

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092420\
 Data File : VV018428.D
 Acq On : 24 Sep 2020 14:51
 Operator : SY/MD
 Sample : L4109-04ME
 Misc : 5.83g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 25 04:45:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM090920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 25 04:36:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	421340	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	417249	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	225909	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	140902	41.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.06%
7) Chloroethane-d5	1.58	69	119125	42.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.80%
11) 1,1-Dichloroethene-d2	2.10	63	218808	34.74	ug/L	-0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.48%
21) 2-Butanone-d5	3.93	46	226802	107.91	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.91%
24) Chloroform-d	4.37	84	306354	51.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.84%
26) 1,2-Dichloroethane-d4	5.05	65	204545	53.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.12%
32) Benzene-d6	5.07	84	628684	52.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.26%
36) 1,2-Dichloropropane-d6	6.09	67	203035	53.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.00%
41) Toluene-d8	7.34	98	588478	54.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.12%
43) trans-1,3-Dichloropropene-	7.64	79	103971	53.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.82%
47) 2-Hexanone-d5	8.33	63	59	0.04	ug/L	0.22
Spiked Amount	100.000	Range	45 - 130	Recovery	=	0.04%#
57) 1,1,2,2-Tetrachloroethane-	10.25	84	263682	55.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.70%
64) 1,2-Dichlorobenzene-d4	11.65	152	266864	57.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	115.04%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.10	101	2142	0.753	ug/L #	19
15) Methyl Acetate	2.53	43	401262	132.671	ug/L #	53
20) cis-1,2-Dichloroethene	3.93	96	10236	3.359	ug/L	97
29) Cyclohexane	4.69	56	43924	9.116	ug/L	98
30) 1,1,1-Trichloroethane	4.63	97	34252	7.073	ug/L	99
31) Carbon tetrachloride	4.63	117	4251	0.998	ug/L	84
35) Methylcyclohexane	6.09	83	50472	10.315	ug/L #	18
39) cis-1,3-Dichloropropene	7.01	75	5636	1.157	ug/L #	53
42) Toluene	7.41	91	425511	33.704	ug/L	99
48) 2-Hexanone	8.12	43	5730	1.895	ug/L #	38
52) Ethylbenzene	9.04	91	158879	11.527	ug/L	100
53) m,p-Xylene	9.16	106	270630	52.604	ug/L	96
54) o-xylene	9.57	106	104308	21.046	ug/L	99
55) Styrene	9.57	104	5639	0.655	ug/L #	1
56) Isopropylbenzene	9.95	105	116196	8.699	ug/L	99
59) 1,2,3-Trichloropropane	11.27	75	25562	6.875	ug/L	90
65) 1,2-Dichlorobenzene	11.67	146	6773	0.998	ug/L #	84

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ClientSampleId :

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Quant Title : VOC Analysis
QLast Update : Fri Sep 25 04:36:20 2020
Response via : Initial Calibration

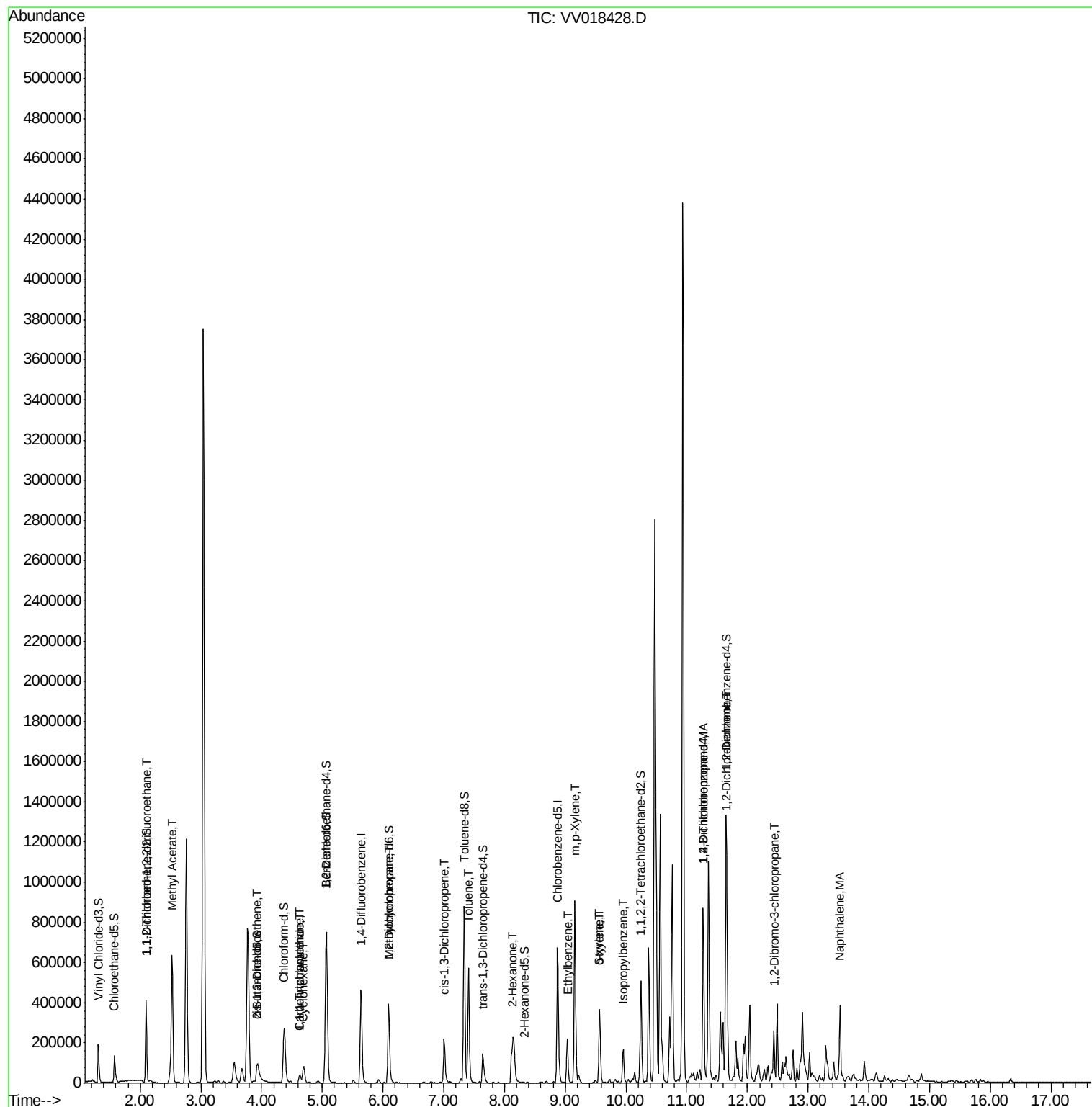
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	12.44	75	1016	1.060	ug/L	# 1
69) Naphthalene	13.53	128	279763	23.445	ug/L	100

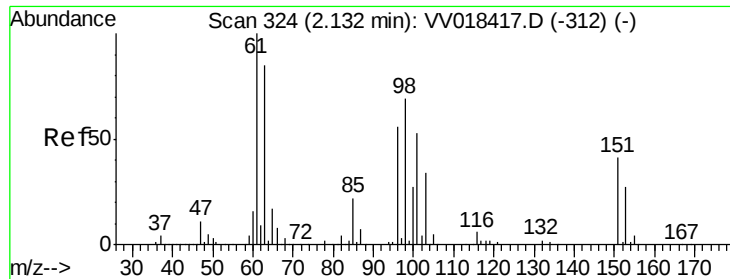
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV092420\
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Quant Time: Sep 25 04:45:53 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM090920WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 25 04:36:20 2020
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.753 ug/L

RT: 2.10 min Scan# 313

Delta R.T. -0.04 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

Instrument :

MSVOA_V

ClientSampleId :

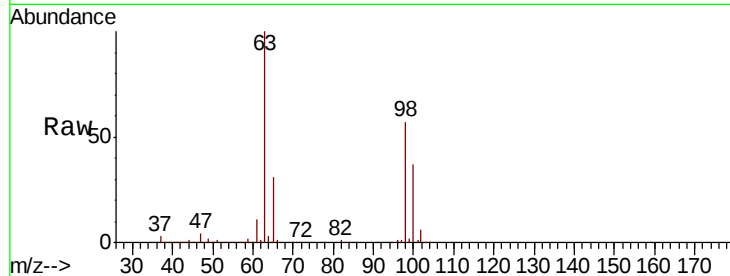
Tot Ion:101 Resp: 2142

Ion Ratio Lower Upper

101 100

85 0.0 33.5 50.3#

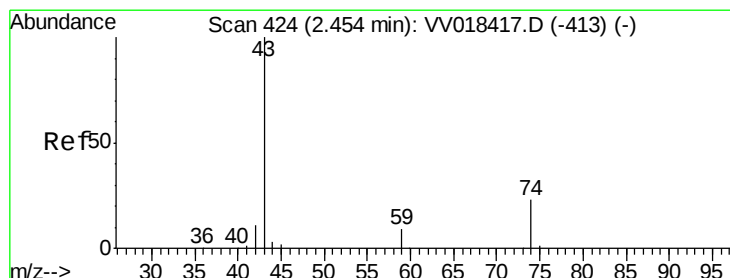
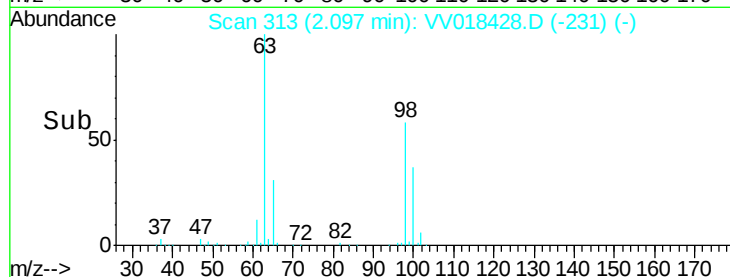
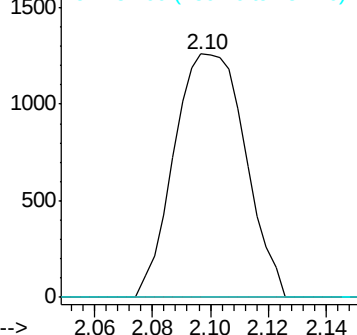
151 0.0 62.2 93.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#15

Methyl Acetate

Concen: 132.671 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.07 min

Lab File: VV018428.D

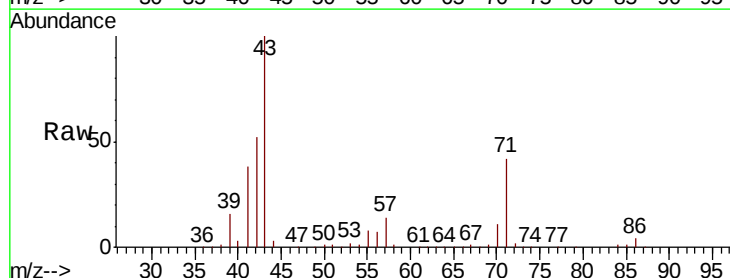
Acq: 24 Sep 2020 14:51

Tgt Ion: 43 Resp: 401262

Ion Ratio Lower Upper

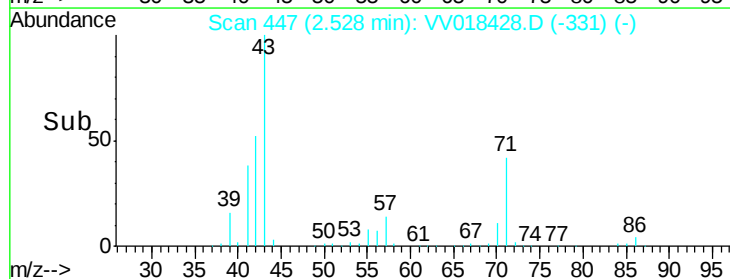
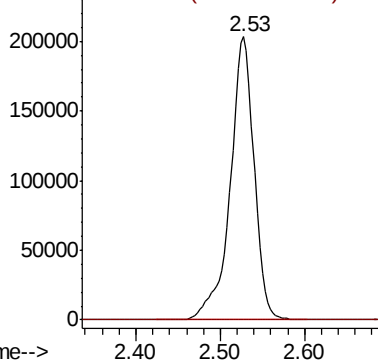
43 100

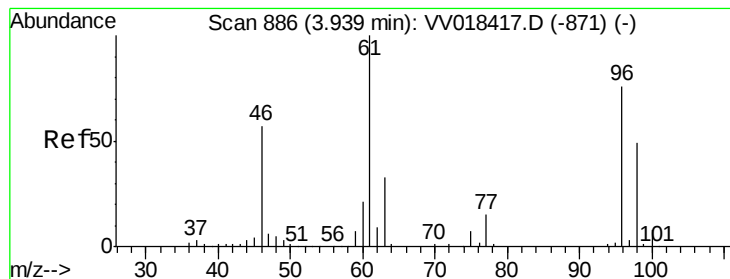
74 0.0 18.4 27.6#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0





#20

cis-1,2-Dichloroethene

Concen: 3.359 ug/L

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

Instrument :
MSVOA_V
ClientSampleId :

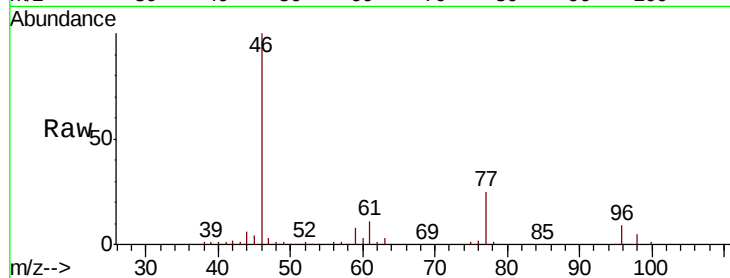
Tot Ion: 96 Resp: 10236

Ion Ratio Lower Upper

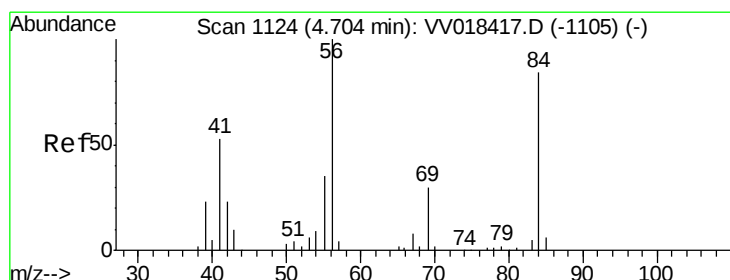
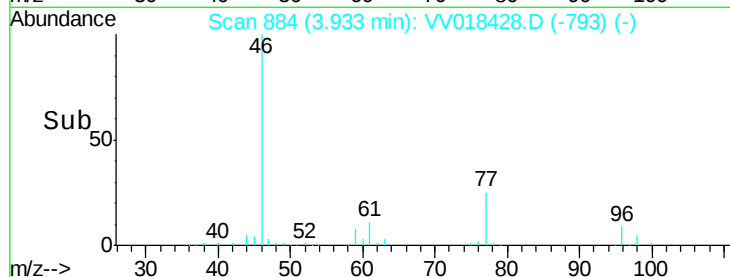
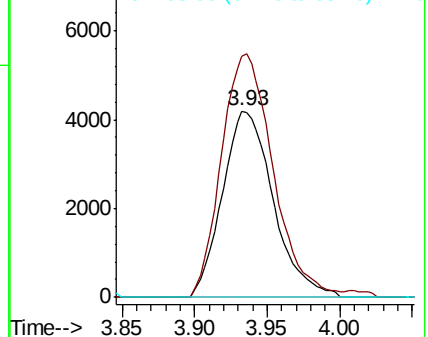
96 100

61 129.6 93.6 173.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0



#29

Cyclohexane

Concen: 9.116 ug/L

RT: 4.69 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

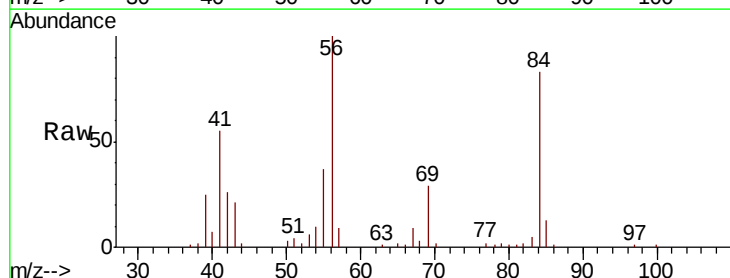
Tgt Ion: 56 Resp: 43924

Ion Ratio Lower Upper

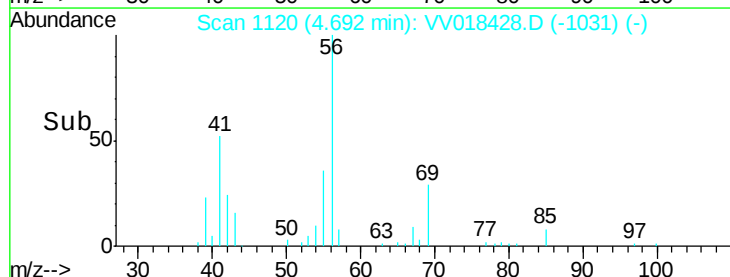
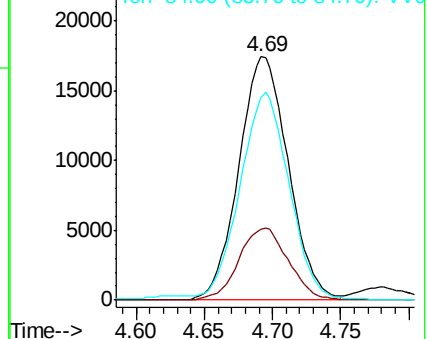
56 100

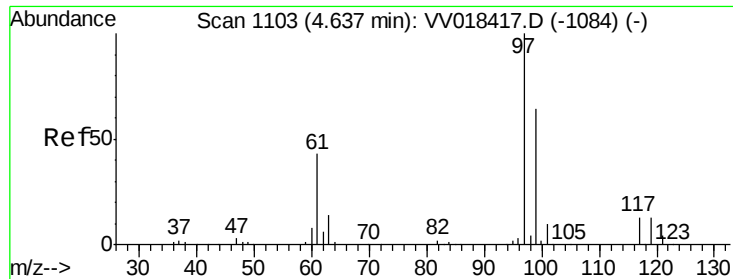
69 29.6 24.2 36.2

84 83.0 68.3 102.5



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

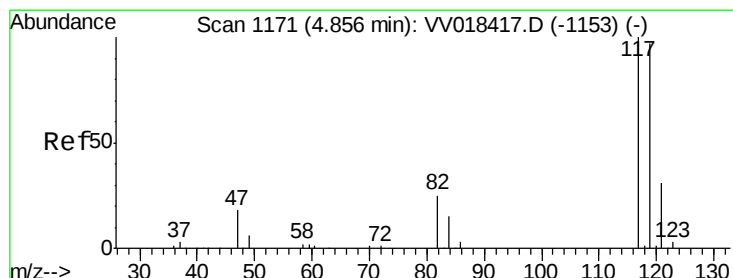
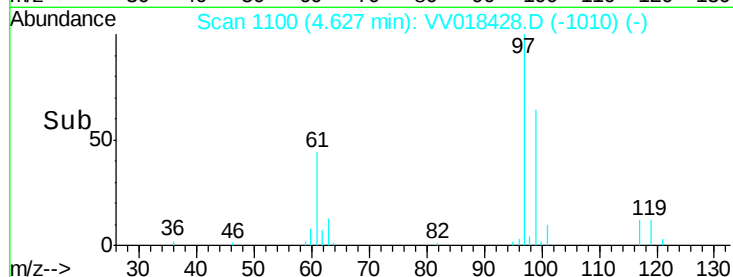
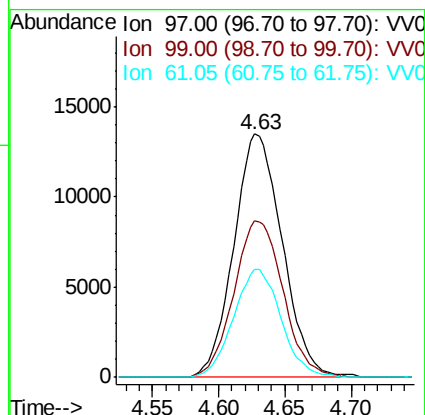
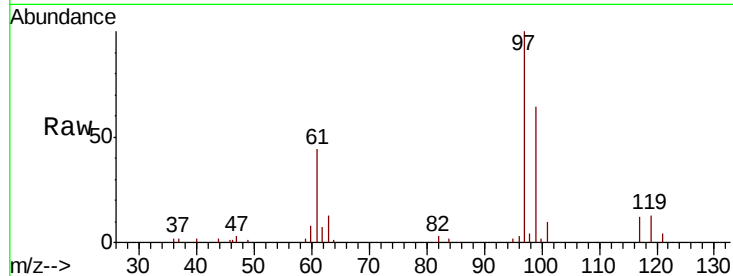




#30
 1,1,1-Trichloroethane
 Concen: 7.073 ug/L
 RT: 4.63 min Scan# 1100
 Delta R.T. -0.01 min
 Lab File: VV018428.D
 Acq: 24 Sep 2020 14:51

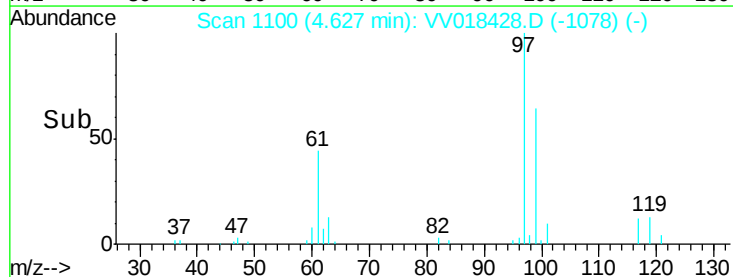
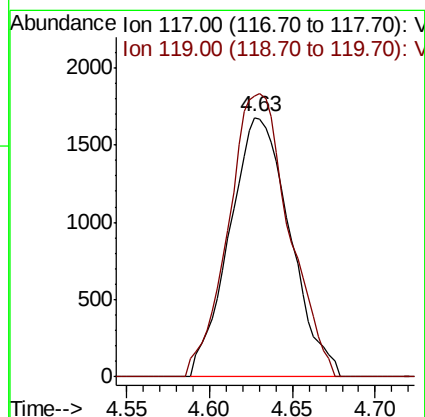
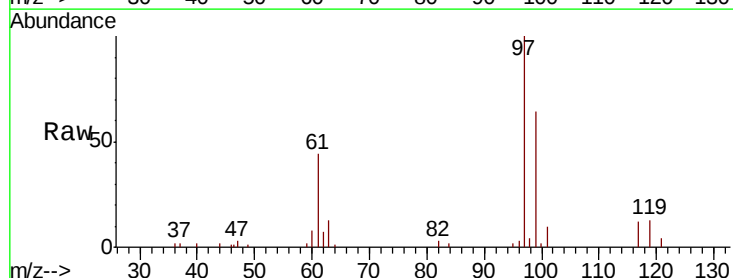
Instrument :
 MSVOA_V
 ClientSampleId :

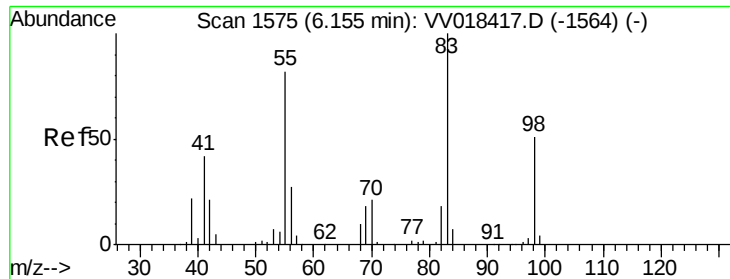
Tot Ion: 97 Resp: 34252
 Ion Ratio Lower Upper
 97 100
 99 65.1 51.6 77.4
 61 43.6 34.9 52.3



#31
 Carbon tetrachloride
 Concen: 0.998 ug/L
 RT: 4.63 min Scan# 1100
 Delta R.T. -0.23 min
 Lab File: VV018428.D
 Acq: 24 Sep 2020 14:51

Tgt Ion: 117 Resp: 4251
 Ion Ratio Lower Upper
 117 100
 119 109.8 75.7 113.5

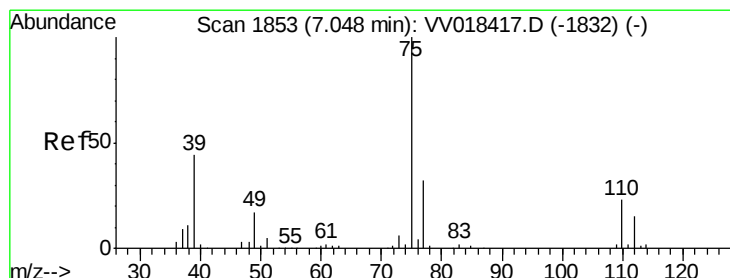
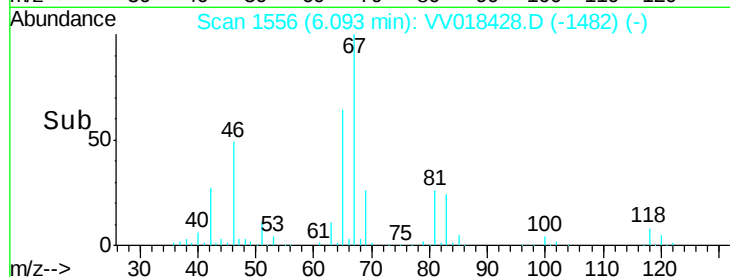
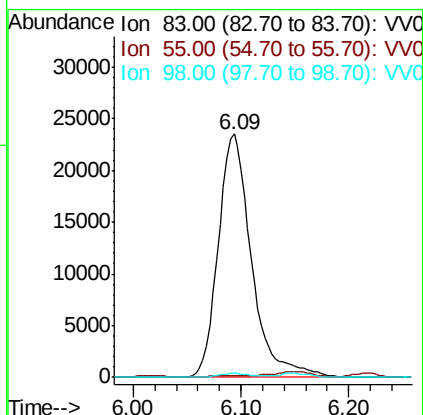
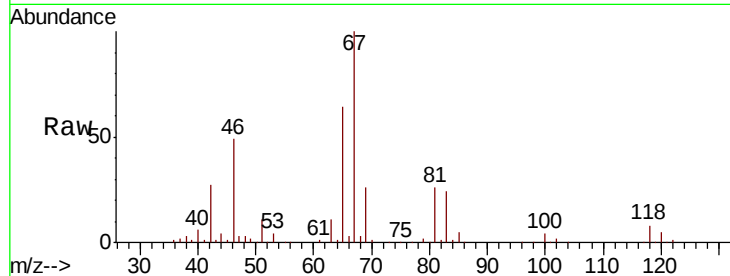




#35
Methylcyclohexane
Concen: 10.315 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.06 min
Lab File: VV018428.D
Acq: 24 Sep 2020 14:51

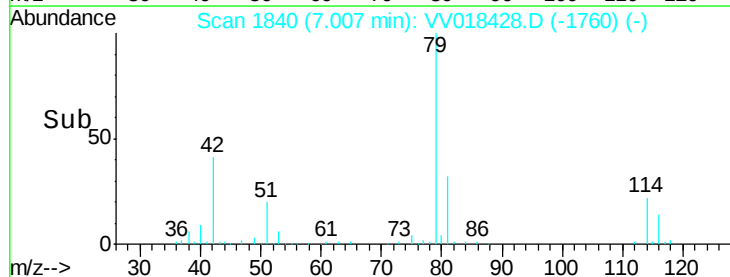
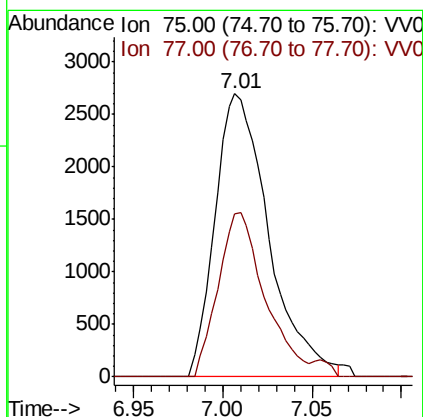
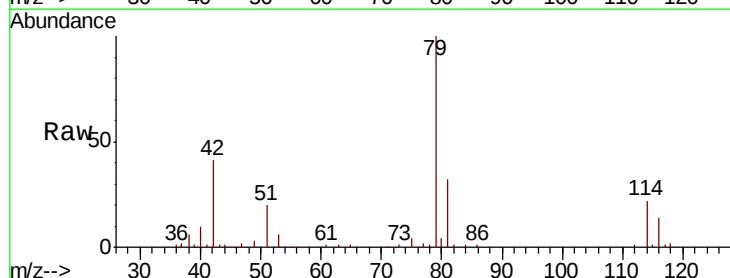
Instrument :
MSVOA_V
ClientSampleId :

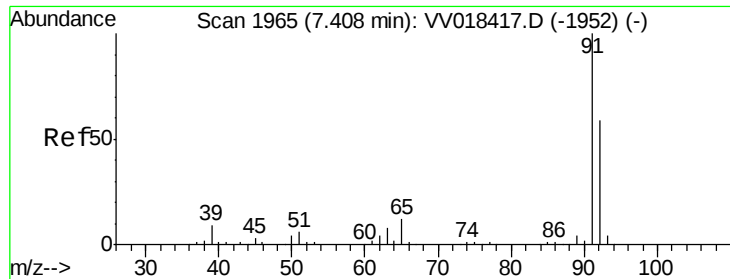
Tot Ion: 83 Resp: 50472
Ion Ratio Lower Upper
83 100
55 0.3 63.4 95.2#
98 1.6 38.8 58.2#



#39
cis-1,3-Dichloropropene
Concen: 1.157 ug/L
RT: 7.01 min Scan# 1840
Delta R.T. -0.04 min
Lab File: VV018428.D
Acq: 24 Sep 2020 14:51

Tgt Ion: 75 Resp: 5636
Ion Ratio Lower Upper
75 100
77 57.7 22.3 41.3#





#42

Toluene

Concen: 33.704 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

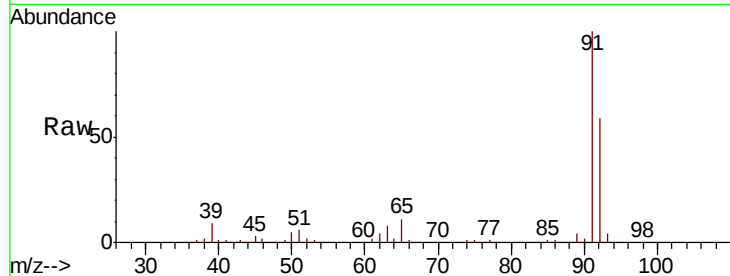
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 425511

Ion Ratio Lower Upper

91 100

92 58.5 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VV018428.D (-1872) (-)

Ion 92.00 (91.70 to 92.70): VV018428.D (-1872) (-)

7.41

250000

200000

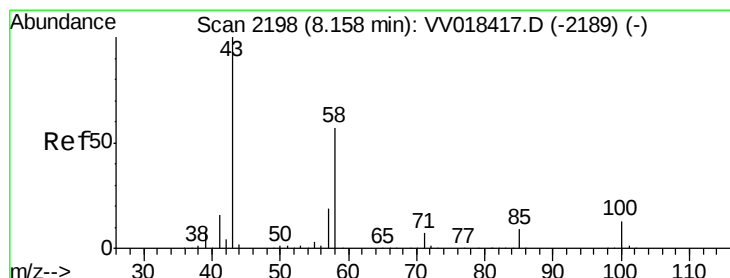
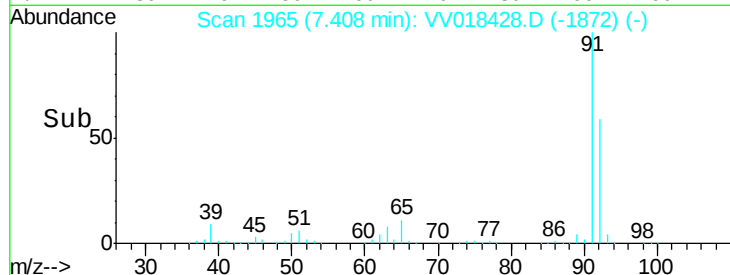
150000

100000

50000

0

Time--> 7.30 7.40 7.50



#48

2-Hexanone

Concen: 1.895 ug/L

RT: 8.12 min Scan# 2185

Delta R.T. -0.04 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

Tgt Ion: 43 Resp: 5730

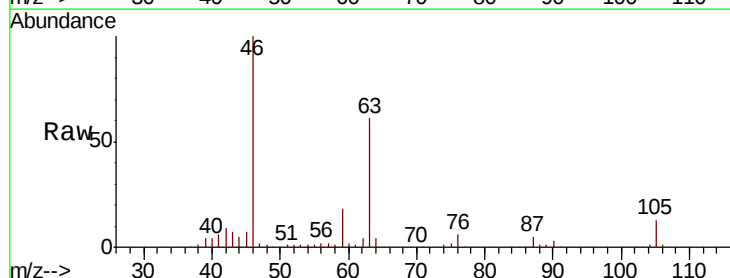
Ion Ratio Lower Upper

43 100

58 0.0 44.8 67.2#

57 38.3 15.8 23.6#

100 0.0 10.2 15.4#



Abundance Ion 43.00 (42.70 to 43.70): VV018428.D (-2105) (-)

Ion 58.00 (57.70 to 58.70): VV018428.D (-2105) (-)

Ion 57.00 (56.70 to 57.70): VV018428.D (-2105) (-)

Ion 100.00 (99.70 to 100.70): VV018428.D (-2105) (-)

8000

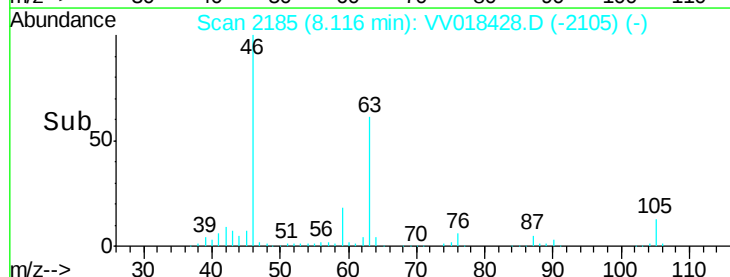
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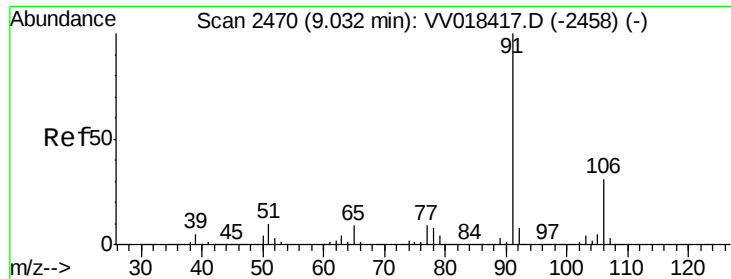
4000

2000

0

Time--> 8.05 8.10 8.15





#52

Ethylbenzene

Concen: 11.527 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

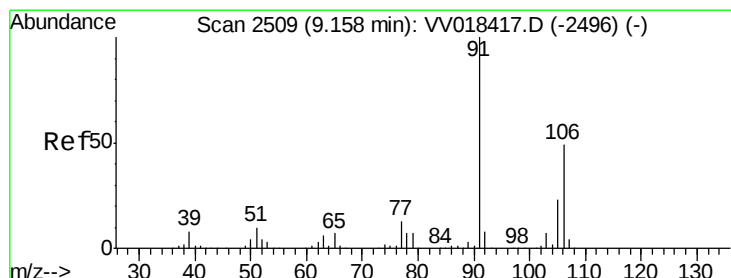
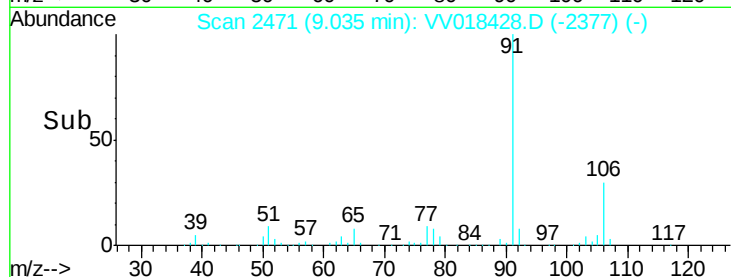
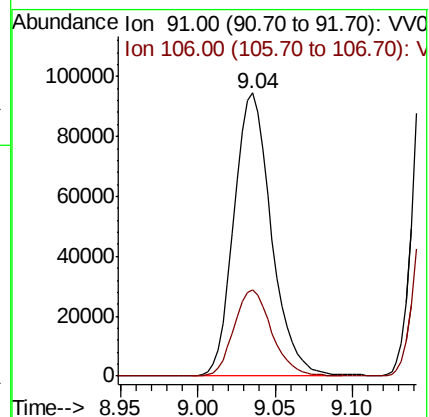
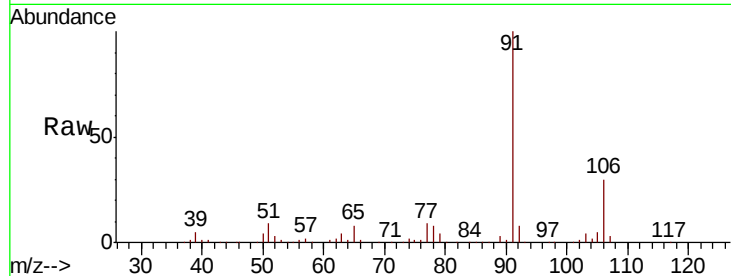
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 158879

Ion Ratio Lower Upper

91 100

106 30.4 21.3 39.5



#53

m,p-Xylene

Concen: 52.604 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV018428.D

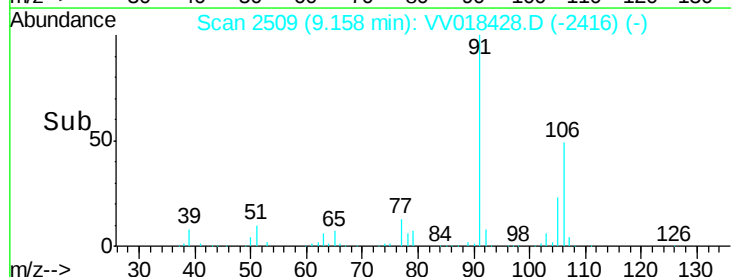
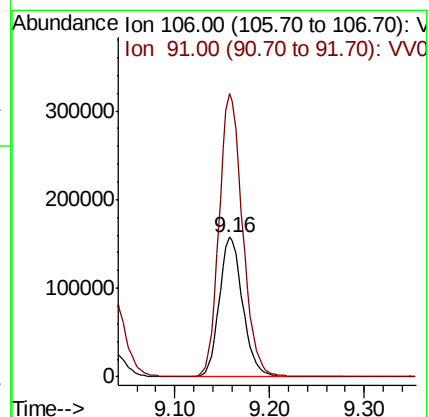
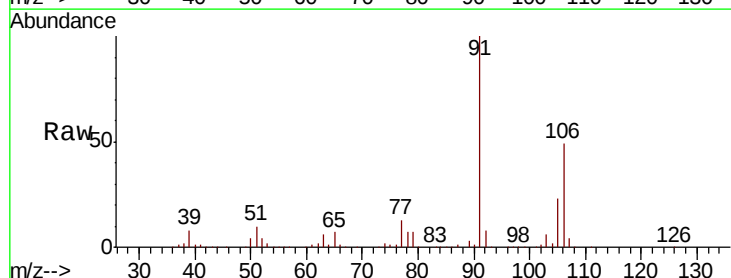
Acq: 24 Sep 2020 14:51

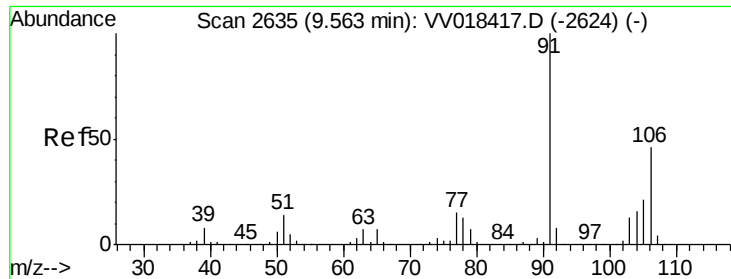
Tgt Ion: 106 Resp: 270630

Ion Ratio Lower Upper

106 100

91 203.0 146.7 272.5





#54

o-xylene

Concen: 21.046 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

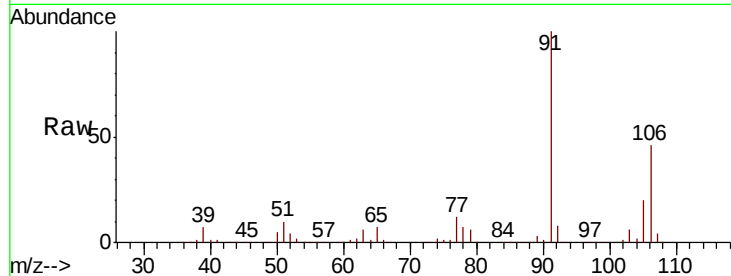
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 104308

Ion Ratio Lower Upper

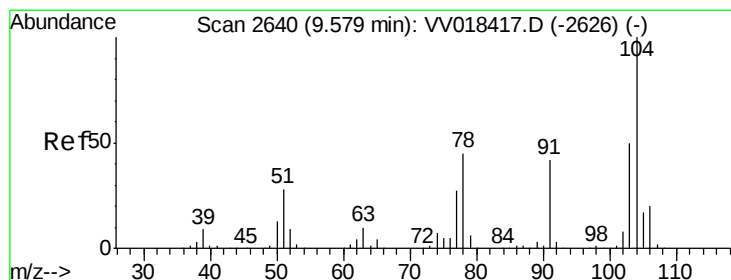
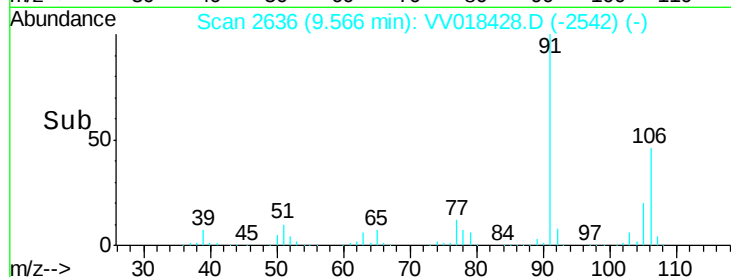
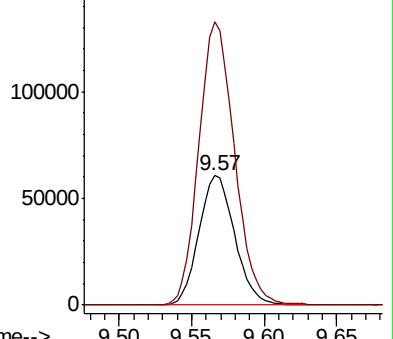
106 100

91 218.9 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 0.655 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.01 min

Lab File: VV018428.D

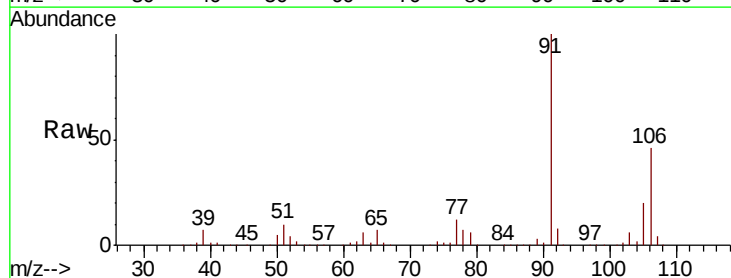
Acq: 24 Sep 2020 14:51

Tgt Ion:104 Resp: 5639

Ion Ratio Lower Upper

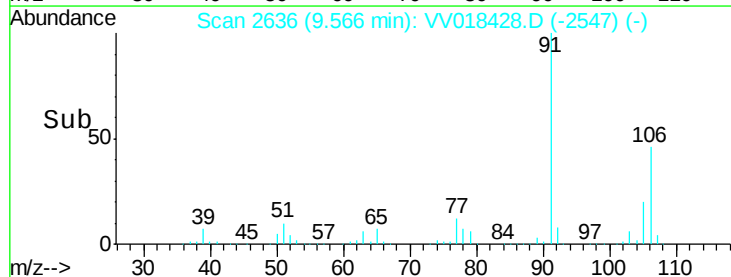
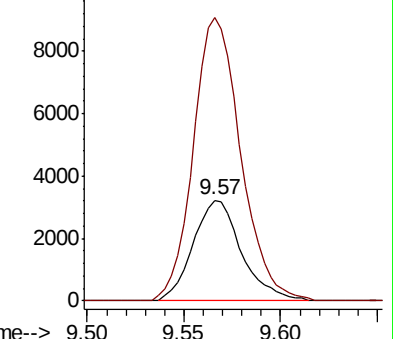
104 100

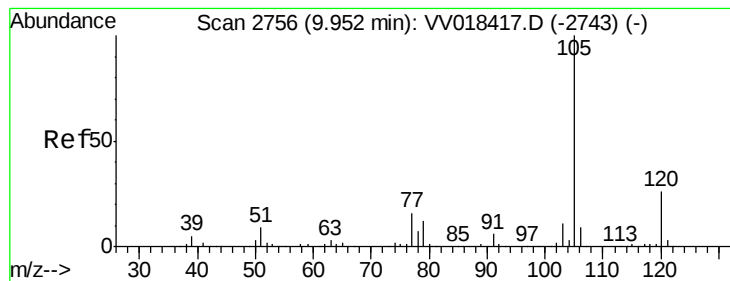
78 281.0 31.4 58.2#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 8.699 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

Instrument :

MSVOA_V

ClientSampleId :

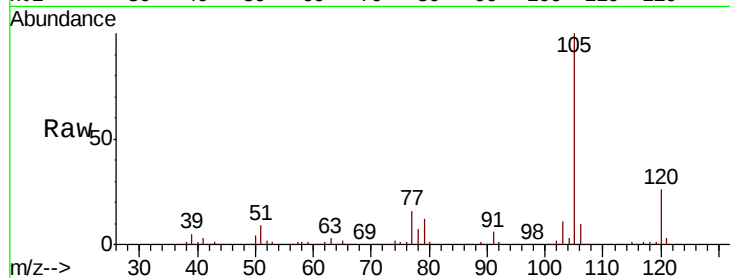
Tot Ion:105 Resp: 116196

Ion Ratio Lower Upper

105 100

120 25.9 20.9 31.3

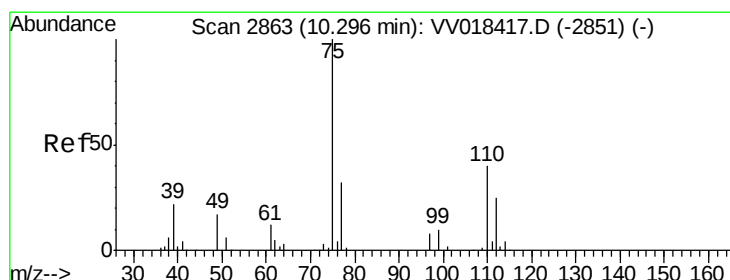
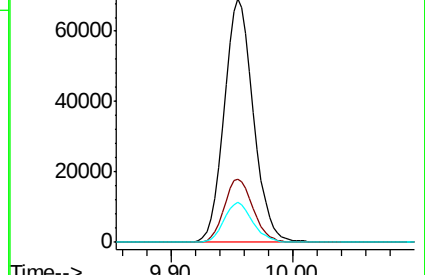
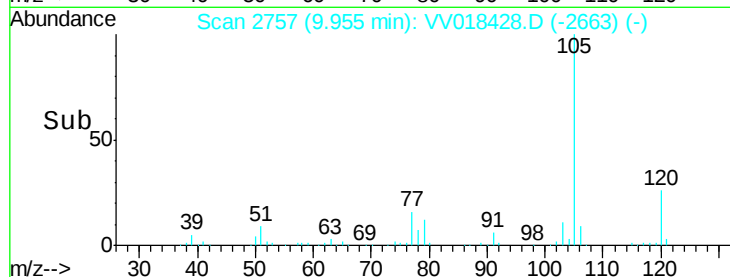
77 16.1 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): VV018417.D (-2743) (-)

Ion 120.00 (119.70 to 120.70): VV018417.D (-2743) (-)

Ion 77.00 (76.70 to 77.70): VV018417.D (-2743) (-)



#59

1,2,3-Trichloropropane

Concen: 6.875 ug/L

RT: 11.27 min Scan# 3167

Delta R.T. 0.98 min

Lab File: VV018428.D

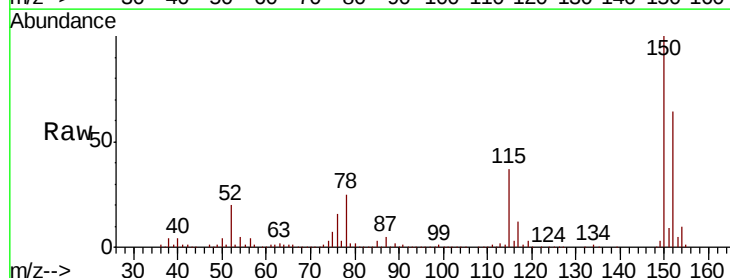
Acq: 24 Sep 2020 14:51

Tgt Ion: 75 Resp: 25562

Ion Ratio Lower Upper

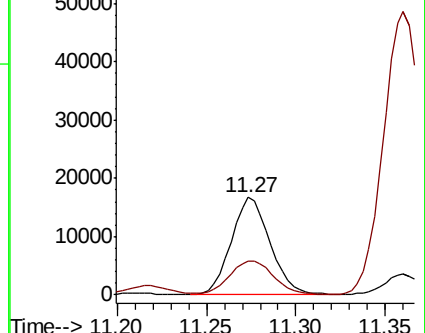
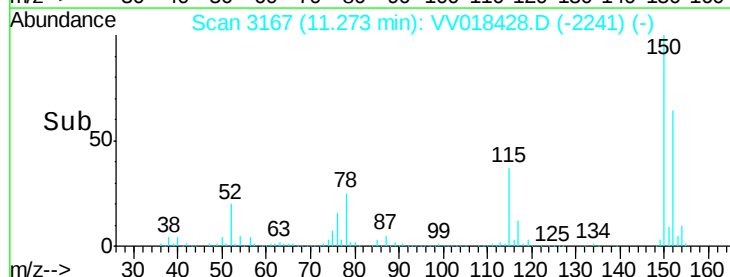
75 100

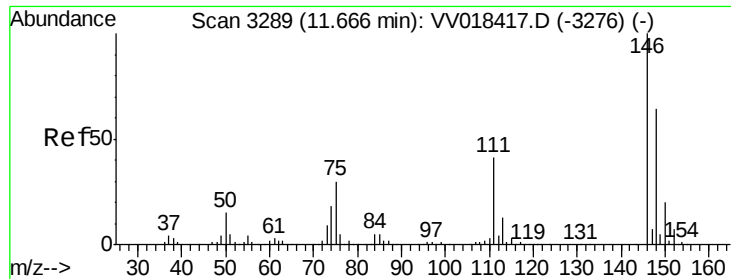
77 37.6 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VV018417.D (-2851) (-)

Ion 77.00 (76.70 to 77.70): VV018417.D (-2851) (-)





#65

1,2-Dichlorobenzene

Concen: 0.998 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

Instrument :

MSVOA_V

ClientSampled :

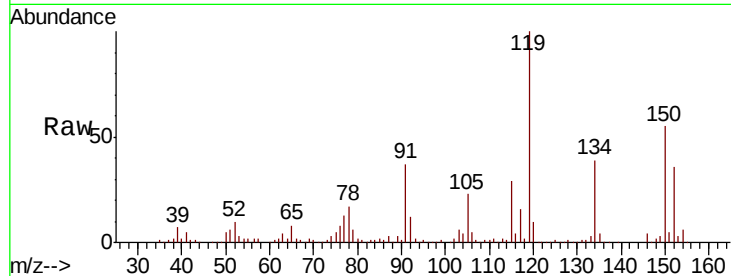
Tot Ion:146 Resp: 6773

Ion Ratio Lower Upper

146 100

111 61.5 32.8 49.2#

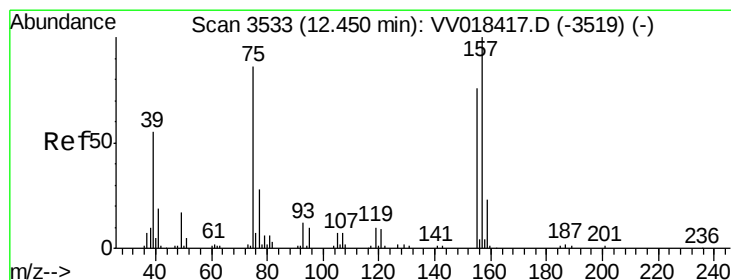
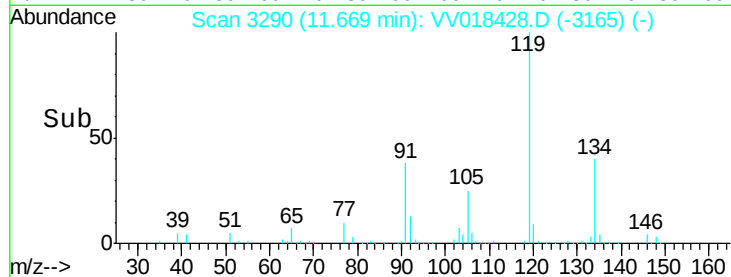
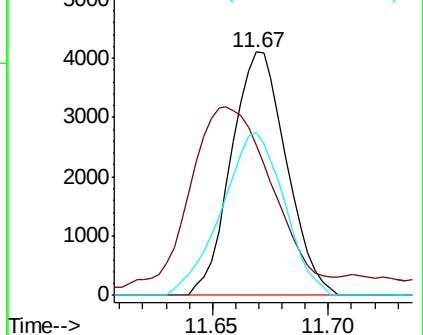
148 67.0 50.7 76.1



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



#66

1,2-Dibromo-3-chloropropane

Concen: 1.060 ug/L

RT: 12.44 min Scan# 3529

Delta R.T. -0.01 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

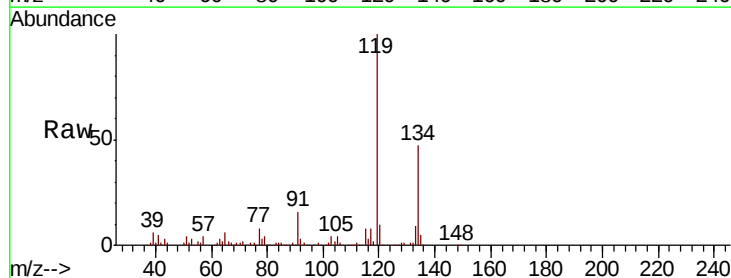
Tgt Ion: 75 Resp: 1016

Ion Ratio Lower Upper

75 100

155 0.0 69.7 104.5#

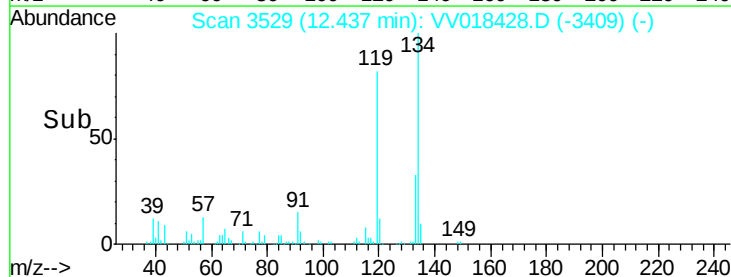
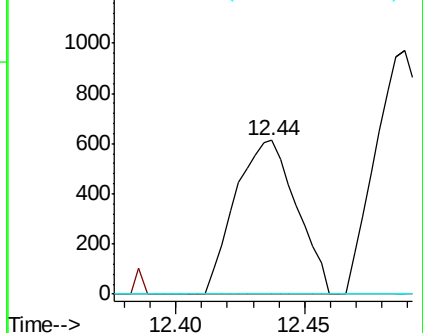
157 0.0 88.2 132.4#

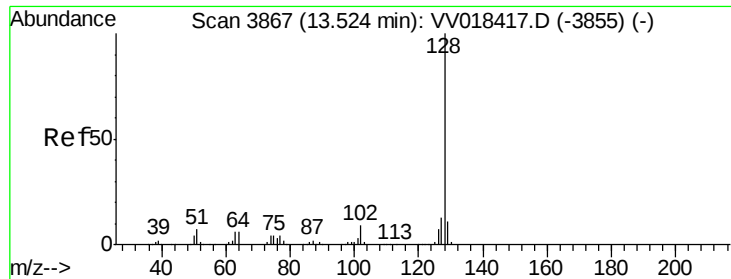


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#69

Naphthalene

Concen: 23.445 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

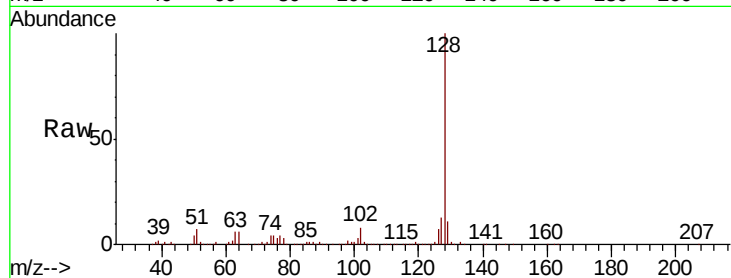
Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

Instrument :

MSVOA_V

ClientSampleId :



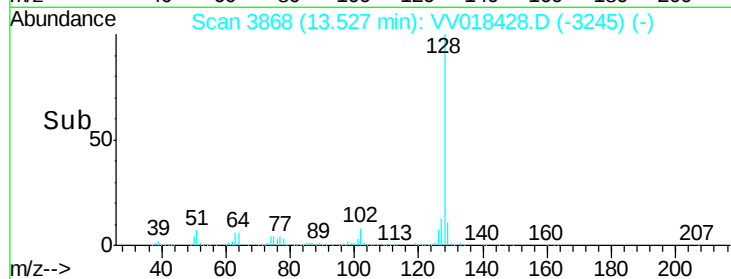
Tot Ion:128 Resp: 279763

Ion Ratio Lower Upper

128 100

127 13.3 10.6 15.8

129 11.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

250000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

200000

150000

100000

50000

0

13.40 13.50 13.60

Time-->