242	21.816	ug/L	99
59) 1,2,3-Trichloropropane	10.40	75	5723	2.426	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.46	75	3586	10.122	ug/L #	2
69) Naphthalene	13.55	128	299022	59.423	ug/L	98

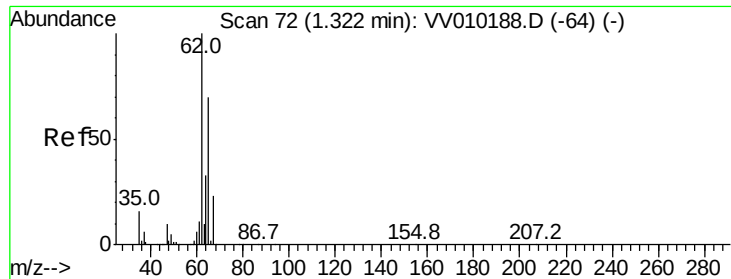
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV040819\
Data File : VV010195.D
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#5

Vinyl chloride

Concen: 1.169 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.21 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampleId :

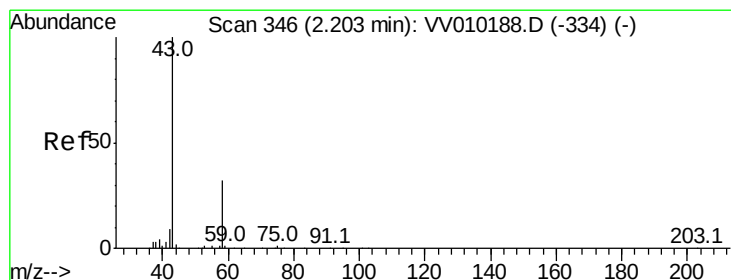
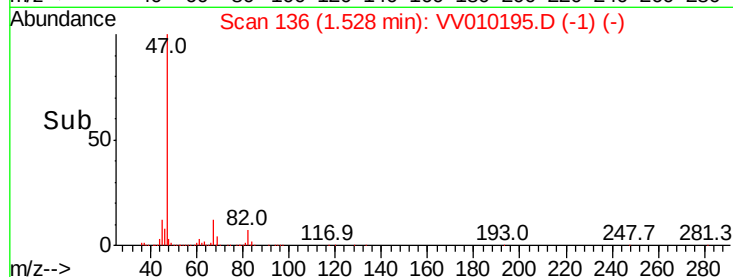
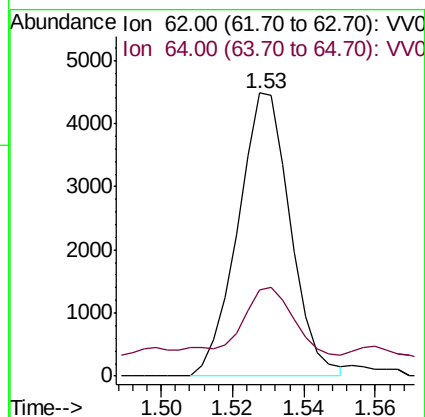
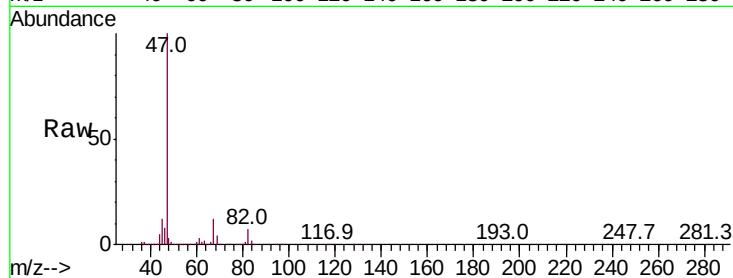
BFC28

Tot Ion: 62 Resp: 4560

Ion Ratio Lower Upper

62 100

64 30.3 23.4 43.4



#13

Acetone

Concen: 25.726 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.01 min

Lab File: VV010195.D

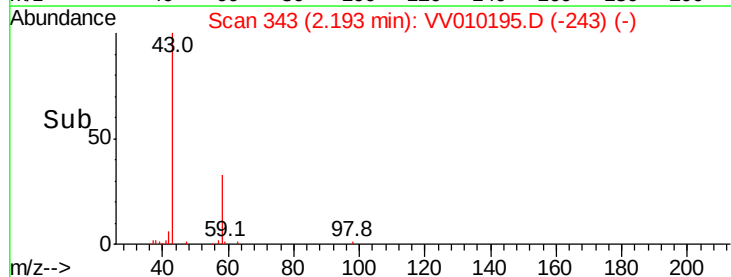
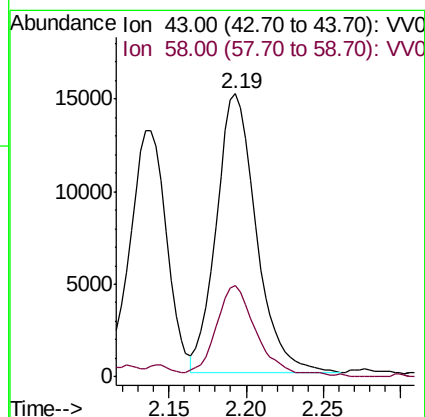
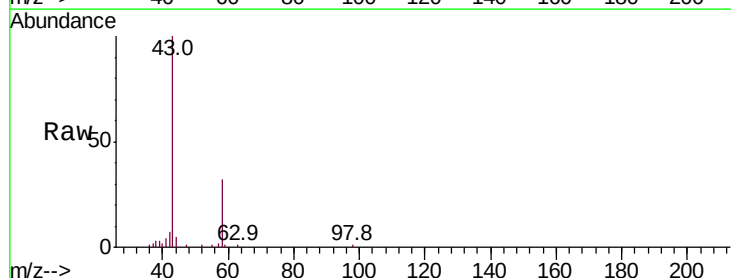
Acq: 09 Apr 2019 01:03

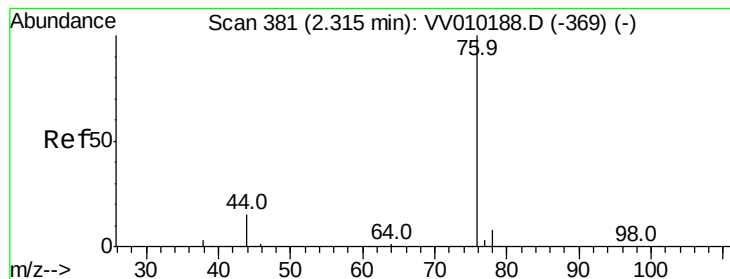
Tgt Ion: 43 Resp: 26929

Ion Ratio Lower Upper

43 100

58 33.5 0.0 64.6





#14

Carbon disulfide

Concen: 0.393 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampleId :

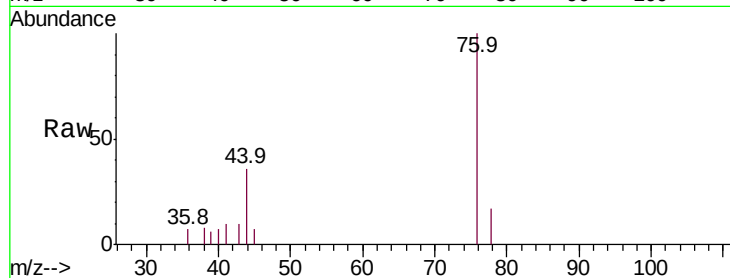
BFC28

Tot Ion: 76 Resp: 3101

Ion Ratio Lower Upper

76 100

78 16.8 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VV010188.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV010188.D (-369) (-)

2.31

2000

1500

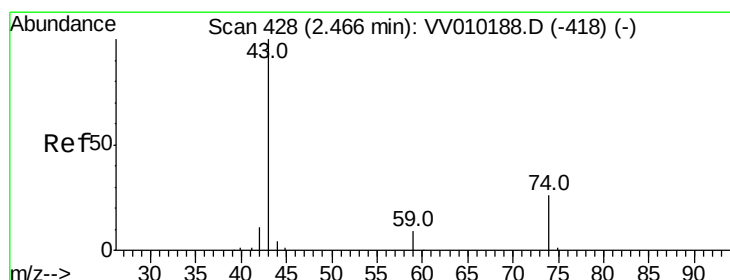
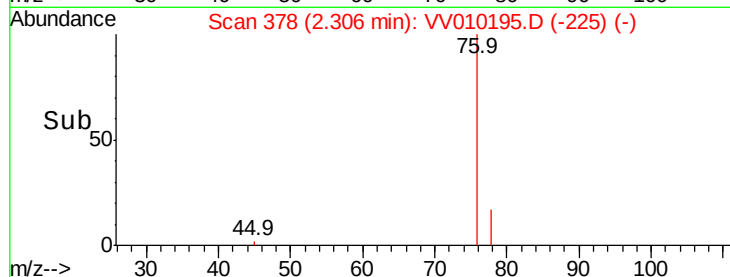
1000

500

0

Time-->

2.25 2.30 2.35



#15

Methyl Acetate

Concen: 0.924 ug/L

RT: 2.45 min Scan# 422

Delta R.T. -0.02 min

Lab File: VV010195.D

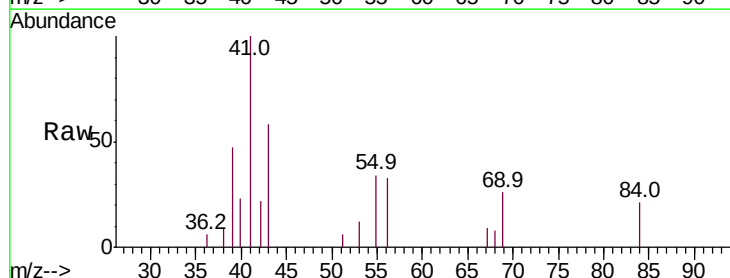
Acq: 09 Apr 2019 01:03

Tgt Ion: 43 Resp: 1548

Ion Ratio Lower Upper

43 100

74 3.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VV010195.D (-325) (-)

Ion 74.00 (73.70 to 74.70): VV010195.D (-325) (-)

2.45

3000

2500

2000

1500

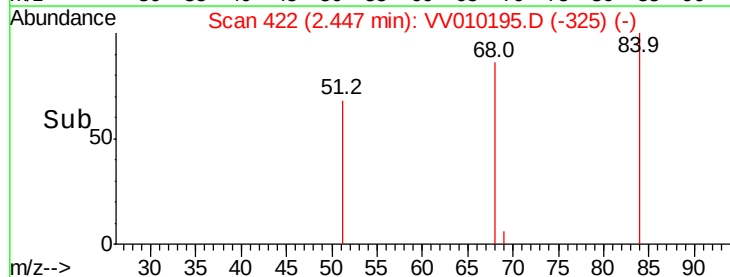
1000

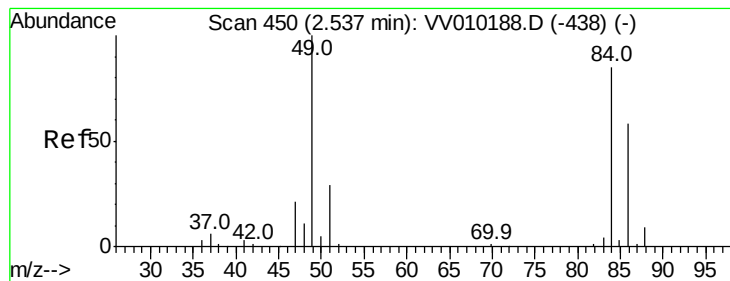
500

0

Time-->

2.42 2.44 2.46





#16

Methylene chloride

Concen: 4.644 ug/L

RT: 2.53 min Scan# 447

Delta R.T. -0.01 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampleId :

BFC28

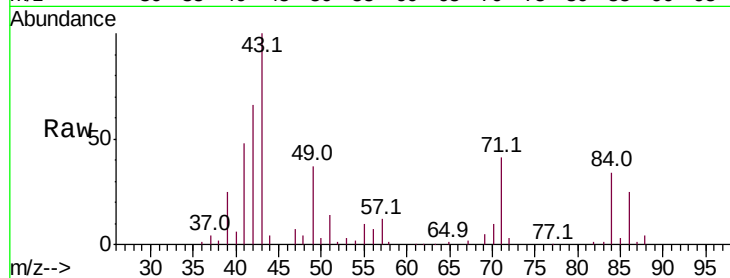
Tot Ion: 84 Resp: 22674

Ion Ratio Lower Upper

84 100

49 110.2 84.3 156.5

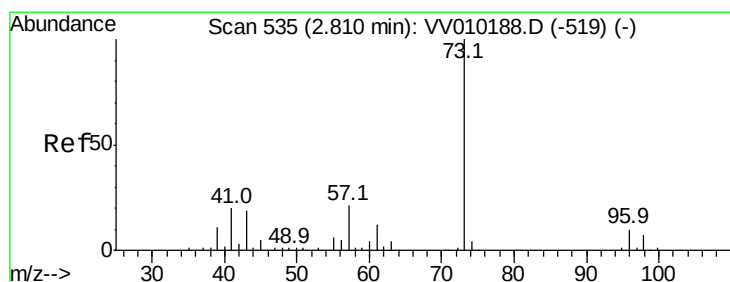
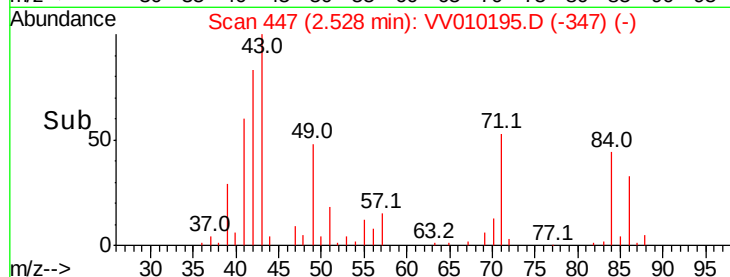
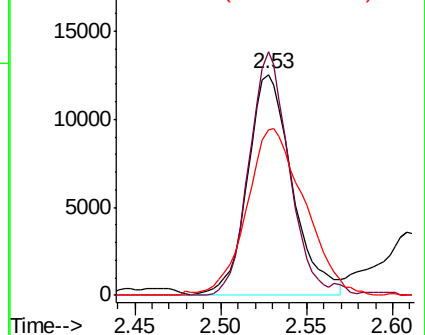
86 74.8 45.4 84.2



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0



#17

Methyl tert-butyl Ether

Concen: 5.085 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.01 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

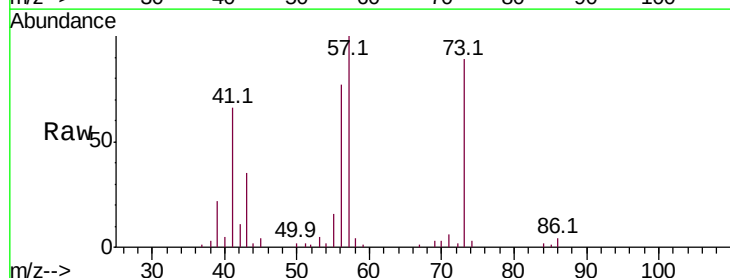
Tgt Ion: 73 Resp: 41383

Ion Ratio Lower Upper

73 100

43 80.4 15.5 23.3#

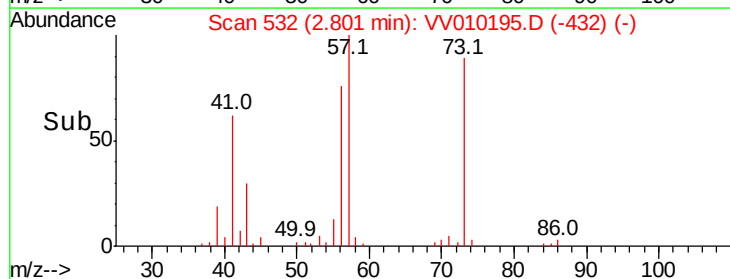
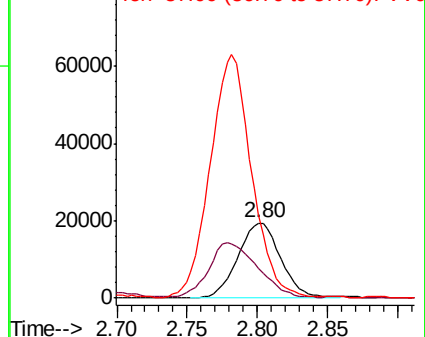
57 308.3 16.8 25.2#

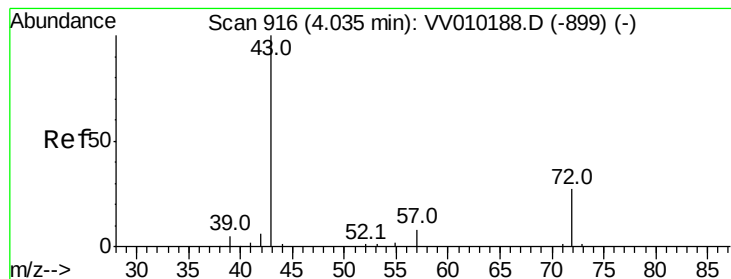


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#21

2-Butanone

Concen: 4.831 ug/L

RT: 4.04 min Scan# 916

Delta R.T. 0.00 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampled :

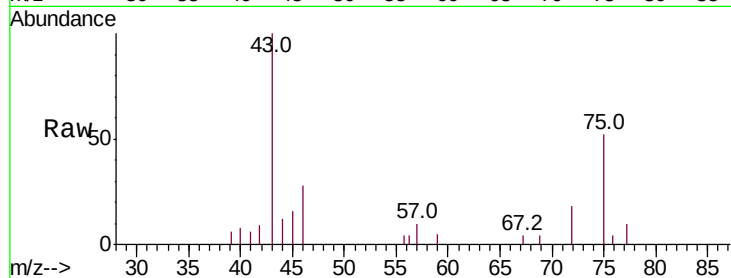
BFC28

Tot Ion: 43 Resp: 5538

Ion Ratio Lower Upper

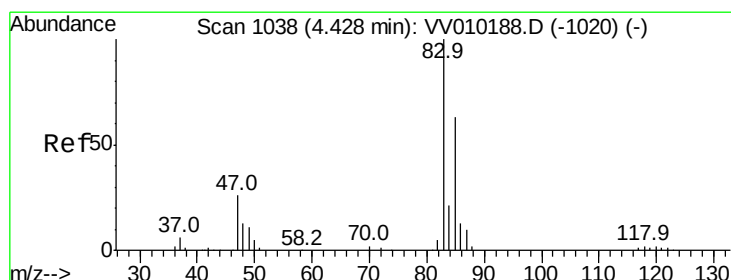
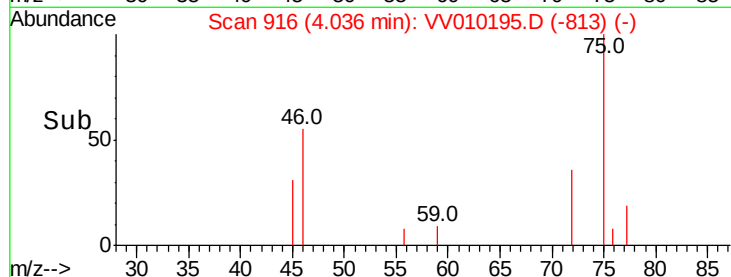
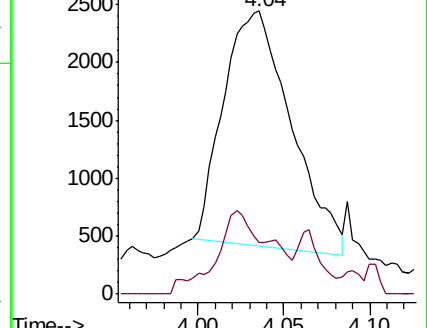
43 100

72 11.4 12.8 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



#25

Chloroform

Concen: 2.019 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VV010195.D

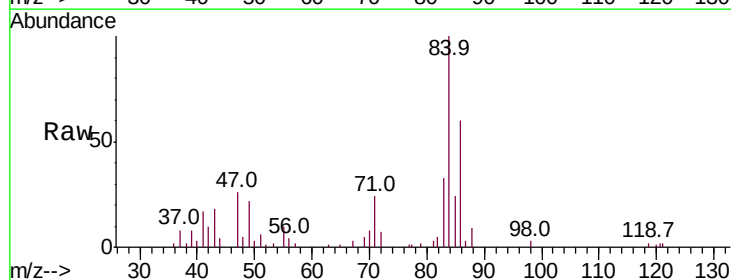
Acq: 09 Apr 2019 01:03

Tgt Ion: 83 Resp: 12761

Ion Ratio Lower Upper

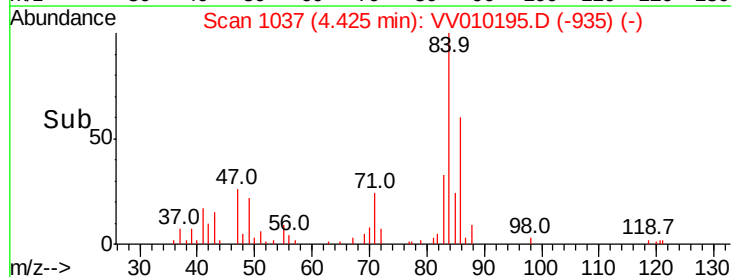
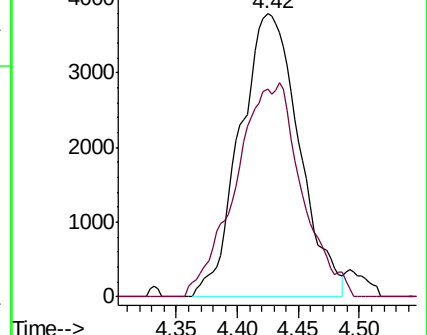
83 100

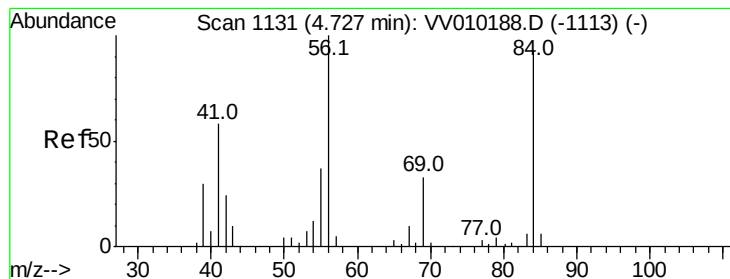
85 47.0 46.4 86.2



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#30

Cyclohexane

Concen: 25.695 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampleId :

BFC28

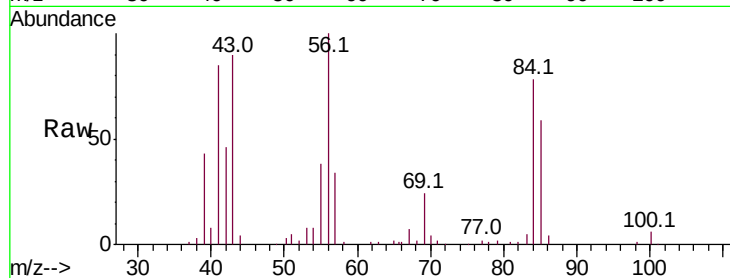
Tot Ion: 56 Resp: 108436

Ion Ratio Lower Upper

56 100

69 26.6 25.1 37.7

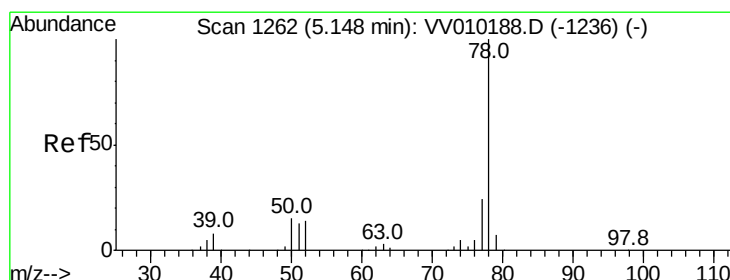
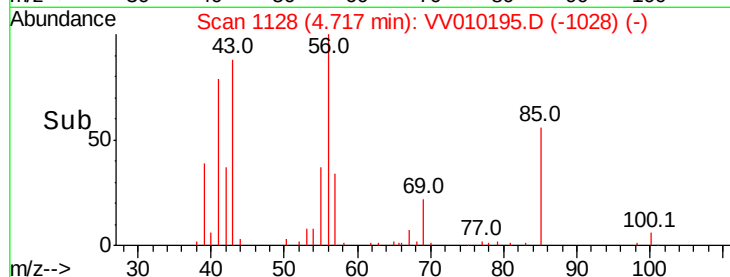
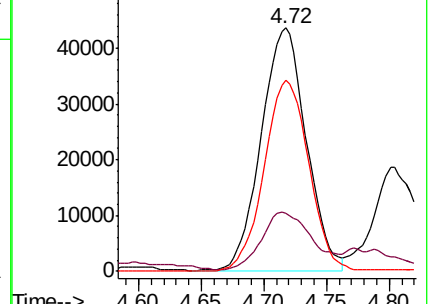
84 78.5 76.0 114.0



Abundance Ion 56.00 (55.70 to 56.70): VV010188.D (-1113) (-)

Ion 69.00 (68.70 to 69.70): VV010188.D (-1113) (-)

Ion 84.00 (83.70 to 84.70): VV010188.D (-1113) (-)



#34

Benzene

Concen: 6.753 ug/L

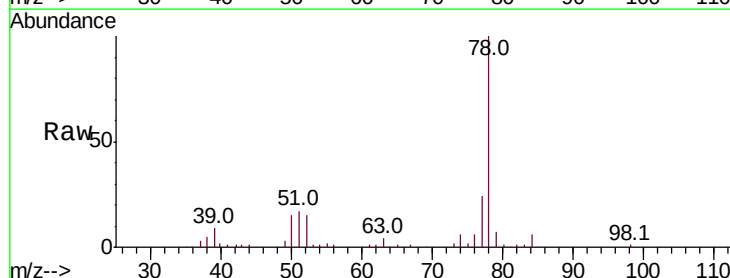
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

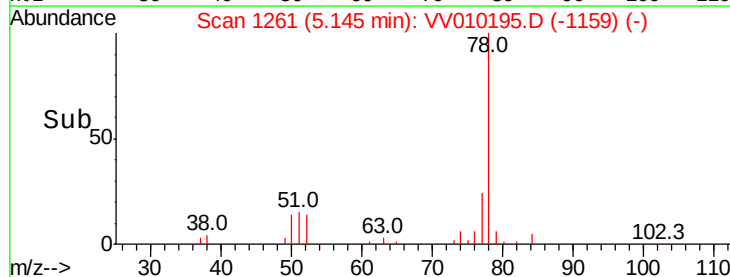
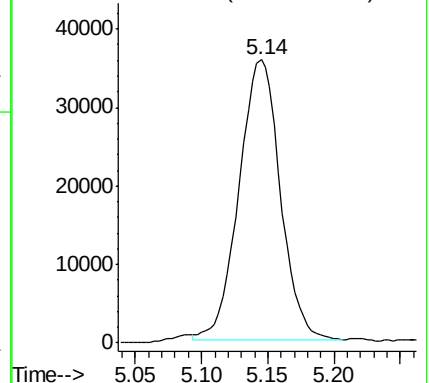
Lab File: VV010195.D

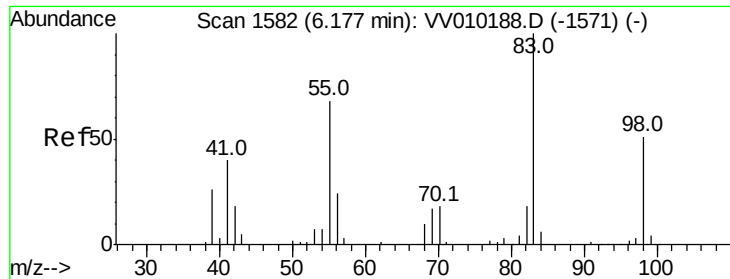
Acq: 09 Apr 2019 01:03

Tgt Ion: 78 Resp: 77207



Abundance Ion 78.00 (77.70 to 78.70): VV010188.D (-1236) (-)

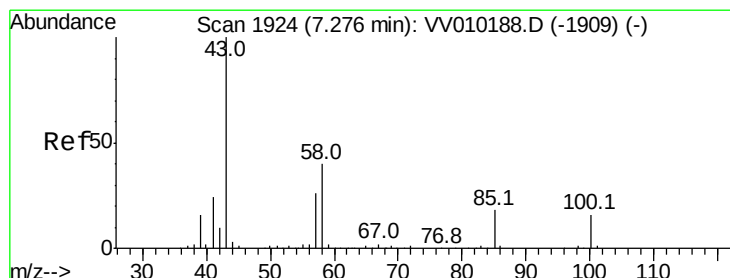
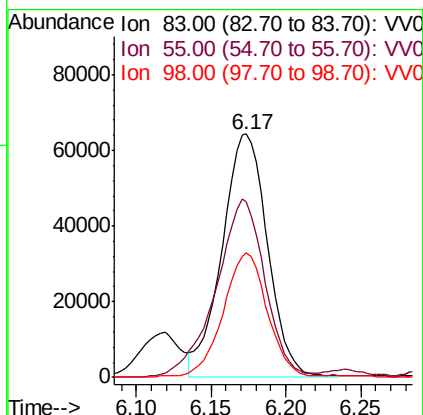
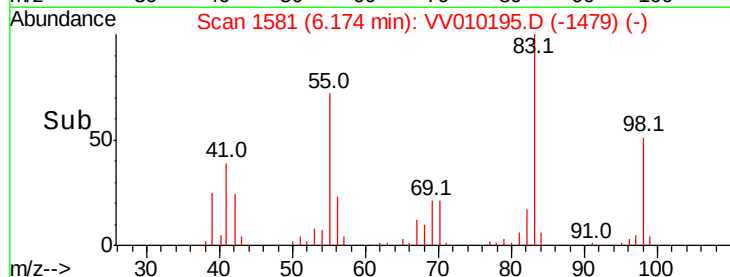
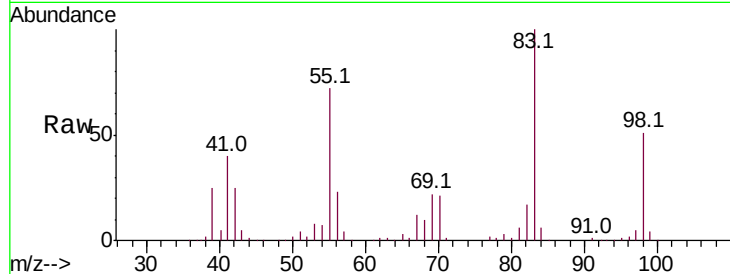




#36
Methylvlcyclohexane
Concen: 27.570 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VV010195.D
Acq: 09 Apr 2019 01:03

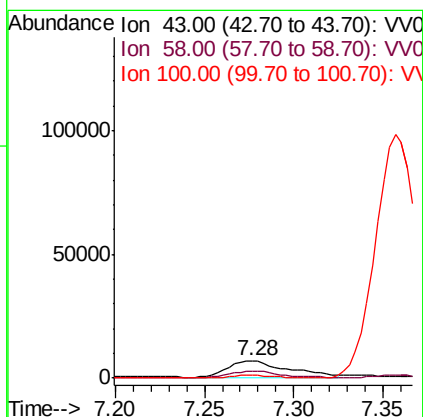
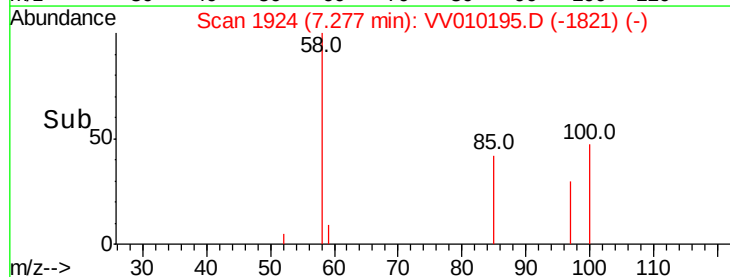
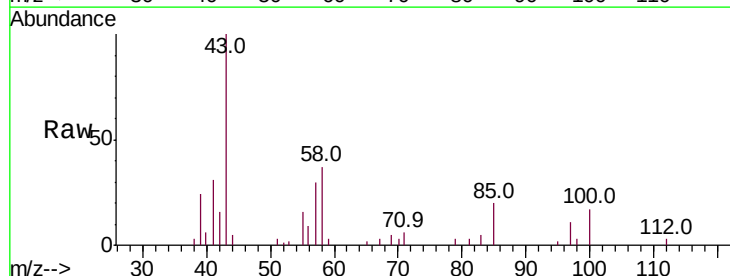
Instrument :
MSVOA_V
ClientSampled :
BFC28

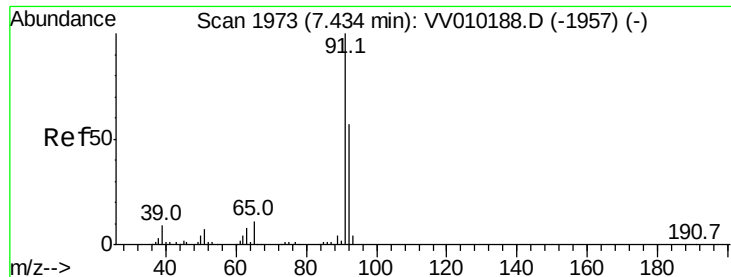
Tot Ion: 83 Resp: 135911
Ion Ratio Lower Upper
83 100
55 78.6 56.3 84.5
98 50.3 39.0 58.6



#43
4-Methyl-2-pentanone
Concen: 7.378 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VV010195.D
Acq: 09 Apr 2019 01:03

Tgt Ion: 43 Resp: 15769
Ion Ratio Lower Upper
43 100
58 17.6 31.5 47.3#
100 13.4 13.4 20.0





#44

Toluene

Concen: 6.944 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampled :

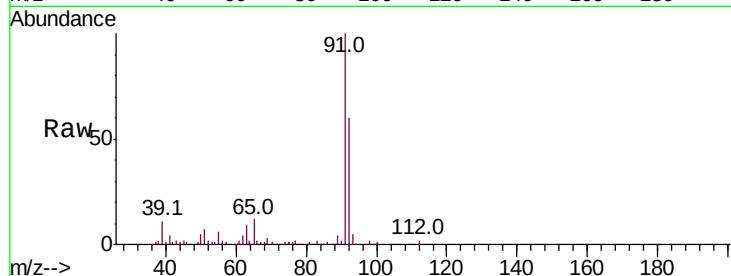
BFC28

Tot Ion: 91 Resp: 89096

Ion Ratio Lower Upper

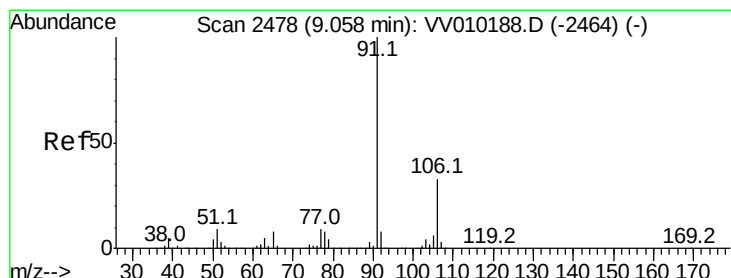
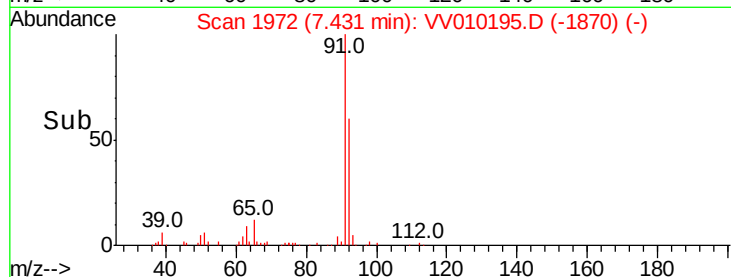
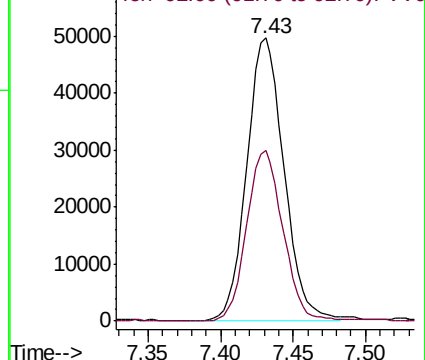
91 100

92 60.1 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#53

Ethylbenzene

Concen: 124.908 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010195.D

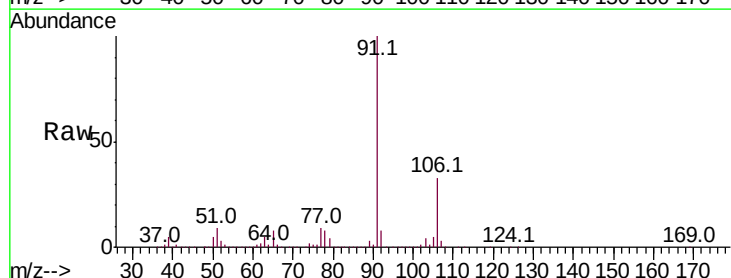
Acq: 09 Apr 2019 01:03

Tgt Ion: 91 Resp: 1757424

Ion Ratio Lower Upper

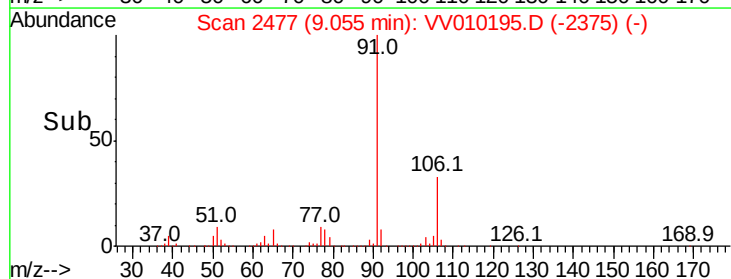
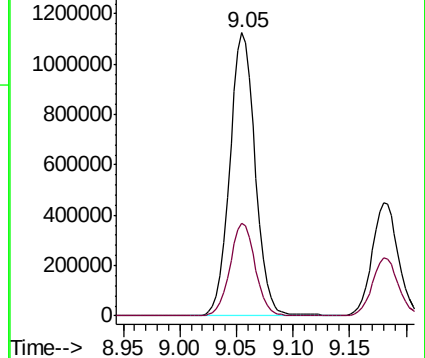
91 100

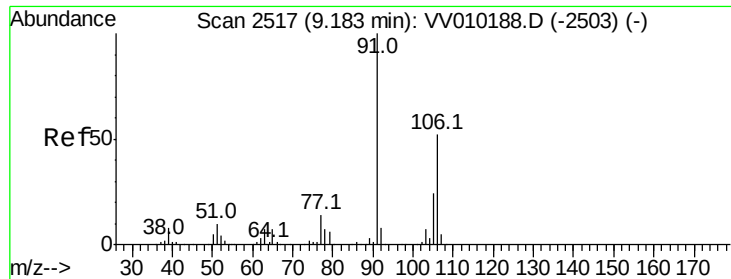
106 32.7 23.1 42.9



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 67.986 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampleId :

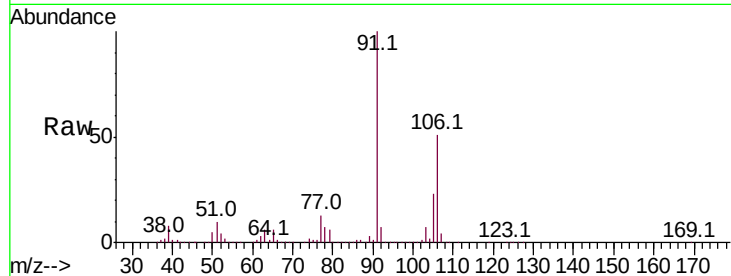
BFC28

Tot Ion:106 Resp: 372308

Ion Ratio Lower Upper

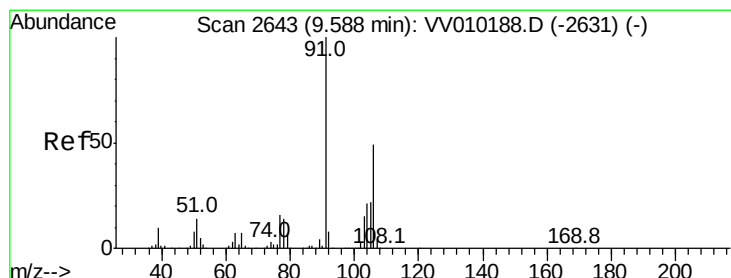
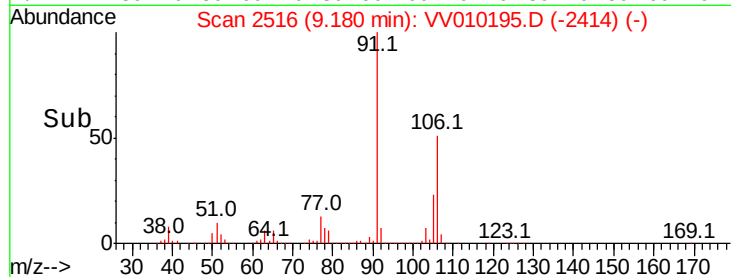
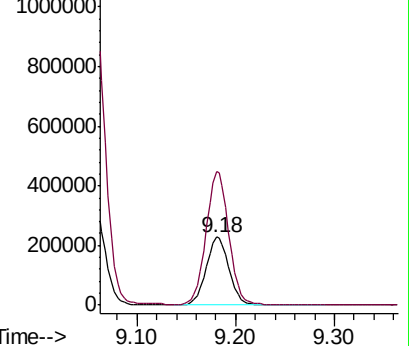
106 100

91 195.8 139.3 258.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

o-xylene

Concen: 53.817 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010195.D

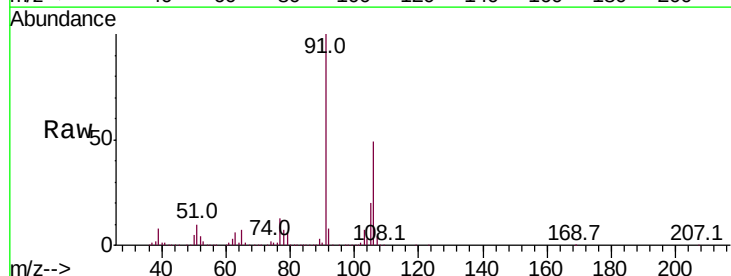
Acq: 09 Apr 2019 01:03

Tgt Ion:106 Resp: 285524

Ion Ratio Lower Upper

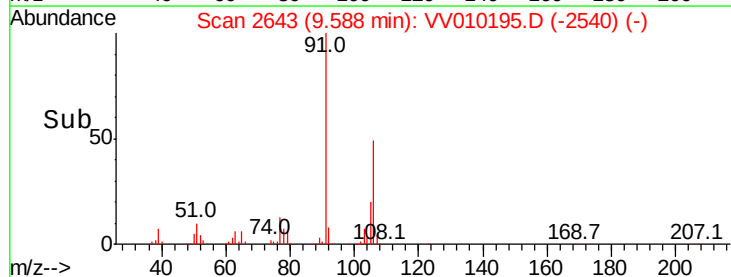
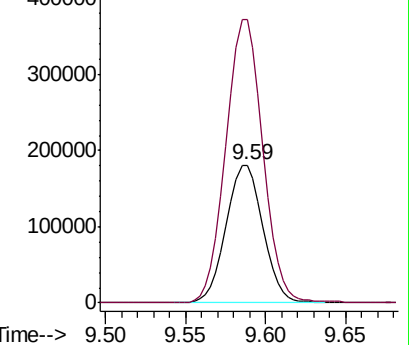
106 100

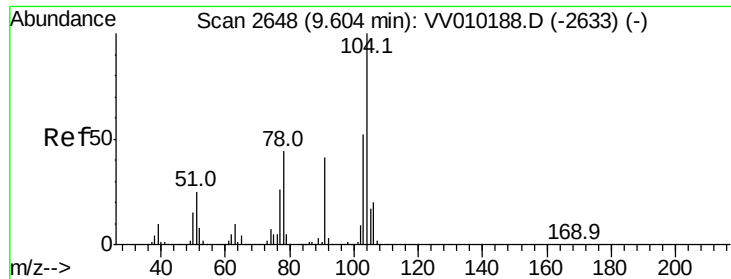
91 205.0 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Stvrene

Concen: 2.556 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.02 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampleId :

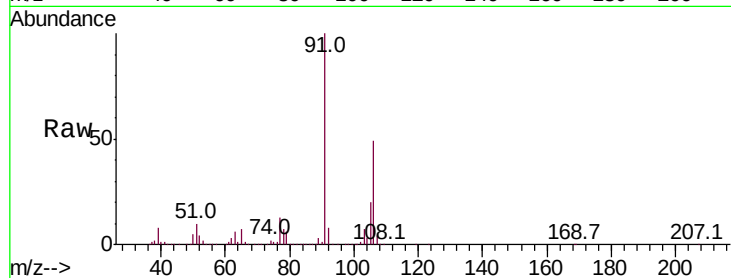
BFC28

Tot Ion:104 Resp: 22434

Ion Ratio Lower Upper

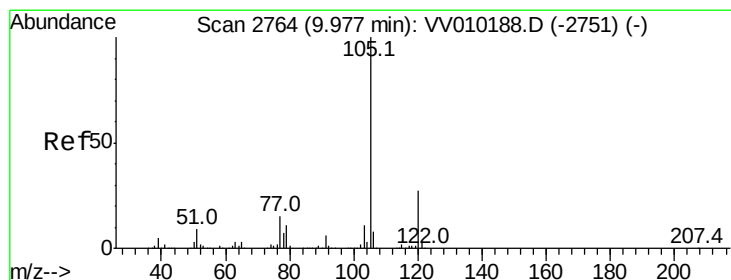
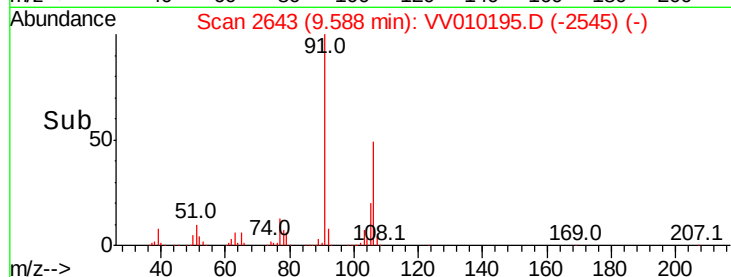
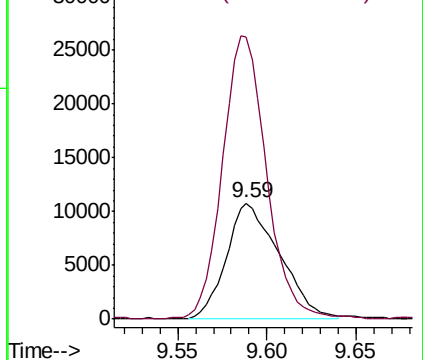
104 100

78 243.3 30.5 56.7#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#57

Isopropylbenzene

Concen: 21.816 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

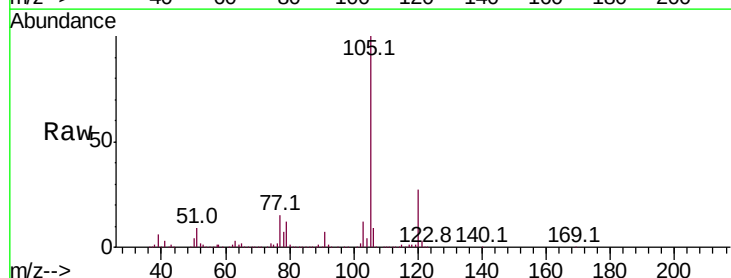
Tgt Ion:105 Resp: 305242

Ion Ratio Lower Upper

105 100

120 27.2 21.5 32.3

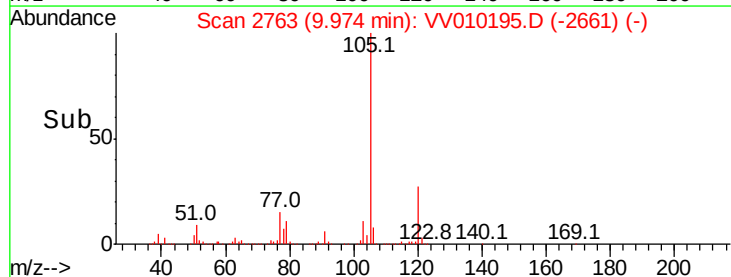
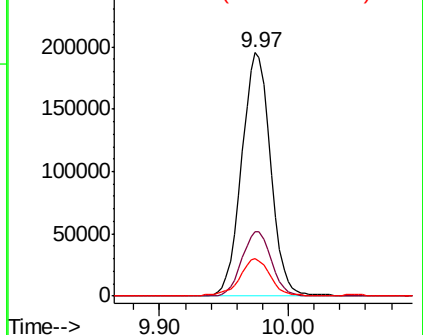
77 16.2 12.4 18.6

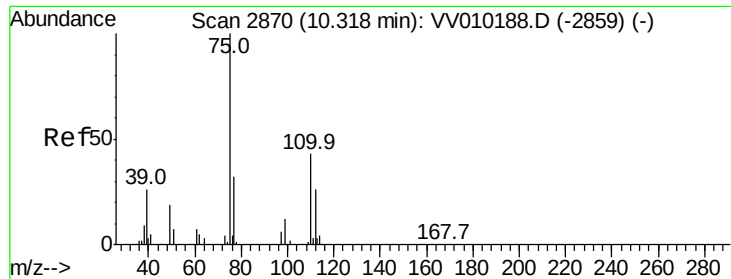


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#59

1,2,3-Trichloropropane

Concen: 2.426 ug/L

RT: 10.40 min Scan# 2894

Delta R.T. 0.08 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampleId :

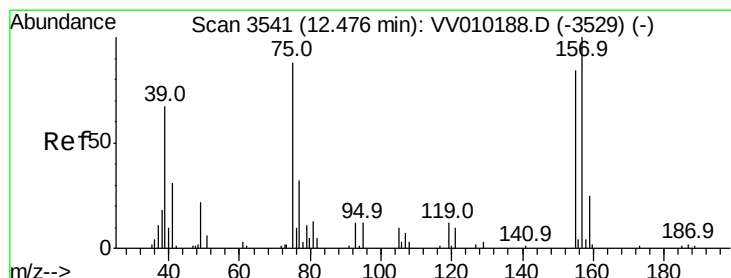
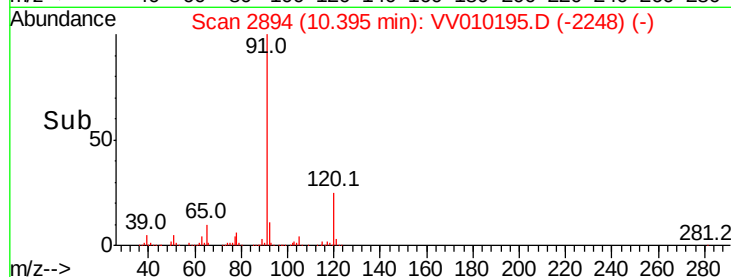
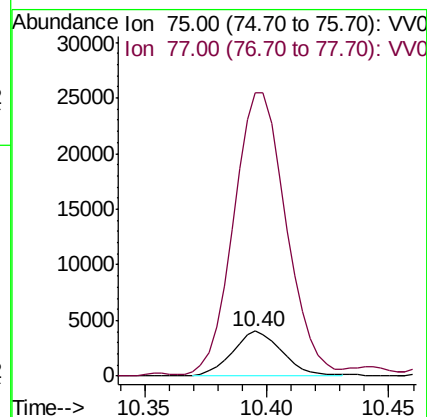
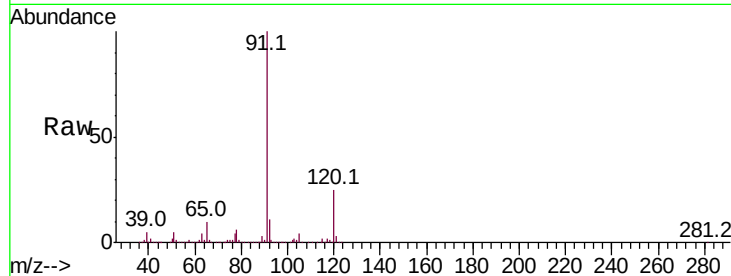
BFC28

Tot Ion: 75 Resp: 5723

Ion Ratio Lower Upper

75 100

77 657.1 25.8 38.8#



#66

1,2-Dibromo-3-chloropropane

Concen: 10.122 ug/L

RT: 12.46 min Scan# 3536

Delta R.T. -0.02 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

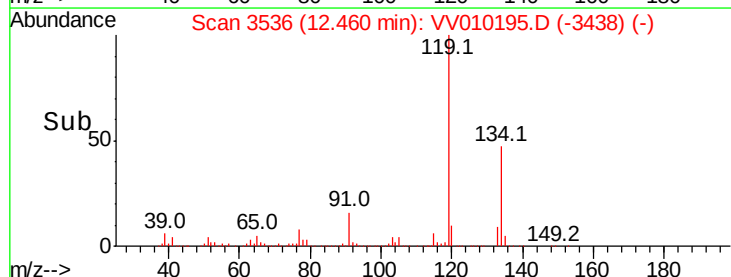
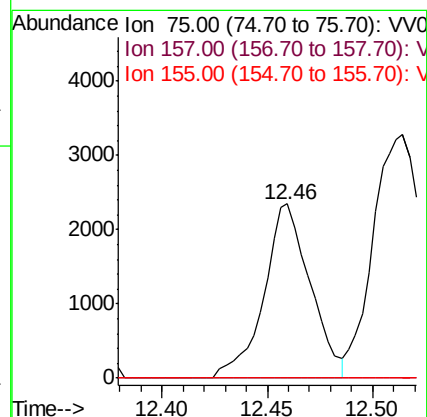
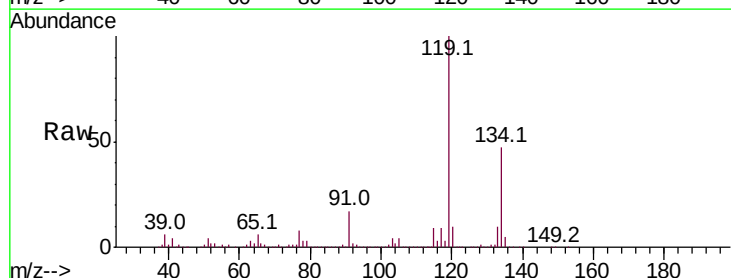
Tgt Ion: 75 Resp: 3586

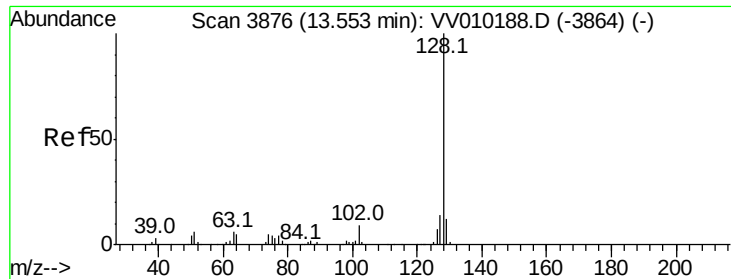
Ion Ratio Lower Upper

75 100

157 0.0 83.0 124.6#

155 0.0 68.1 102.1#





#69

Naphthalene

Concen: 59.423 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010195.D

Acq: 09 Apr 2019 01:03

Instrument :

MSVOA_V

ClientSampleId :

BFC28

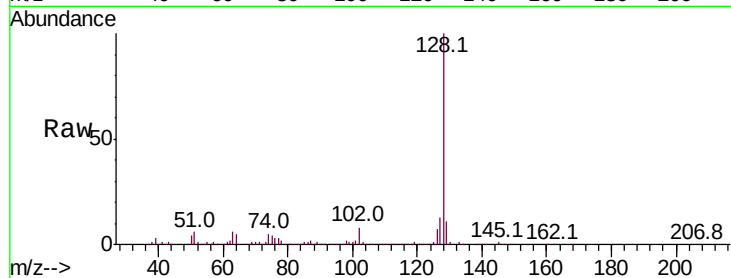
Tot Ion:128 Resp: 299022

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.4

127 12.7 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

