

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV101519\
 Data File : VV013159.D
 Acq On : 15 Oct 2019 11:37
 Operator : SY/MD
 Sample : K5308-01
 Misc : 5.00ML/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 X2J19

Quant Time: Oct 24 07:28:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM101119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 17 14:55:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	701213	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	687781	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	308620	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	245872	55.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	110.94%
7) Chloroethane-d5	1.58	69	194327	53.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.98%
11) 1,1-Dichloroethene-d2	2.13	63	302761	36.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.42%
21) 2-Butanone-d5	3.97	46	295418	88.64	ug/L	0.06
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.64%
24) Chloroform-d	4.40	84	441305	51.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.44%
26) 1,2-Dichloroethane-d4	5.08	65	280196	53.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.54%
32) Benzene-d6	5.09	84	963266	52.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.98%
36) 1,2-Dichloropropane-d6	6.11	67	295124	51.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.66%
41) Toluene-d8	7.35	98	903061	54.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.98%
43) trans-1,3-Dichloropropene-	7.66	79	122529	47.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.10%
47) 2-Hexanone-d5	8.14	63	202972	88.73	ug/L	0.01
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.73%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	357243	48.15	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.30%
64) 1,2-Dichlorobenzene-d4	11.67	152	336580	55.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	111.32%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	101567	18.673 ug/L	99
3) Chloromethane	1.25	50	263787	42.619 ug/L	100
6) Bromomethane	1.53	94	120793	39.703 ug/L	99
9) Trichlorofluoromethane	1.77	101	195827	25.667 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	169839	37.791 ug/L	96
13) Acetone	2.23	43	1348191	440.571 ug/L	100
15) Methyl Acetate	2.47	43	469943	86.660 ug/L	95
16) Methylene chloride	2.53	84	110909	21.436 ug/L	95
18) Methyl tert-butyl Ether	2.81	73	1540064	108.153 ug/L	98
22) 2-Butanone	4.06	43	275071	70.622 ug/L	100
27) 1,2-Dichloroethane	5.18	62	557994	81.184 ug/L	99
29) Cyclohexane	4.71	56	161734	19.635 ug/L	99
34) Trichloroethene	5.96	95	216658	38.844 ug/L	99
35) Methylcyclohexane	6.17	83	543255	64.388 ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	1103049	155.339 ug/L	99
42) Toluene	7.43	91	1453648	67.405 ug/L	99
46) Tetrachloroethene	8.01	164	95408	21.606 ug/L	95

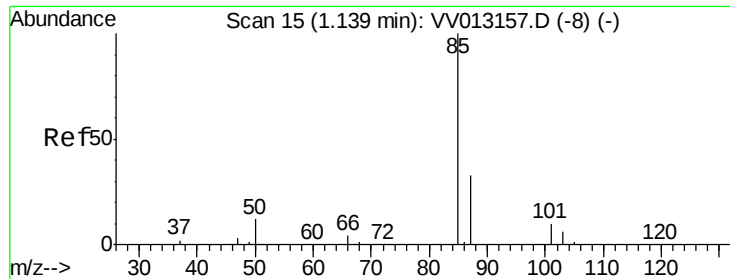
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV101519\
Data File : VV013159.D
Acq On : 15 Oct 2019 11:37
Operator : SY/MD
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM101119WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 17 14:55:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.19	43	803901	146.402	ug/L	99
51) Chlorobenzene	8.92	112	376505	26.622	ug/L	100
52) Ethylbenzene	9.05	91	720596	31.282	ug/L	100
53) m,p-Xylene	9.17	106	835940	96.457	ug/L	99
54) o-xylene	9.59	106	378360	43.576	ug/L	99
55) Styrene	9.60	104	1003545	70.378	ug/L	100
56) Isopropylbenzene	9.97	105	1245128	55.847	ug/L	100
63) 1,4-Dichlorobenzene	11.31	146	220344	21.986	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	237719	23.398	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	122290	20.032	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	413995	63.396	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 18.673 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

Instrument :

MSVOA_V

ClientSampleId :

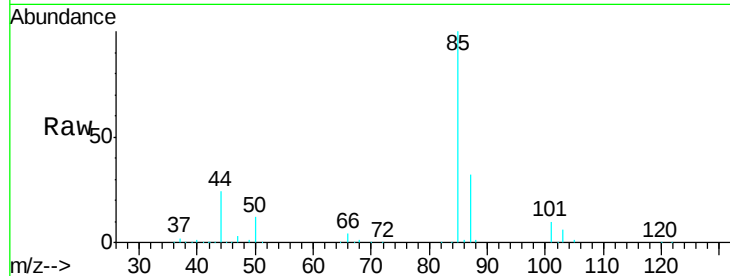
X2J19

Tgt Ion: 85 Resp: 101567

Ion Ratio Lower Upper

85 100

87 32.6 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

100000

80000

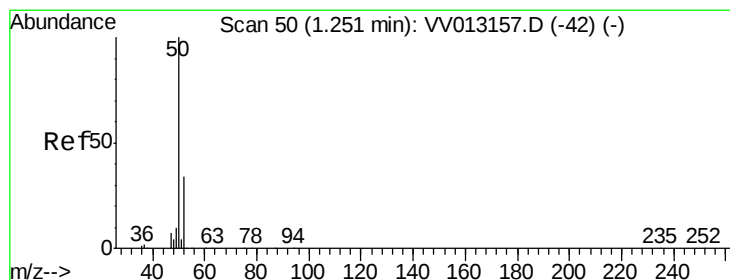
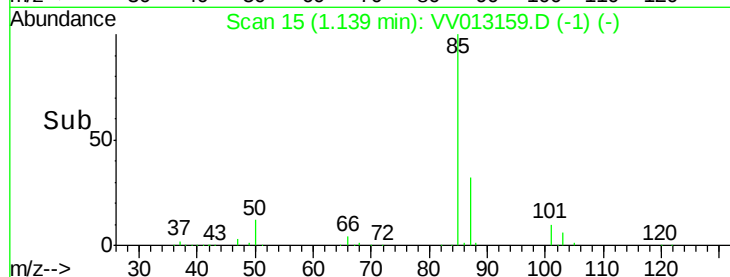
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 42.619 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.01 min

Lab File: VV013159.D

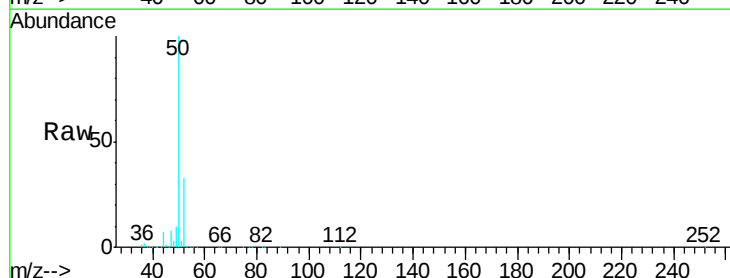
Acq: 15 Oct 2019 11:37

Tgt Ion: 50 Resp: 263787

Ion Ratio Lower Upper

50 100

52 32.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

250000

200000

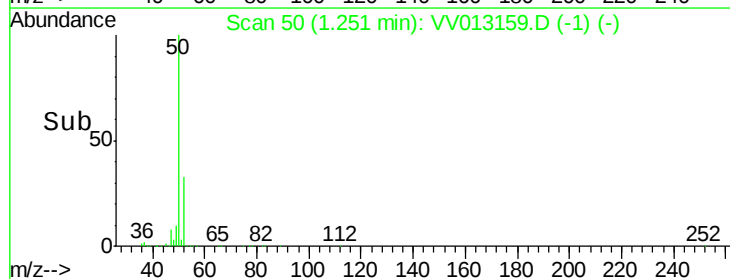
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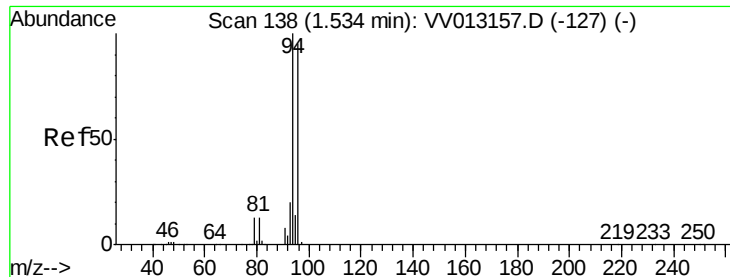
100000

50000

0

Time-->





#6

Bromomethane

Concen: 39.703 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

Instrument :

MSVOA_V

ClientSampleId :

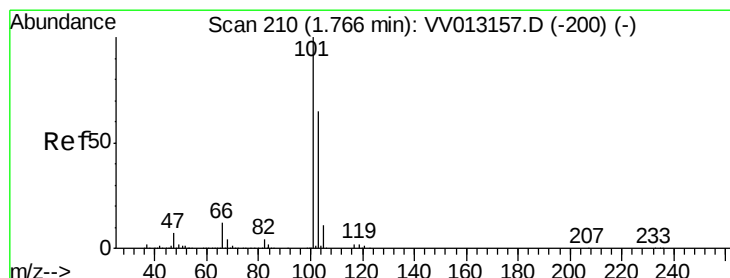
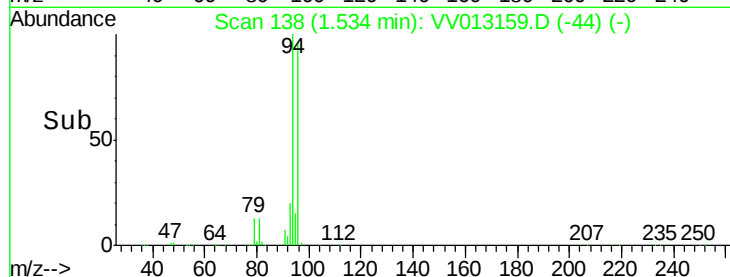
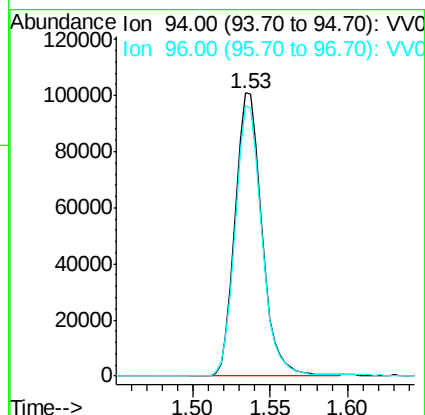
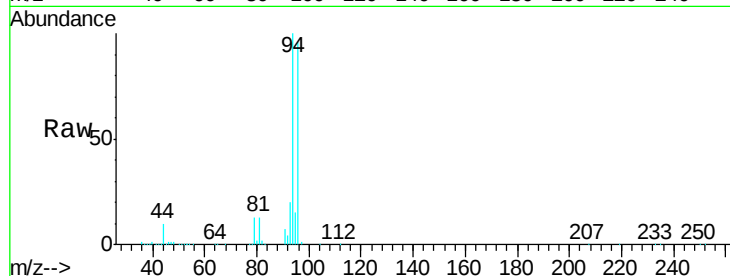
X2J19

Tgt Ion: 94 Resp: 120793

Ion Ratio Lower Upper

94 100

96 95.7 68.0 126.2



#9

Trichlorofluoromethane

Concen: 25.667 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.01 min

Lab File: VV013159.D

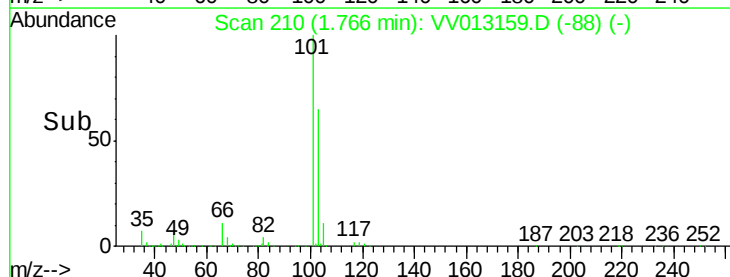
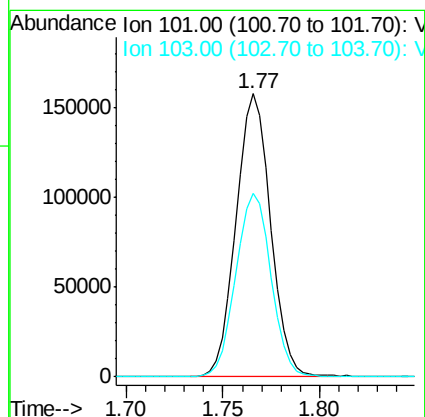
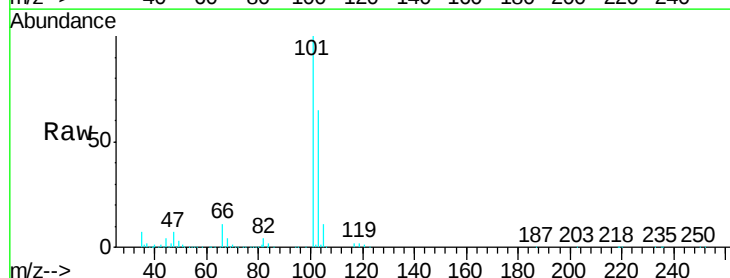
Acq: 15 Oct 2019 11:37

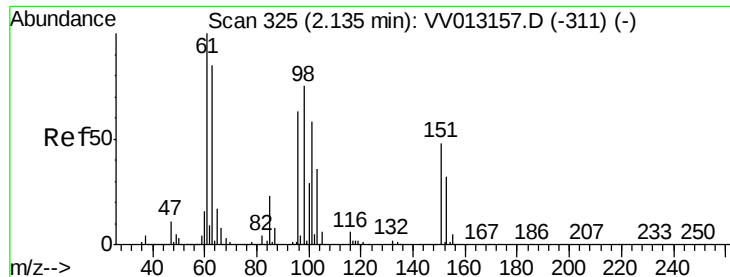
Tgt Ion: 101 Resp: 195827

Ion Ratio Lower Upper

101 100

103 66.4 51.3 76.9





#10

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

Concen: 37.791 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

Instrument :

MSVOA_V

ClientSampleId :

X2J19

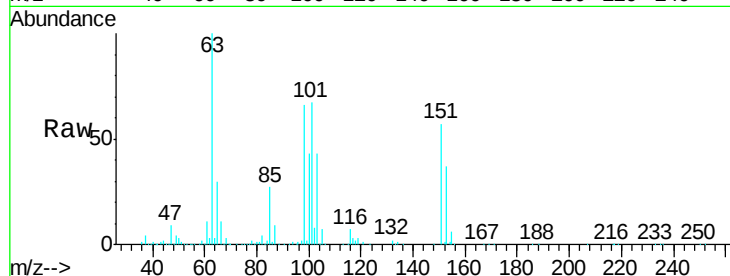
Tgt Ion:101 Resp: 169839

Ion Ratio Lower Upper

101 100

85 40.3 32.9 49.3

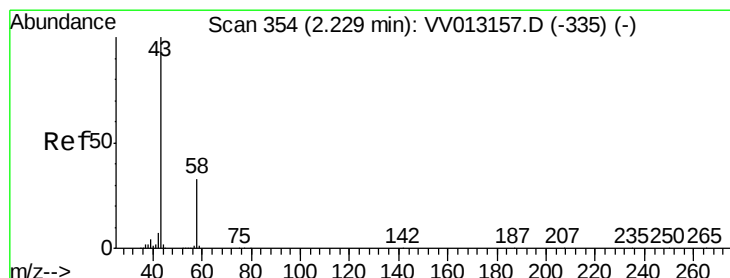
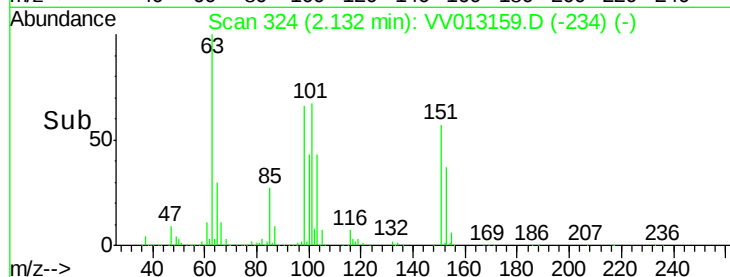
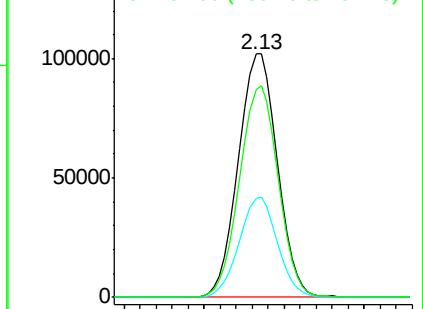
151 86.4 64.9 97.3



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



#13

Acetone

Concen: 440.571 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.04 min

Lab File: VV013159.D

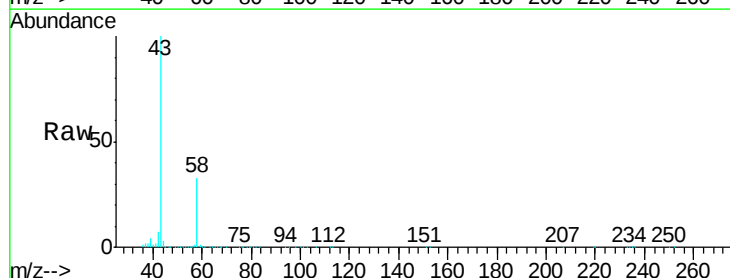
Acq: 15 Oct 2019 11:37

Tgt Ion: 43 Resp: 1348191

Ion Ratio Lower Upper

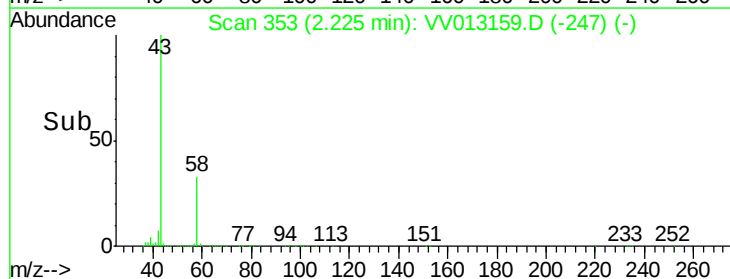
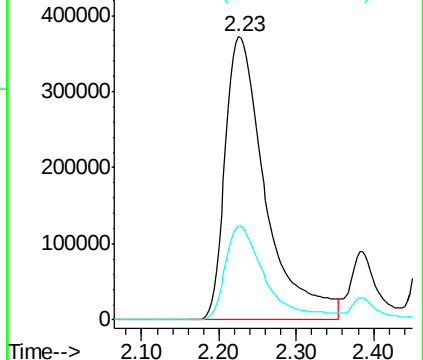
43 100

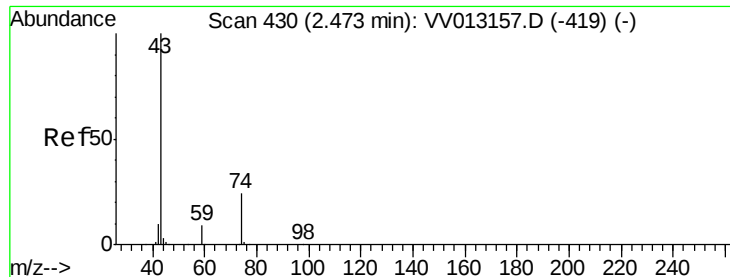
58 32.9 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0





#15

Methyl Acetate

Concen: 86.660 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.02 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

Instrument :

MSVOA_V

ClientSampled :

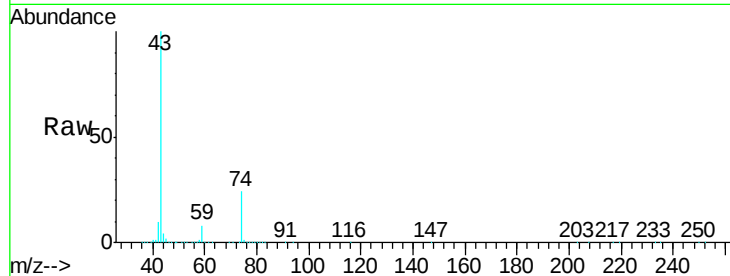
X2J19

Tgt Ion: 43 Resp: 469943

Ion Ratio Lower Upper

43 100

74 25.6 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VV013157.D (-419) (-)

Ion 74.00 (73.70 to 74.70): VV013157.D (-419) (-)

2.47

250000

200000

150000

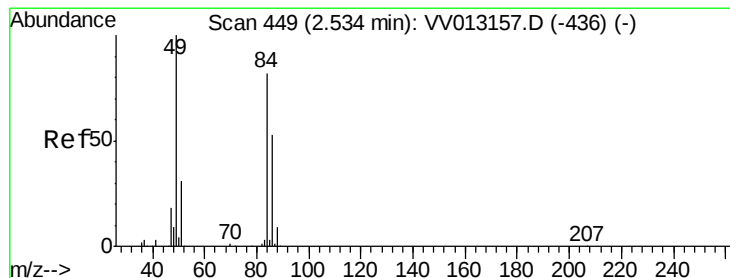
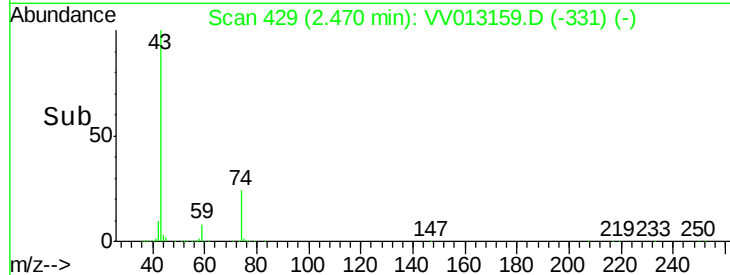
100000

50000

0

2.40 2.45 2.50 2.55 2.60

Time-->



#16

Methylene chloride

Concen: 21.436 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

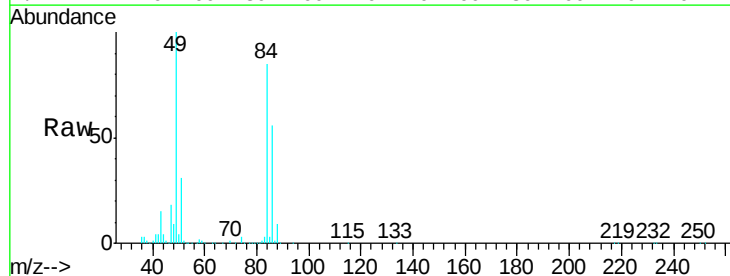
Tgt Ion: 84 Resp: 110909

Ion Ratio Lower Upper

84 100

86 65.6 45.1 83.9

49 117.7 87.8 163.0



Abundance Ion 84.00 (83.70 to 84.70): VV013157.D (-436) (-)

Ion 86.00 (85.70 to 86.70): VV013157.D (-436) (-)

Ion 49.00 (48.70 to 49.70): VV013157.D (-436) (-)

2.53

100000

80000

60000

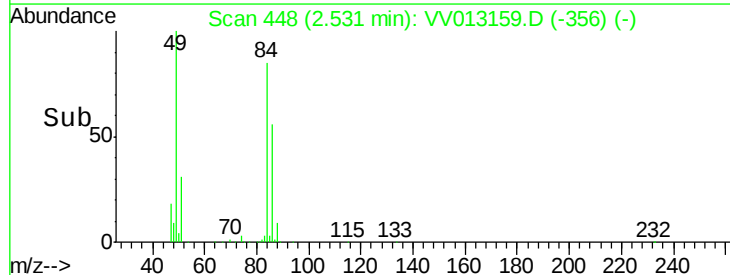
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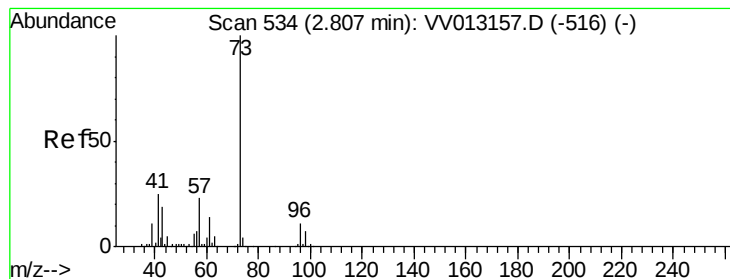
20000

0

2.45 2.50 2.55 2.60

Time-->



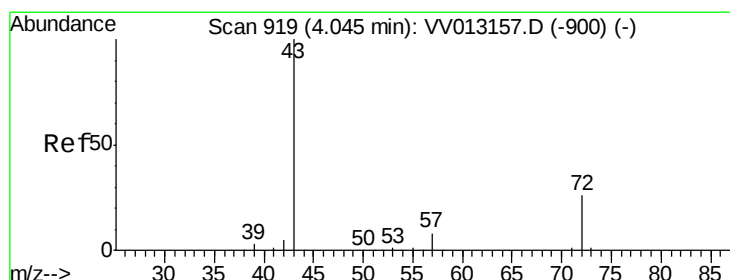
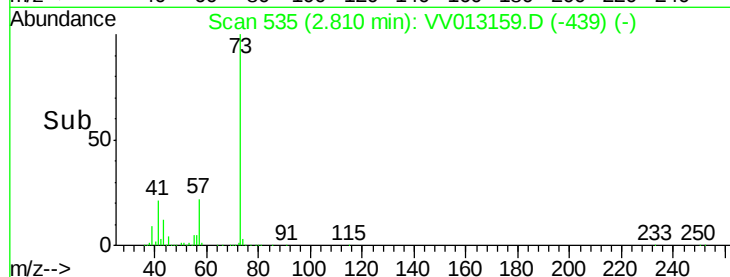
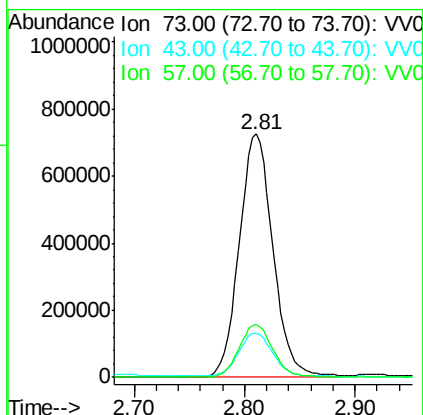
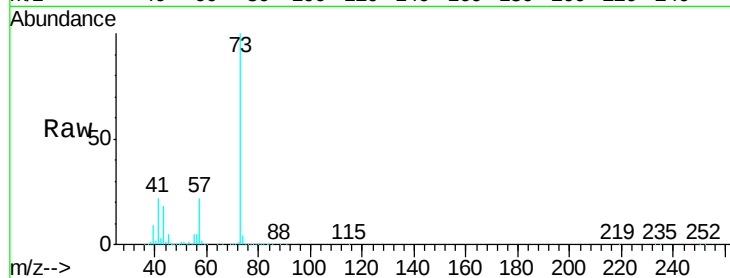


#18

Methyl tert-butyl Ether
 Concen: 108.153 ug/L
 RT: 2.81 min Scan# 535
 Delta R.T. 0.01 min
 Lab File: VV013159.D
 Acq: 15 Oct 2019 11:37

Instrument :
 MSVOA_V
 ClientSampleId :
 X2J19

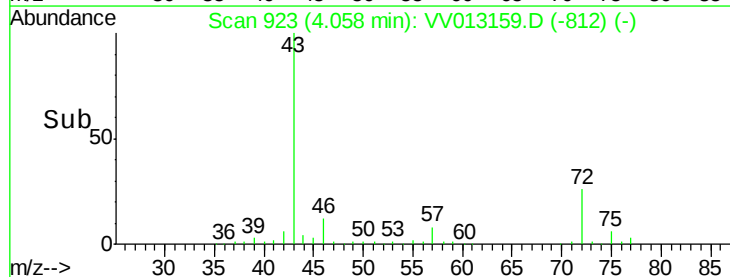
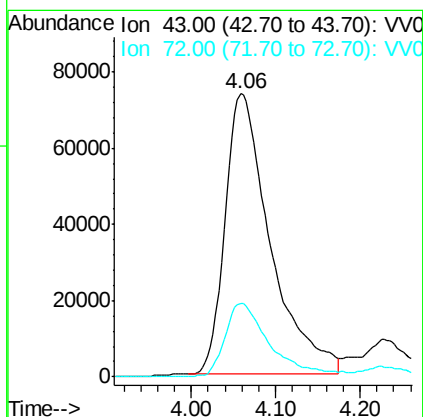
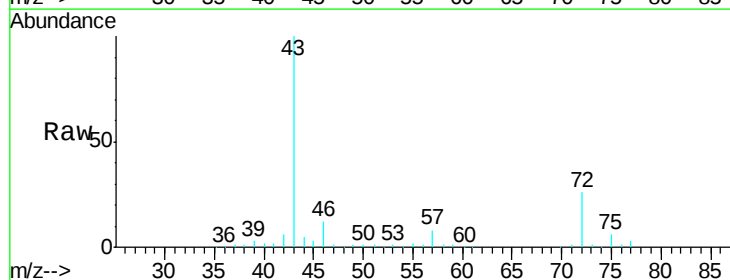
Tgt Ion: 73 Resp: 1540064
 Ion Ratio Lower Upper
 73 100
 43 17.9 15.0 22.6
 57 21.9 18.2 27.2

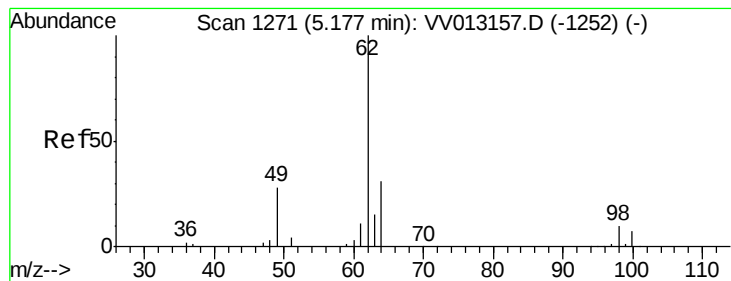


#22

2-Butanone
 Concen: 70.622 ug/L
 RT: 4.06 min Scan# 923
 Delta R.T. 0.06 min
 Lab File: VV013159.D
 Acq: 15 Oct 2019 11:37

Tgt Ion: 43 Resp: 275071
 Ion Ratio Lower Upper
 43 100
 72 25.4 12.8 38.4





#27

1,2-Dichloroethane

Concen: 81.184 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

Instrument :

MSVOA_V

ClientSampleId :

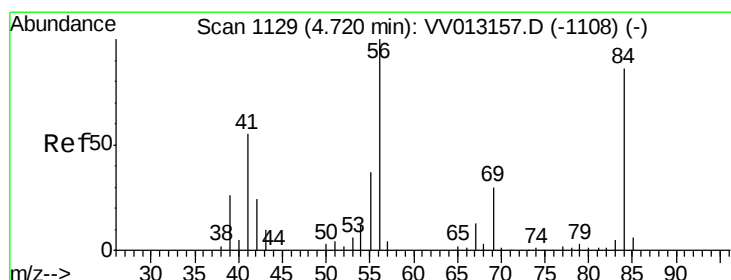
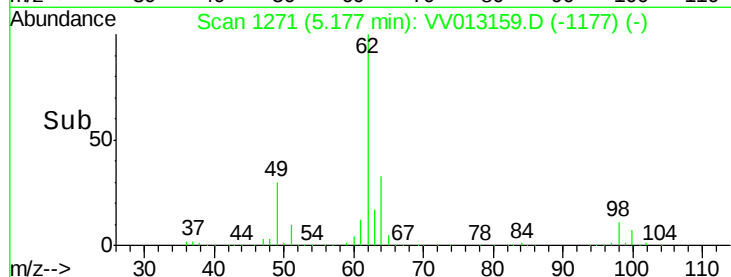
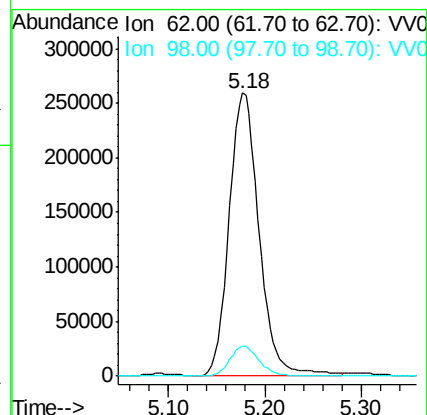
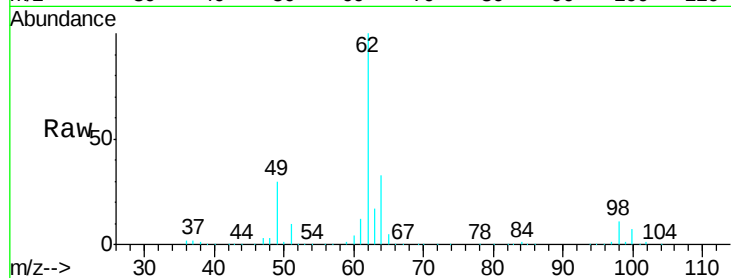
X2J19

Tgt Ion: 62 Resp: 557994

Ion Ratio Lower Upper

62 100

98 10.6 8.3 12.5



#29

Cyclohexane

Concen: 19.635 ug/L

RT: 4.71 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

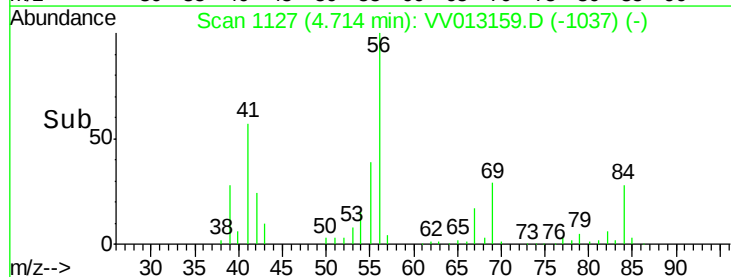
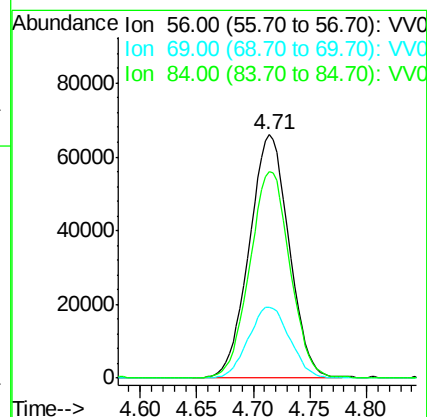
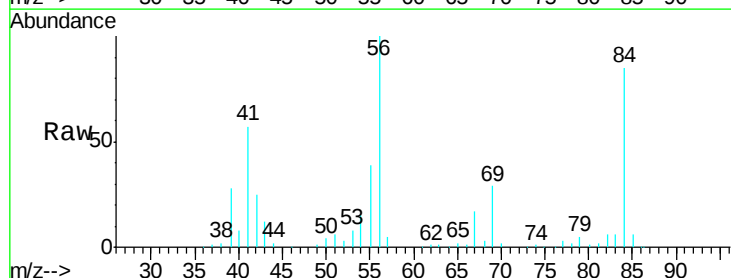
Tgt Ion: 56 Resp: 161734

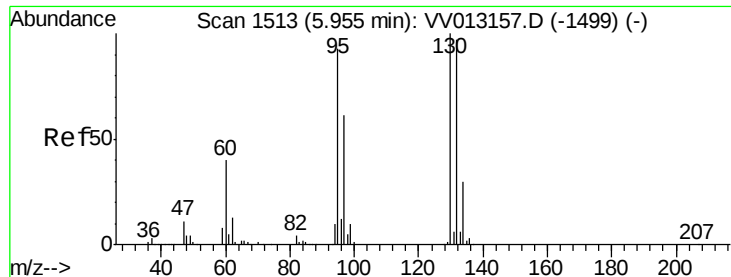
Ion Ratio Lower Upper

56 100

69 30.1 24.2 36.4

84 85.7 69.9 104.9

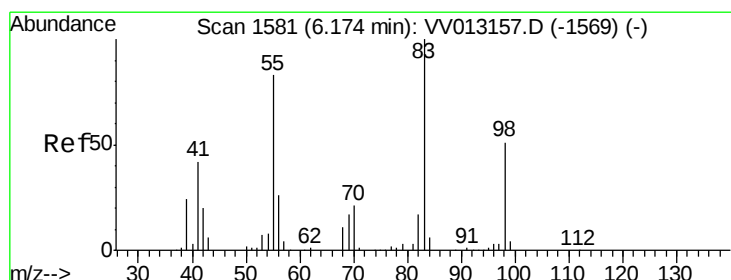
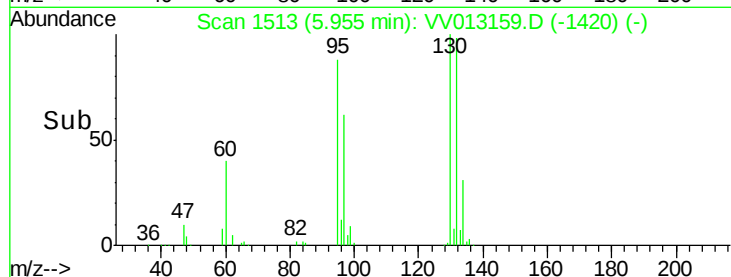
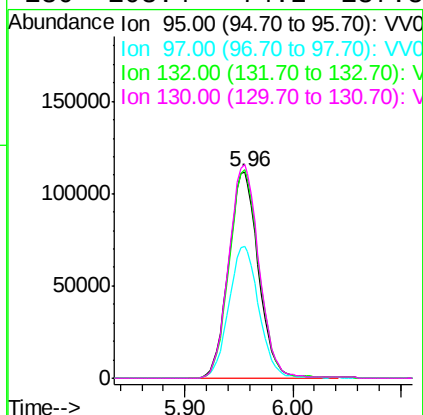
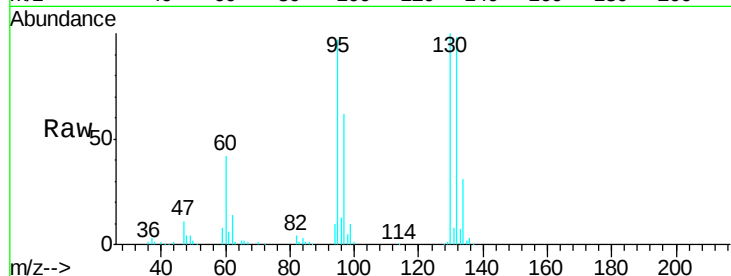




#34
 Trichloroethene
 Concen: 38.844 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV013159.D
 Acq: 15 Oct 2019 11:37

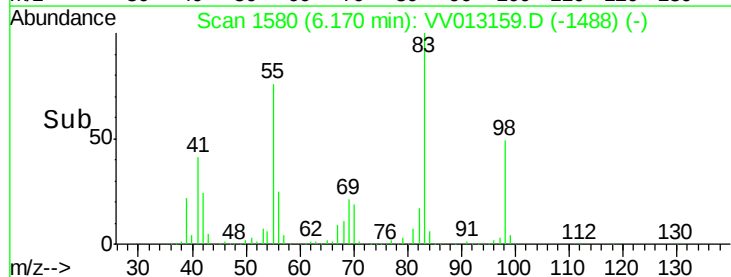
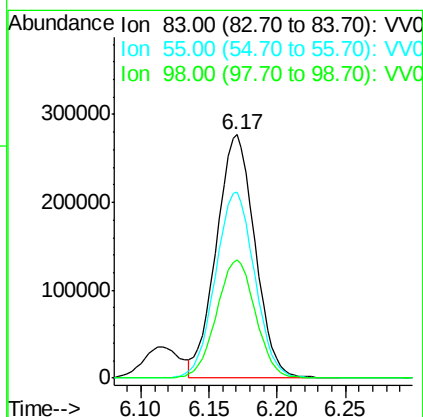
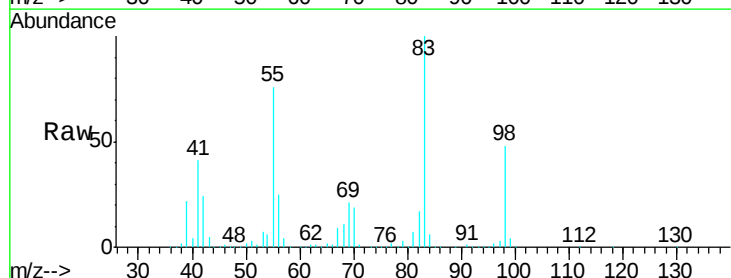
Instrument :
 MSVOA_V
 ClientSampleId :
 X2J19

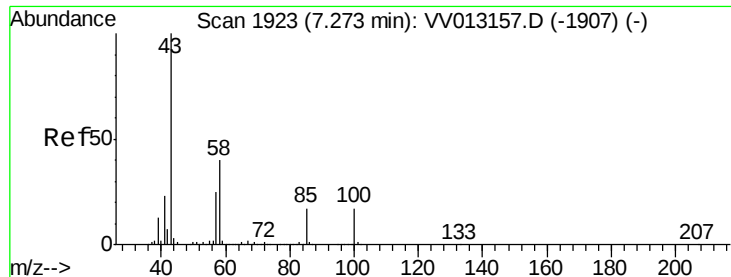
Tgt Ion	Resp	Lower	Upper
95	216658		
97	63.9	44.7	82.9
132	101.0	71.4	132.6
130	103.4	74.2	137.8



#35
 Methylcyclohexane
 Concen: 64.388 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VV013159.D
 Acq: 15 Oct 2019 11:37

Tgt Ion	Resp	Lower	Upper
83	543255		
55	78.1	61.2	91.8
98	49.0	40.1	60.1

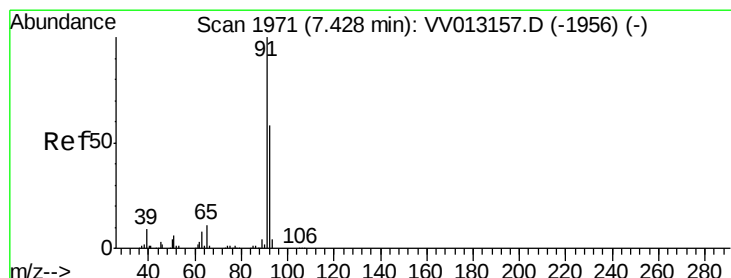
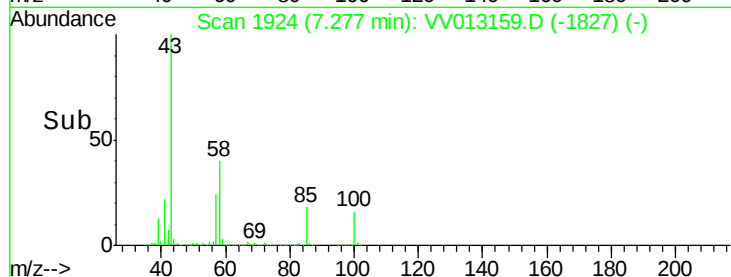
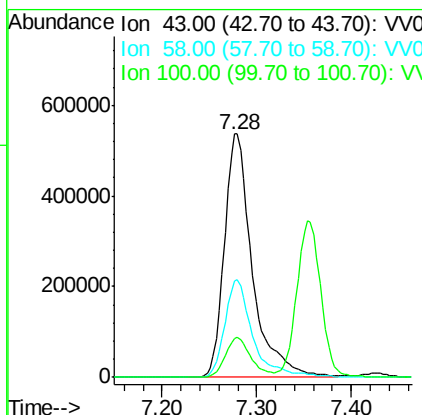
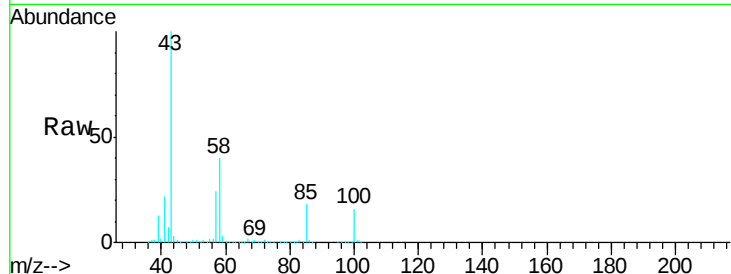




#40
4-Methyl-2-pentanone
Concen: 155.339 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. 0.01 min
Lab File: VV013159.D
Acq: 15 Oct 2019 11:37

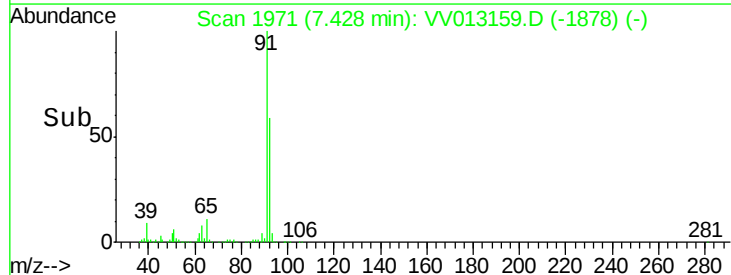
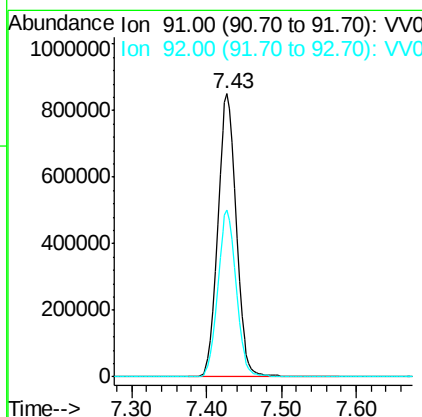
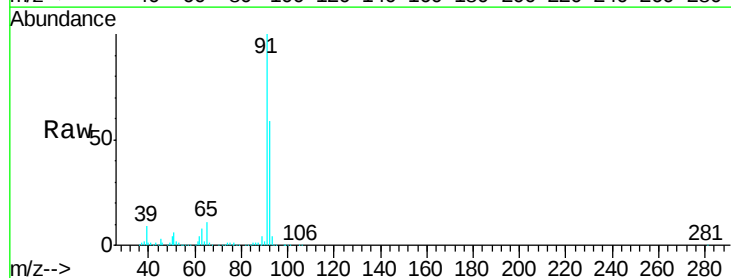
Instrument :
MSVOA_V
ClientSampled :
X2J19

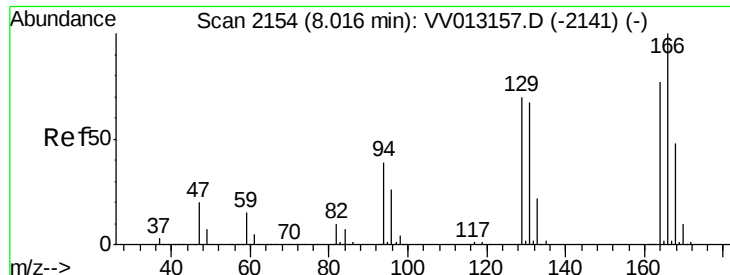
Tgt Ion: 43 Resp: 1103049
Ion Ratio Lower Upper
43 100
58 40.4 32.0 48.0
100 15.1 12.7 19.1



#42
Toluene
Concen: 67.405 ug/L
RT: 7.43 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VV013159.D
Acq: 15 Oct 2019 11:37

Tgt Ion: 91 Resp: 1453648
Ion Ratio Lower Upper
91 100
92 58.8 40.8 75.8

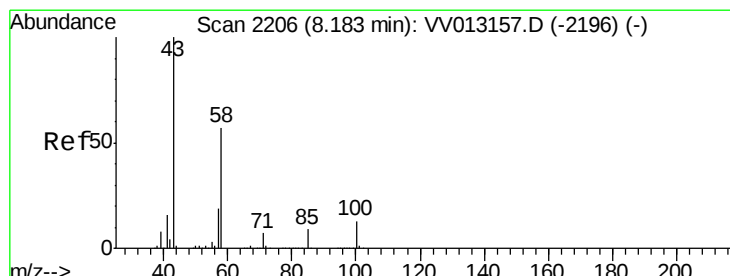
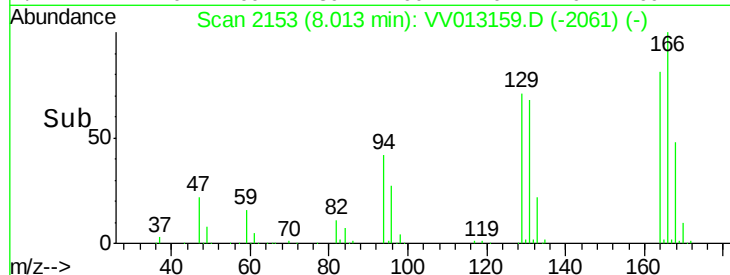
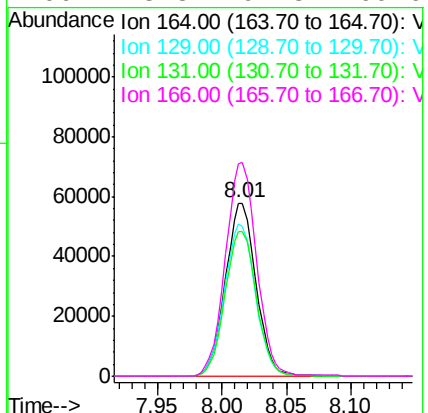
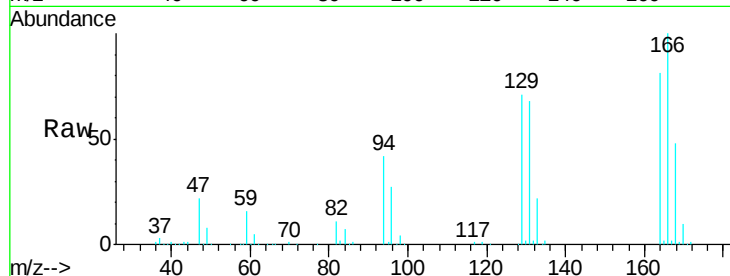




#46
Tetrachloroethene
Concen: 21.606 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. -0.00 min
Lab File: VV013159.D
Acq: 15 Oct 2019 11:37

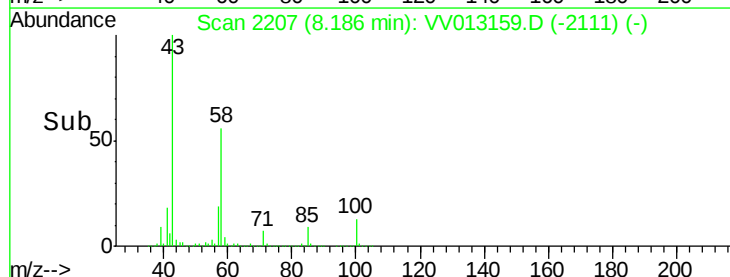
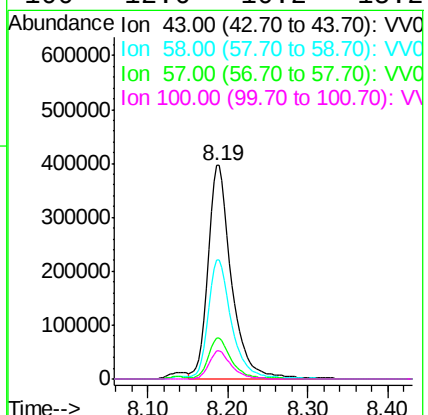
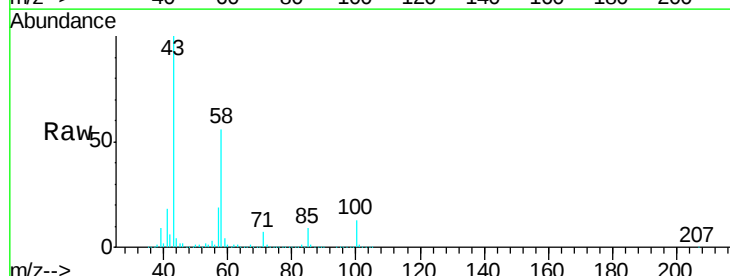
Instrument :
MSVOA_V
ClientSampled :
X2J19

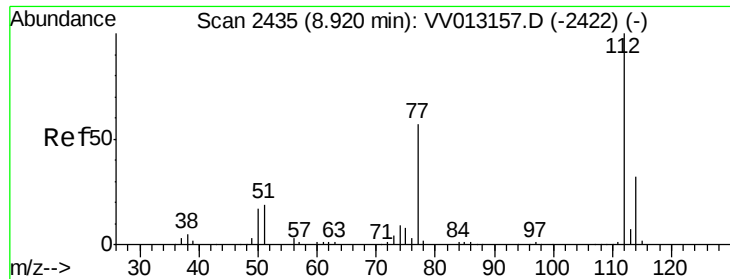
Tgt Ion:164 Resp: 95408
Ion Ratio Lower Upper
164 100
129 88.1 63.1 117.1
131 83.8 62.4 116.0
166 123.3 91.3 169.6



#48
2-Hexanone
Concen: 146.402 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.01 min
Lab File: VV013159.D
Acq: 15 Oct 2019 11:37

Tgt Ion: 43 Resp: 803901
Ion Ratio Lower Upper
43 100
58 55.3 44.9 67.3
57 18.6 15.0 22.6
100 12.6 10.2 15.2





#51

Chlorobenzene

Concen: 26.622 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

Instrument :

MSVOA_V

ClientSampleId :

X2J19

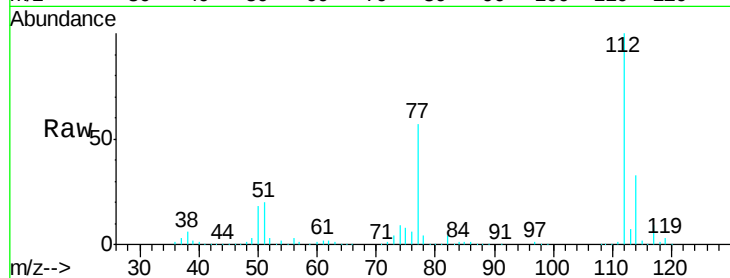
Tgt Ion: 112 Resp: 376505

Ion Ratio Lower Upper

112 100

114 32.7 22.8 42.4

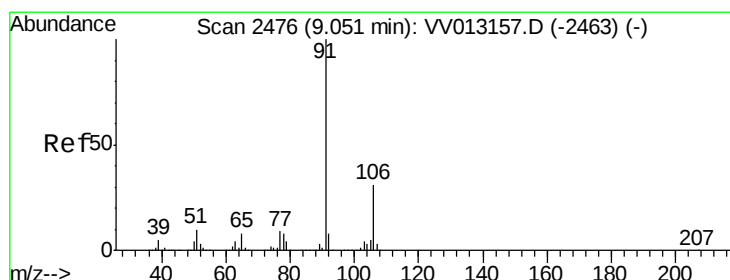
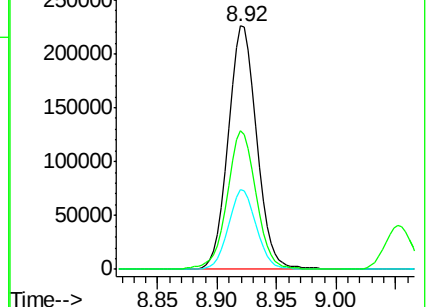
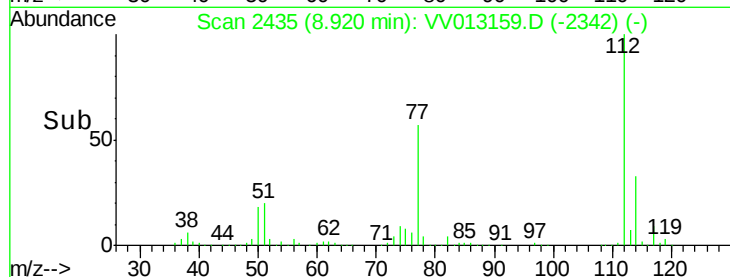
77 56.8 45.1 67.7



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: 31.282 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013159.D

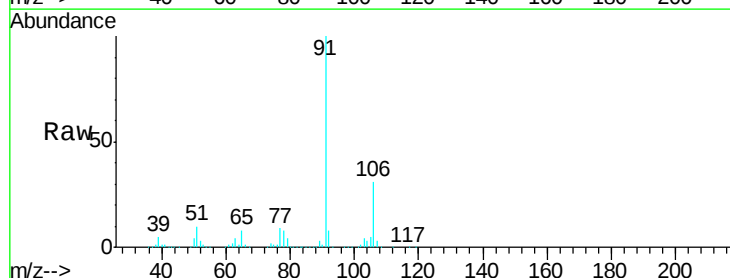
Acq: 15 Oct 2019 11:37

Tgt Ion: 91 Resp: 720596

Ion Ratio Lower Upper

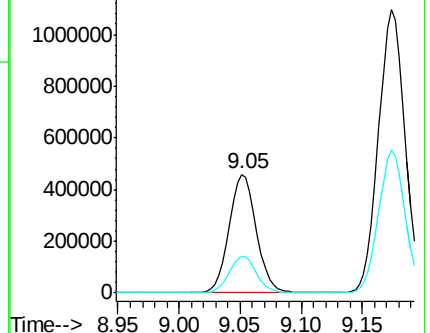
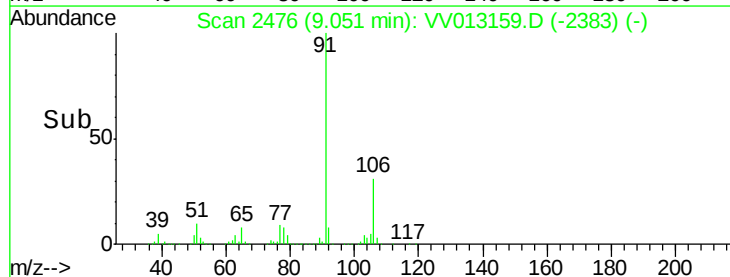
91 100

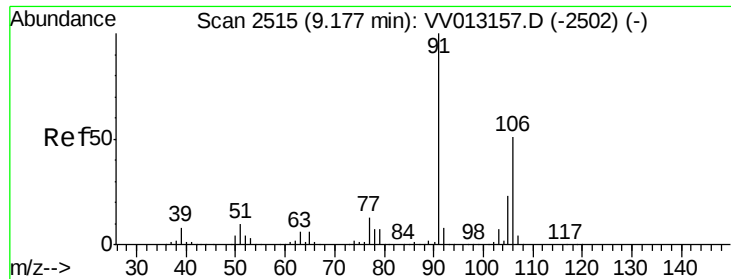
106 31.0 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 96.457 ug/L

RT: 9.17 min Scan# 2514

Delta R.T. -0.00 min

Lab File: VV013159.D

Acq: 15 Oct 2019 11:37

Instrument :

MSVOA_V

ClientSampleId :

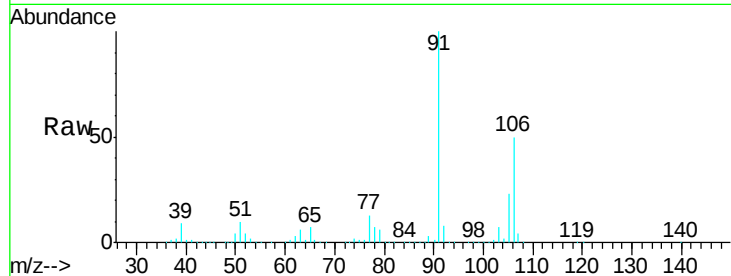
X2J19

Tgt Ion:106 Resp: 835940

Ion Ratio Lower Upper

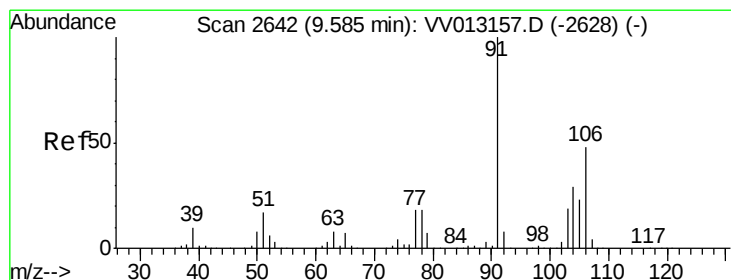
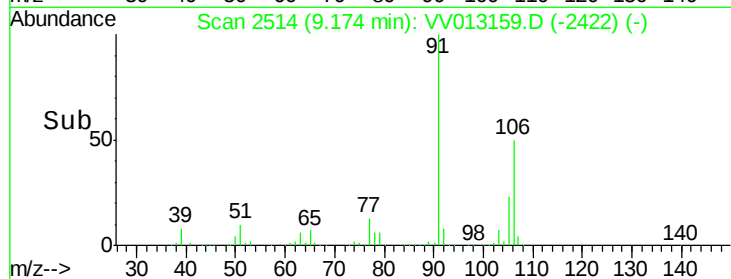
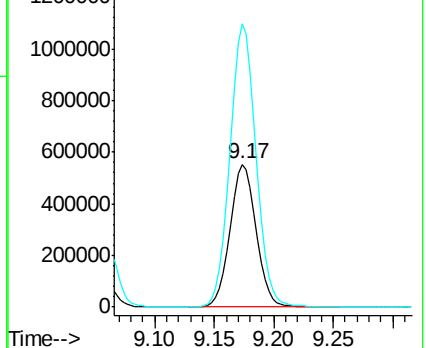
106 100

91 198.5 137.8 255.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 43.576 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013159.D

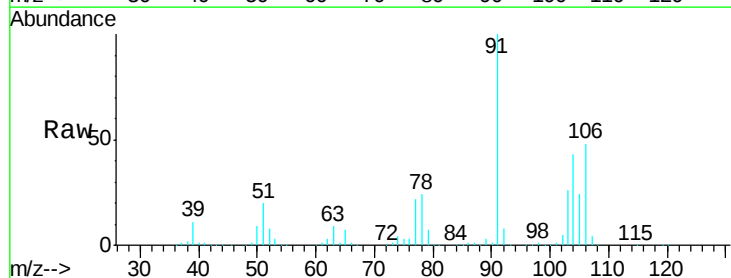
Acq: 15 Oct 2019 11:37

Tgt Ion:106 Resp: 378360

Ion Ratio Lower Upper

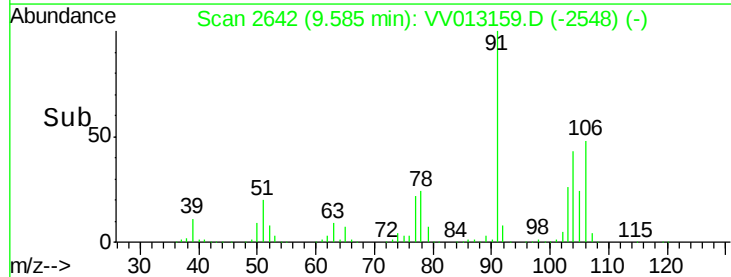
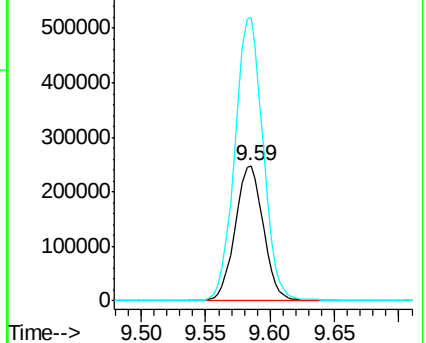
106 100

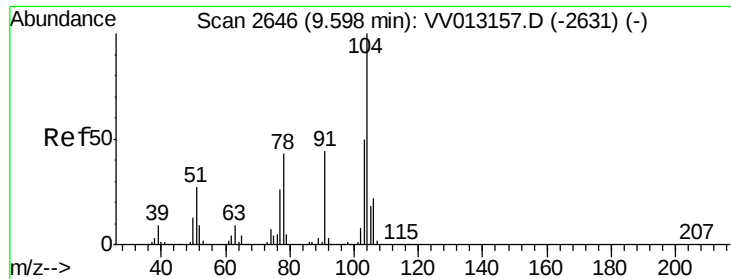
91 209.6 147.6 274.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

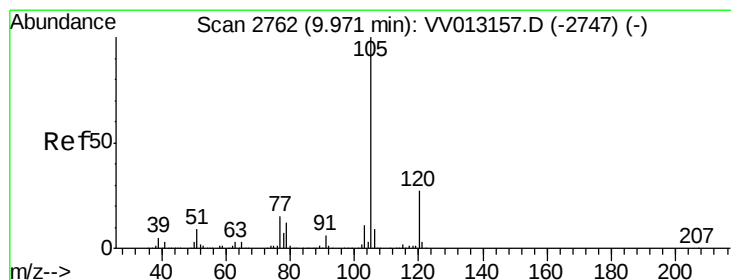
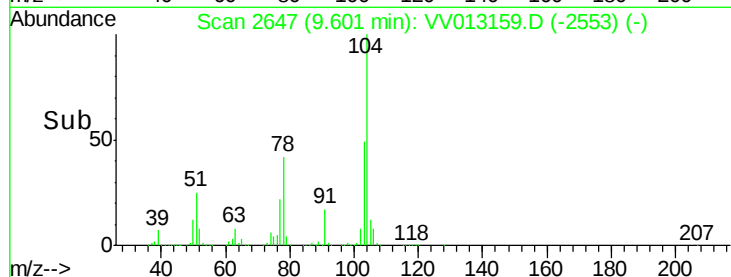
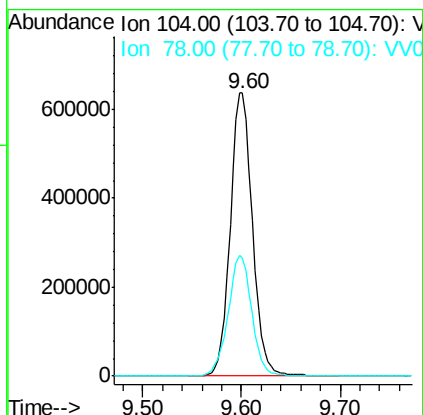
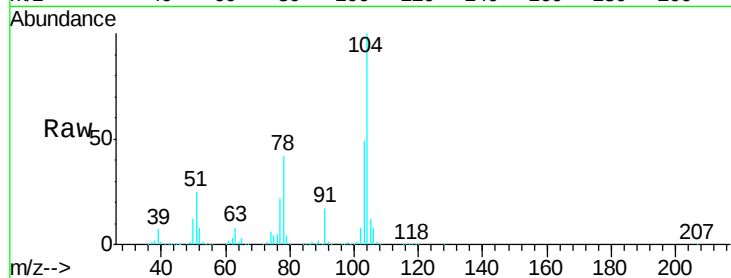




#55
Styrene
Concen: 70.378 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV013159.D
Acq: 15 Oct 2019 11:37

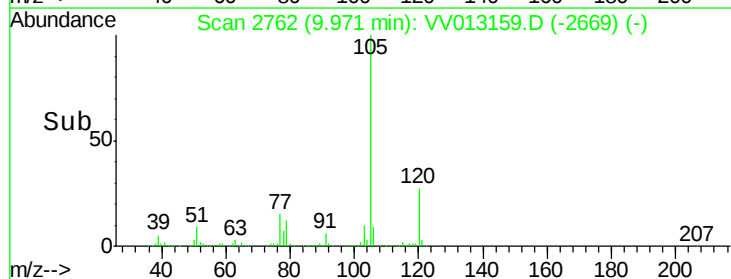
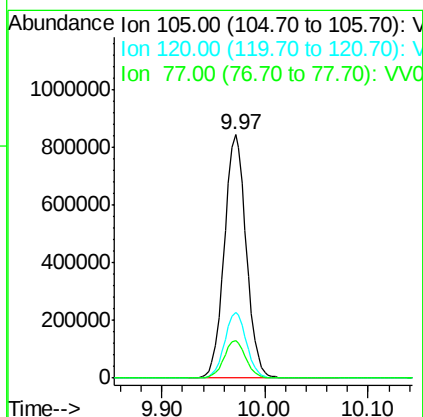
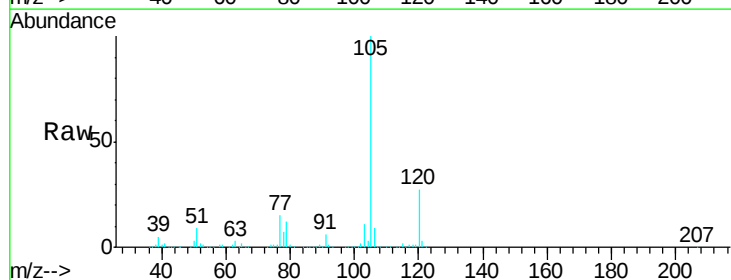
Instrument :
MSVOA_V
ClientSampleId :
X2J19

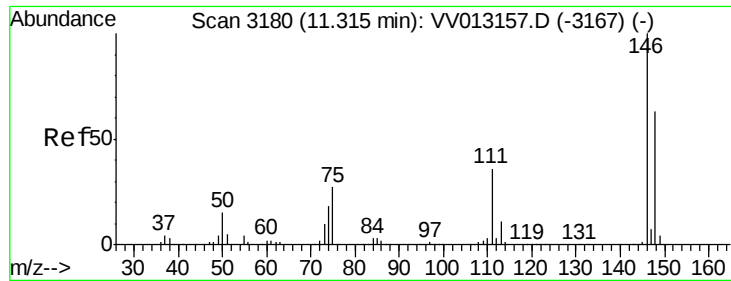
Tgt Ion:104 Resp: 1003545
Ion Ratio Lower Upper
104 100
78 41.7 29.1 54.1



#56
Isopropylbenzene
Concen: 55.847 ug/L
RT: 9.97 min Scan# 2762
Delta R.T. 0.00 min
Lab File: VV013159.D
Acq: 15 Oct 2019 11:37

Tgt Ion:105 Resp: 1245128
Ion Ratio Lower Upper
105 100
120 26.9 21.4 32.2
77 15.4 12.1 18.1

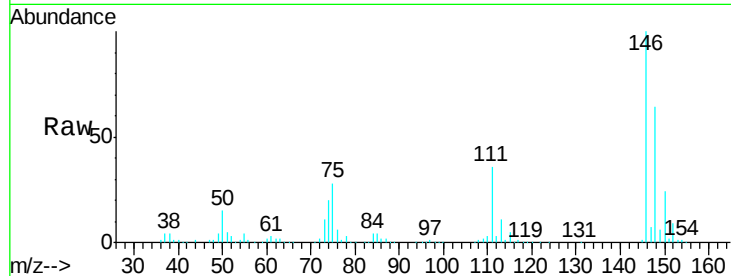




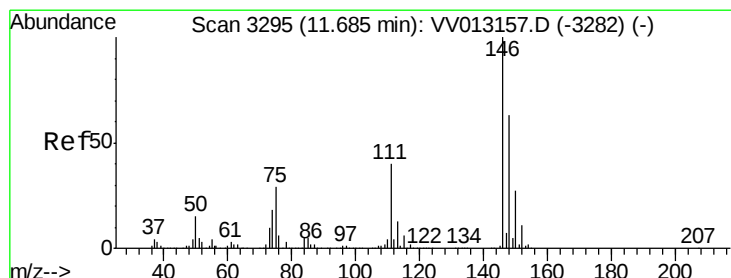
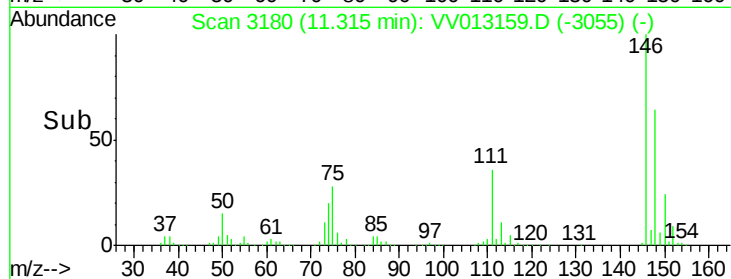
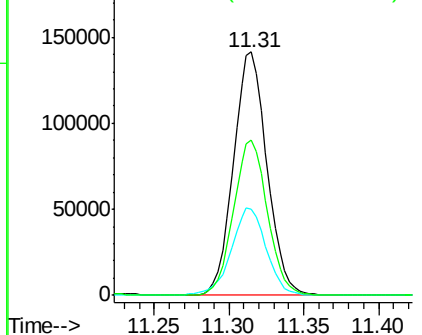
#63
1,4-Dichlorobenzene
Concen: 21.986 ug/L
RT: 11.31 min Scan# 3180
Delta R.T. 0.00 min
Lab File: VV013159.D
Acq: 15 Oct 2019 11:37

Instrument :
MSVOA_V
ClientSampled :
X2J19

Tgt Ion:146 Resp: 220344
Ion Ratio Lower Upper
146 100
111 35.6 25.4 47.2
148 63.7 44.2 82.2

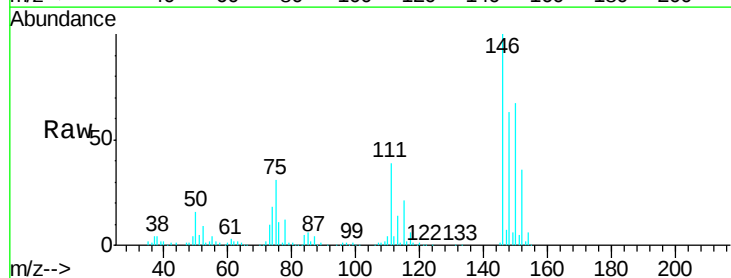


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

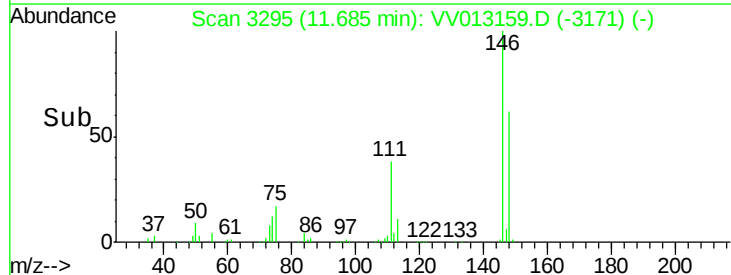
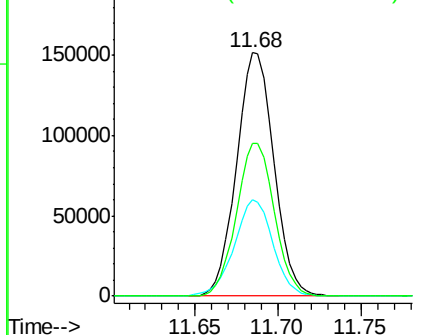


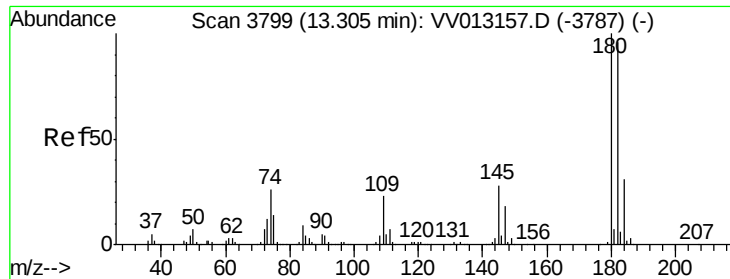
#65
1,2-Dichlorobenzene
Concen: 23.398 ug/L
RT: 11.68 min Scan# 3295
Delta R.T. 0.00 min
Lab File: VV013159.D
Acq: 15 Oct 2019 11:37

Tgt Ion:146 Resp: 237719
Ion Ratio Lower Upper
146 100
111 39.4 32.2 48.2
148 62.7 50.6 76.0



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

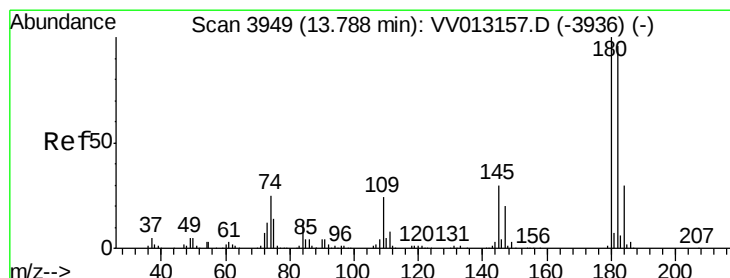
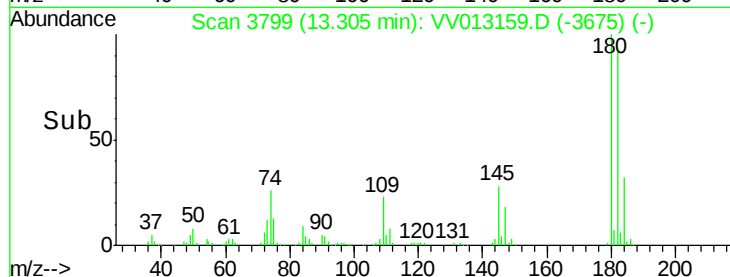
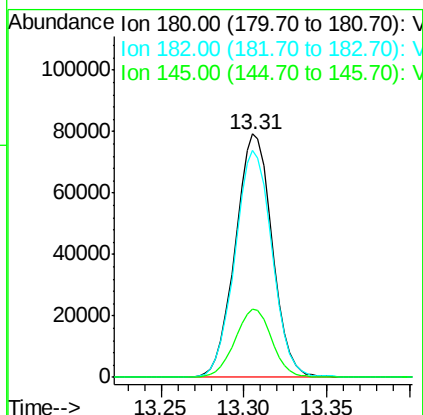
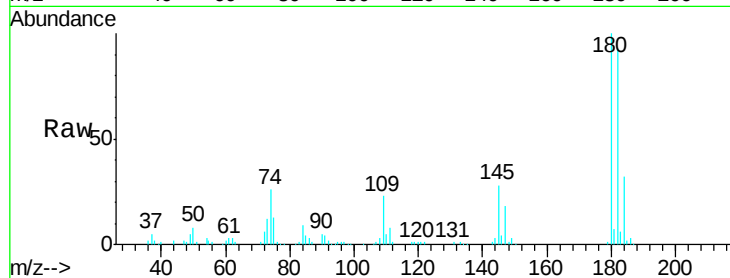




#68
 1,2,4-trichlorobenzene
 Concen: 20.032 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013159.D
 Acq: 15 Oct 2019 11:37

Instrument :
 MSVOA_V
 ClientSampleId :
 X2J19

Tgt Ion:180 Resp: 122290
 Ion Ratio Lower Upper
 180 100
 182 94.1 77.4 116.0
 145 28.1 22.7 34.1



#70
 1,2,3-Trichlorobenzene
 Concen: 63.396 ug/L
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.00 min
 Lab File: VV013159.D
 Acq: 15 Oct 2019 11:37

Tgt Ion:180 Resp: 413995
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.9 115.3
 145 30.3 23.8 35.8

