

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102419\
 Data File : VV013317.D
 Acq On : 24 Oct 2019 15:26
 Operator : SY/MD
 Sample : K5308-01DL 4X
 Misc : 5.00ML/MSVOA V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 X2J19

Quant Time: Oct 25 16:46:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 25 13:28:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	1280604	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	1242782	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	611748	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	374697	44.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.28%
7) Chloroethane-d5	1.58	69	311739	47.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.16%
11) 1,1-Dichloroethene-d2	2.13	63	476059	38.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.66%
21) 2-Butanone-d5	3.92	46	591330	103.96	ug/L	-0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.96%
24) Chloroform-d	4.40	84	817197	44.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.34%
26) 1,2-Dichloroethane-d4	5.08	65	519772	47.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.70%
32) Benzene-d6	5.10	84	1730541	45.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.46%
36) 1,2-Dichloropropane-d6	6.11	67	542017	45.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.50%
41) Toluene-d8	7.36	98	1612858	46.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.50%
43) trans-1,3-Dichloropropene-	7.66	79	246785	47.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.42%
47) 2-Hexanone-d5	8.13	63	406818	113.37	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.37%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	700390	44.72	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.44%
64) 1,2-Dichlorobenzene-d4	11.67	152	684039	48.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.46%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	20392	1.852	ug/L	98
3) Chloromethane	1.25	50	24265	2.925	ug/L	97
6) Bromomethane	1.53	94	12145	2.767	ug/L	91
9) Trichlorofluoromethane	1.77	101	39630	3.329	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	47446	7.051	ug/L	92
13) Acetone	2.18	43	497345	118.329	ug/L	95
15) Methyl Acetate	2.45	43	163213	18.657	ug/L	100
16) Methylene chloride	2.54	84	34915	3.623	ug/L	97
18) Methyl tert-butyl Ether	2.80	73	545120	21.030	ug/L	100
22) 2-Butanone	4.01	43	93398	15.497	ug/L	96
27) 1,2-Dichloroethane	5.18	62	155141	12.867	ug/L	99
29) Cyclohexane	4.73	56	21240	1.475	ug/L	97
34) Trichloroethene	5.96	95	53032	5.366	ug/L	98
35) Methylcyclohexane	6.18	83	76706	5.106	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	346010	29.284	ug/L	98
42) Toluene	7.43	91	361291	9.336	ug/L	100
46) Tetrachloroethene	8.02	164	23931	2.715	ug/L	96

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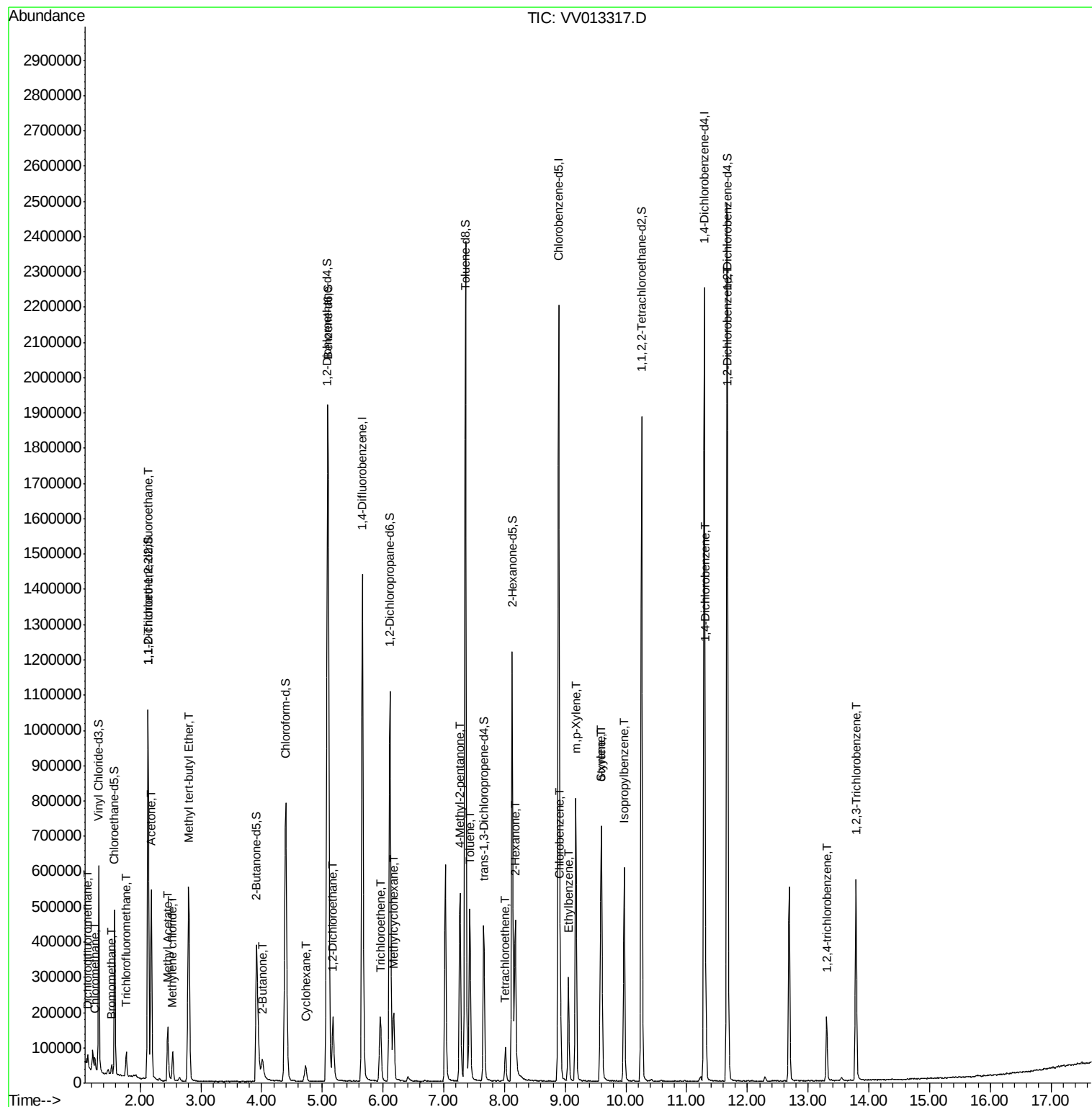
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.18	43	272941	28.458	ug/L	98
51) Chlorobenzene	8.92	112	125079	4.753	ug/L	95
52) Ethylbenzene	9.05	91	205165	5.018	ug/L	99
53) m,p-Xylene	9.17	106	224246	14.123	ug/L	99
54) o-xylene	9.59	106	110016	7.105	ug/L	99
55) Styrene	9.60	104	301683	11.488	ug/L	100
56) Isopropylbenzene	9.97	105	388215	9.813	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	95568	4.659	ug/L	97
65) 1,2-Dichlorobenzene	11.68	146	104912	5.153	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	61589	4.934	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	195008	14.582	ug/L	98

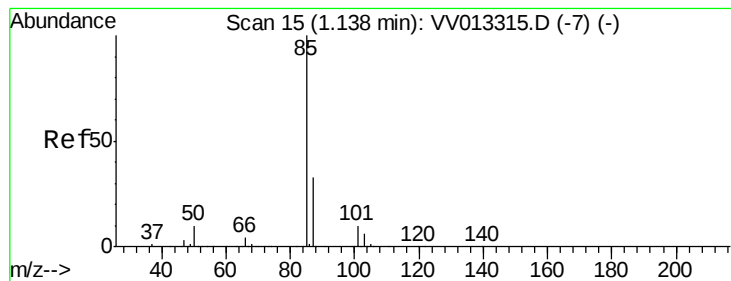
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.852 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

Instrument :

MSVOA_V

ClientSampleId :

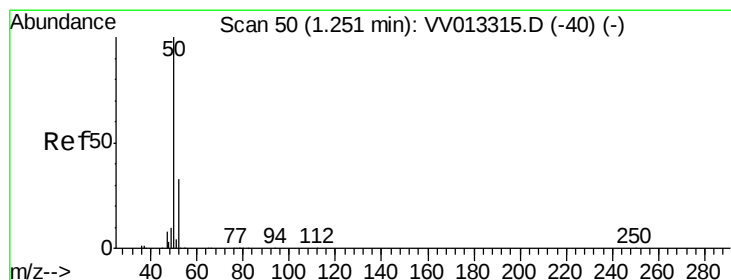
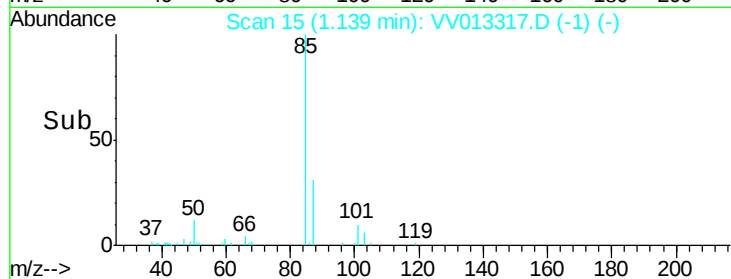
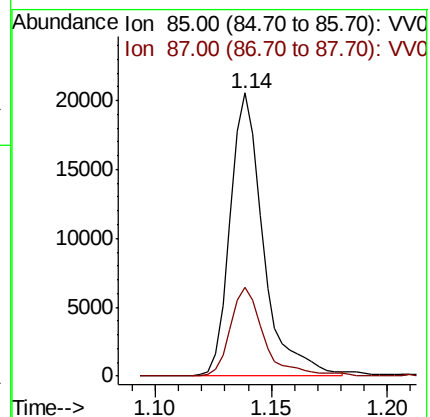
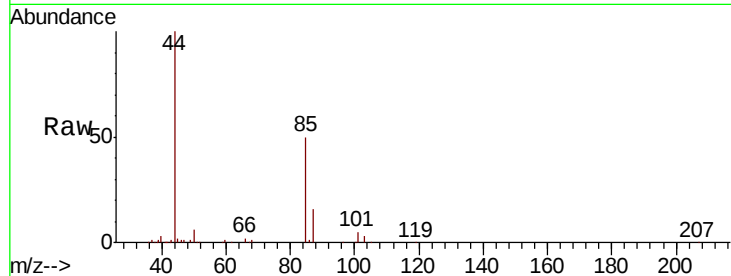
X2J19

Tot Ion: 85 Resp: 20392

Ion Ratio Lower Upper

85 100

87 31.2 25.8 38.8



#3

Chloromethane

Concen: 2.925 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013317.D

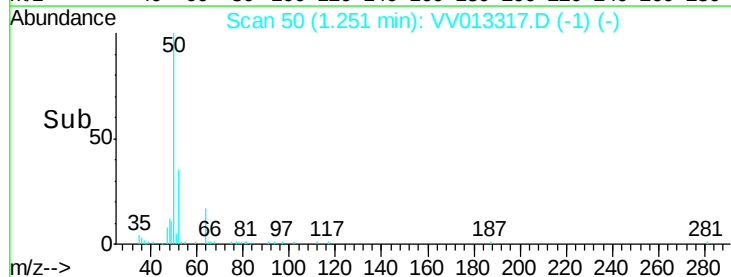
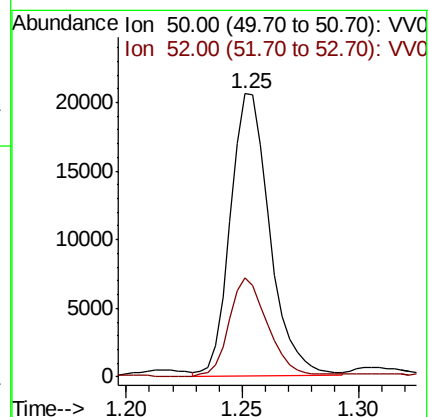
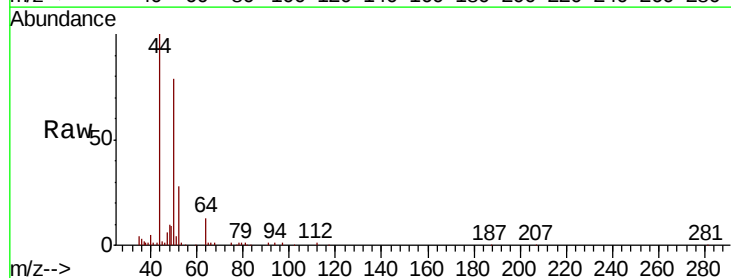
Acq: 24 Oct 2019 15:26

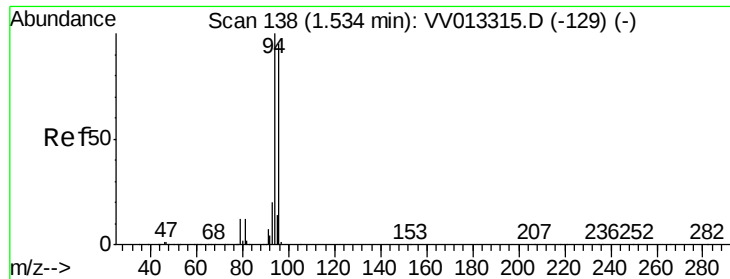
Tgt Ion: 50 Resp: 24265

Ion Ratio Lower Upper

50 100

52 35.1 23.2 43.2





#6

Bromomethane

Concen: 2.767 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

Instrument :

MSVOA_V

ClientSampleId :

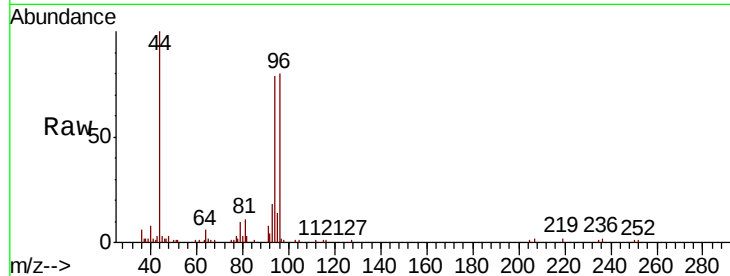
X2J19

Tot Ion: 94 Resp: 12145

Ion Ratio Lower Upper

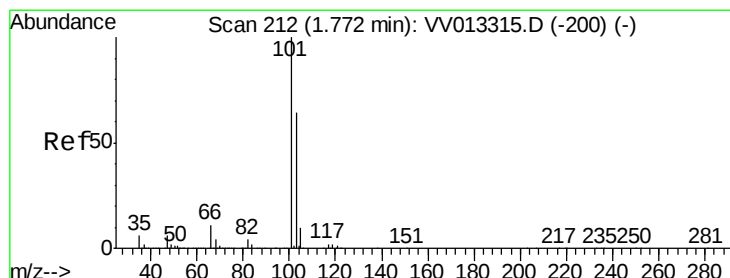
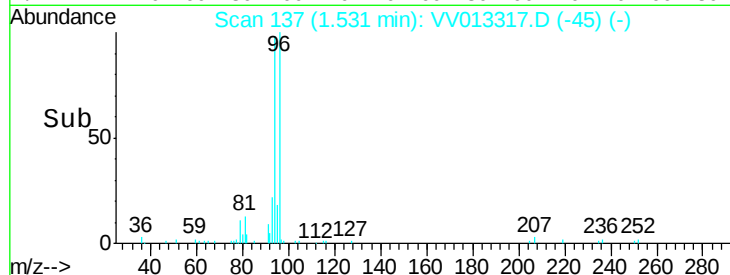
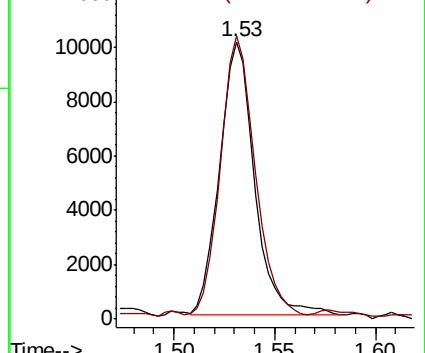
94 100

96 102.2 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



#9

Trichlorofluoromethane

Concen: 3.329 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV013317.D

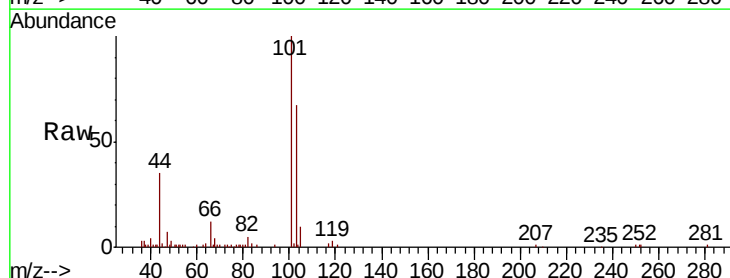
Acq: 24 Oct 2019 15:26

Tgt Ion:101 Resp: 39630

Ion Ratio Lower Upper

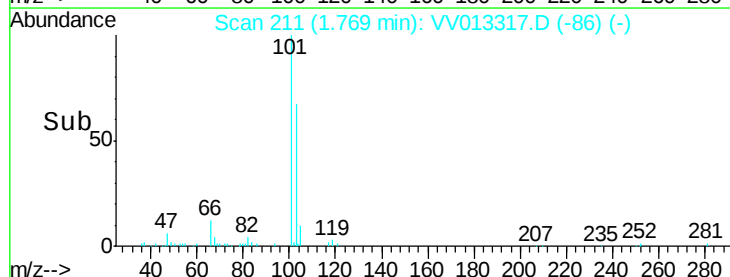
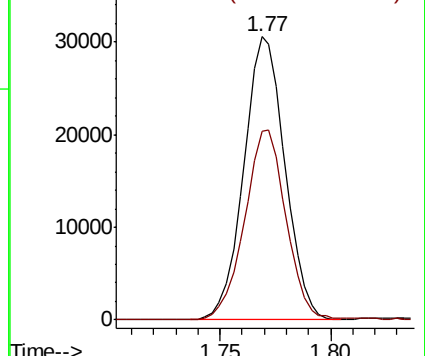
101 100

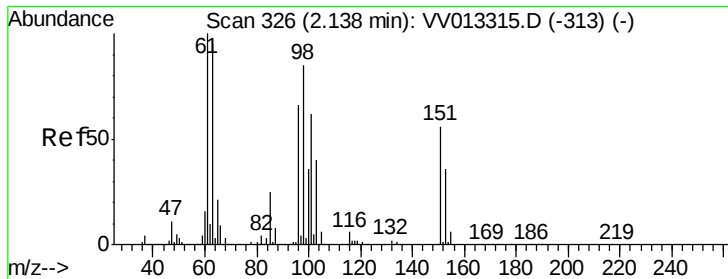
103 67.2 53.0 79.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 7.051 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

Instrument :

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ClientSampleId :

X2J19

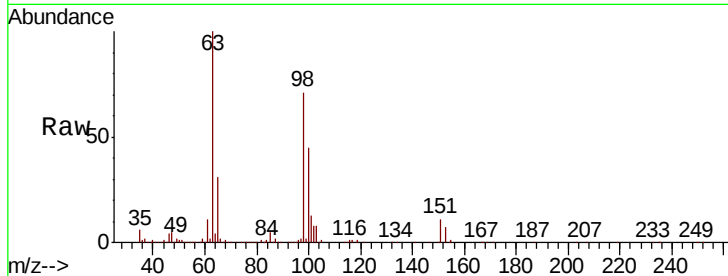
Tot Ion:101 Resp: 47446

Ion Ratio Lower Upper

101 100

85 37.5 31.4 47.2

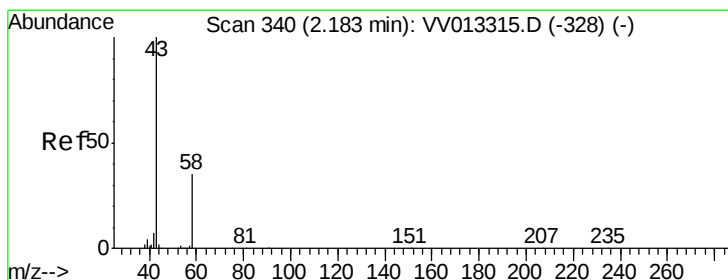
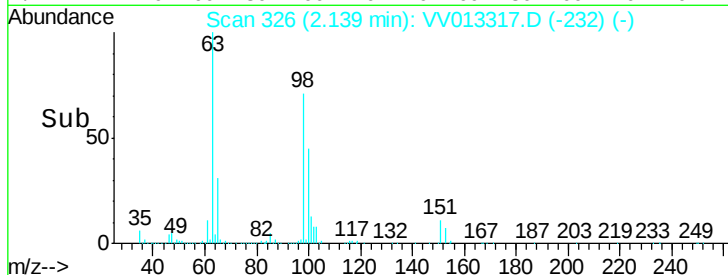
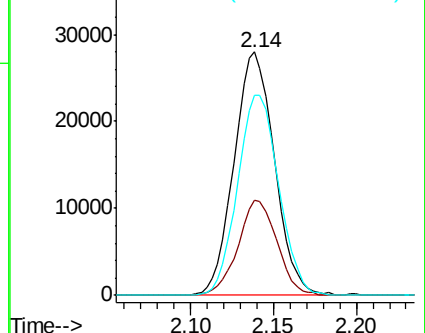
151 83.6 74.6 112.0



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: 118.329 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.03 min

Lab File: VV013317.D

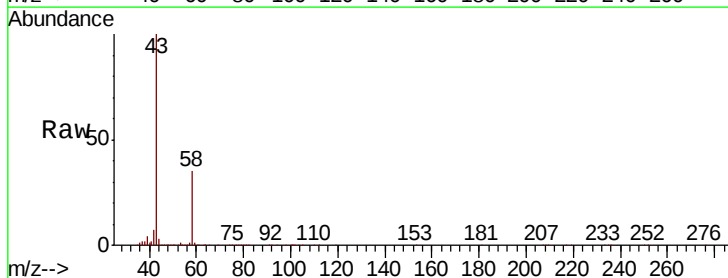
Acq: 24 Oct 2019 15:26

Tgt Ion: 43 Resp: 497345

Ion Ratio Lower Upper

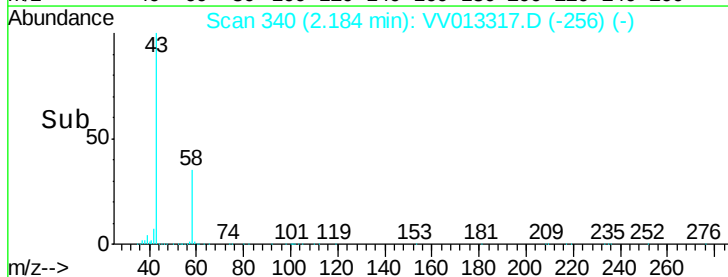
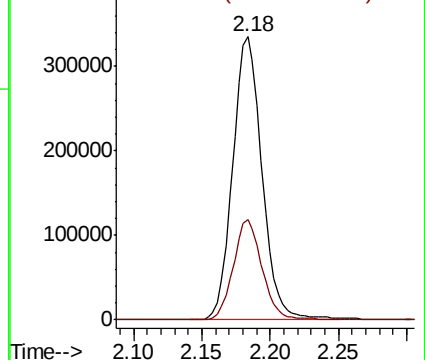
43 100

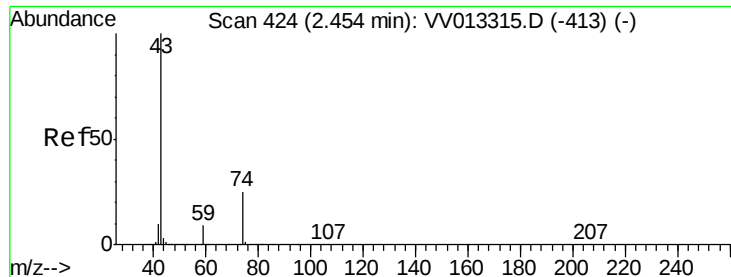
58 34.8 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

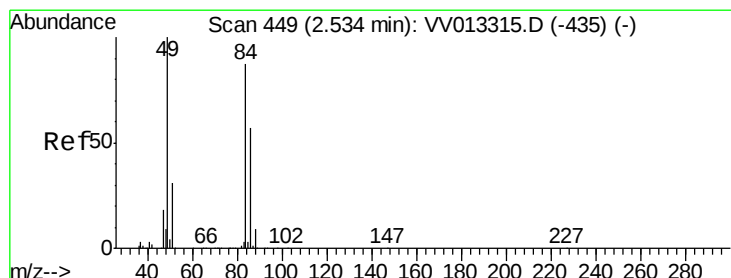
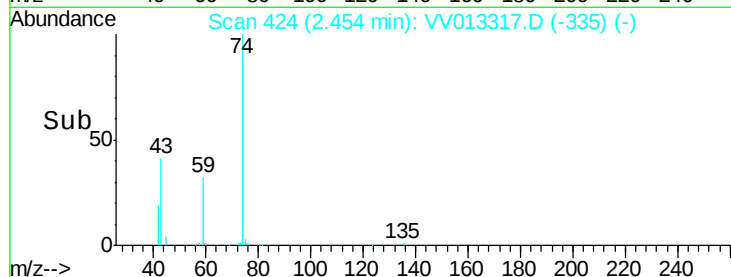
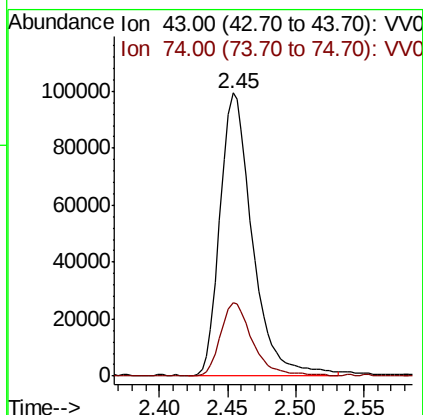
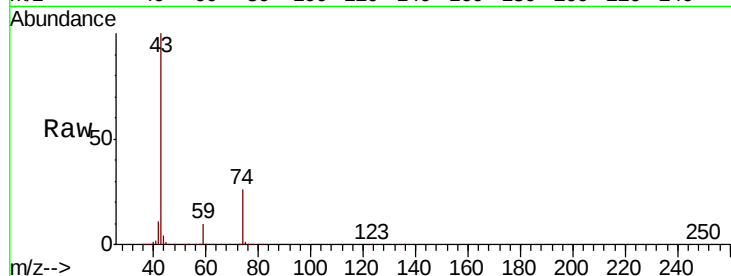




#15
Methvl Acetate
Concen: 18.657 ug/L
RT: 2.45 min Scan# 424
Delta R.T. -0.01 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

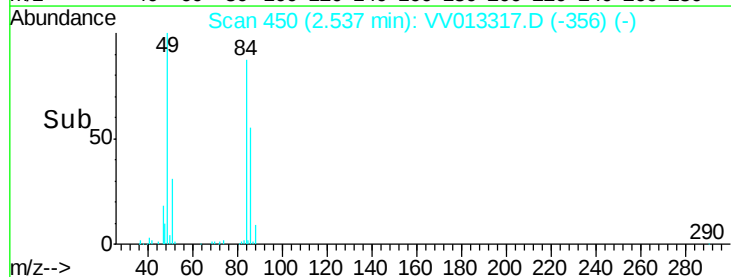
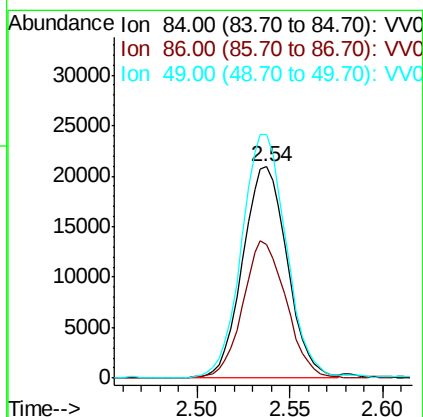
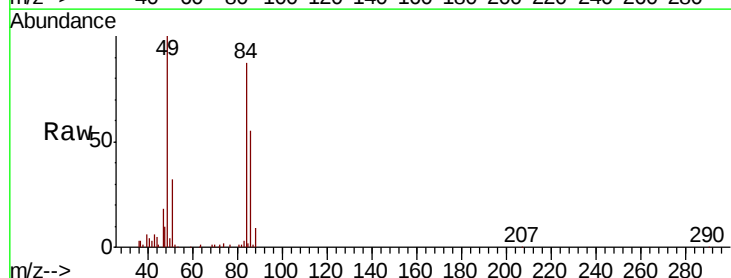
Instrument :
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ClientSampled :
X2J19

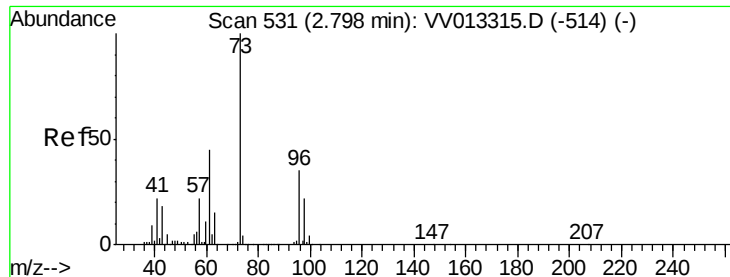
Tot Ion: 43 Resp: 163213
Ion Ratio Lower Upper
43 100
74 25.9 20.6 31.0



#16
Methylene chloride
Concen: 3.623 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

Tgt Ion: 84 Resp: 34915
Ion Ratio Lower Upper
84 100
86 63.2 46.2 85.8
49 115.2 82.7 153.5

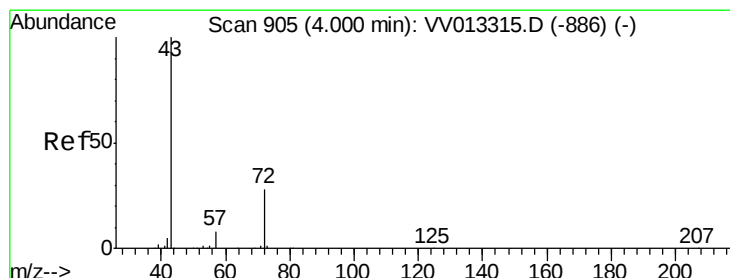
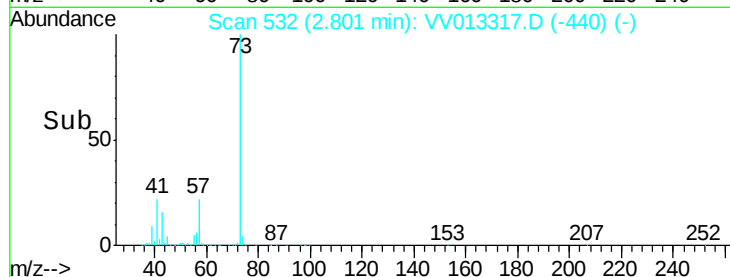
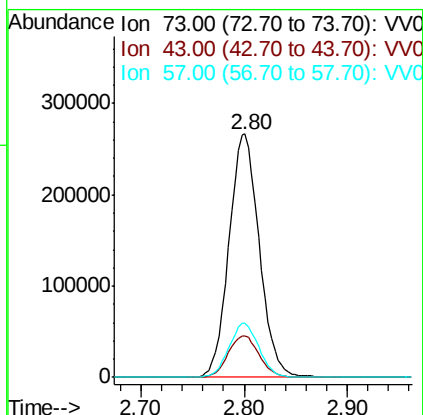
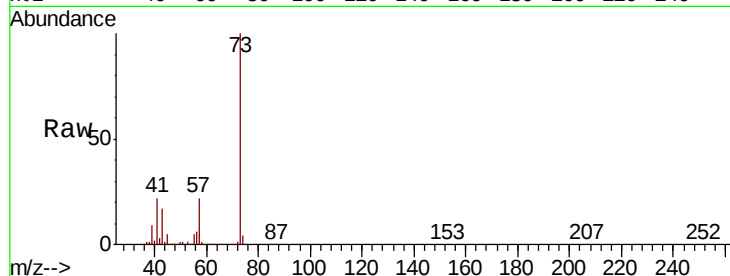




#18
Methvl tert-butvl Ether
Concen: 21.030 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

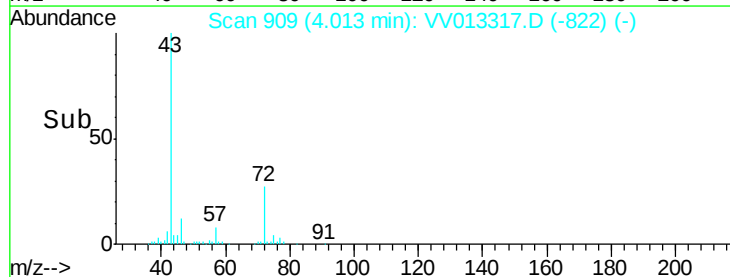
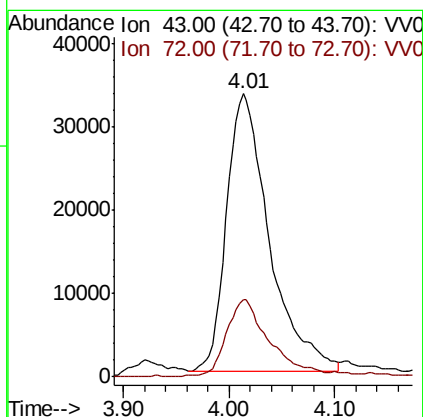
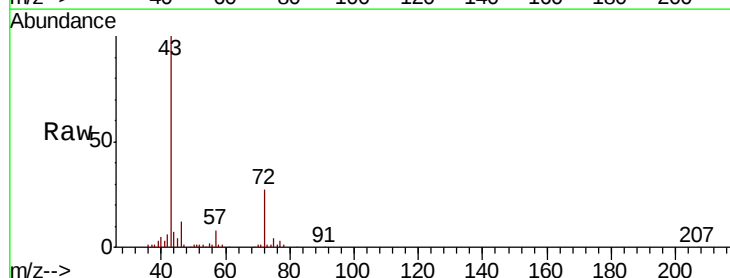
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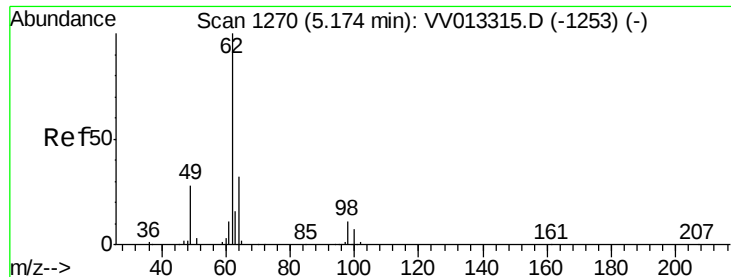
Tot Ion: 73 Resp: 545120
Ion Ratio Lower Upper
73 100
43 17.5 14.2 21.2
57 22.1 17.6 26.4



#22
2-Butanone
Concen: 15.497 ug/L
RT: 4.01 min Scan# 909
Delta R.T. -0.02 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

Tgt Ion: 43 Resp: 93398
Ion Ratio Lower Upper
43 100
72 27.8 13.0 38.9





#27

1,2-Dichloroethane

Concen: 12.867 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

Instrument :

MSVOA_V

ClientSampleId :

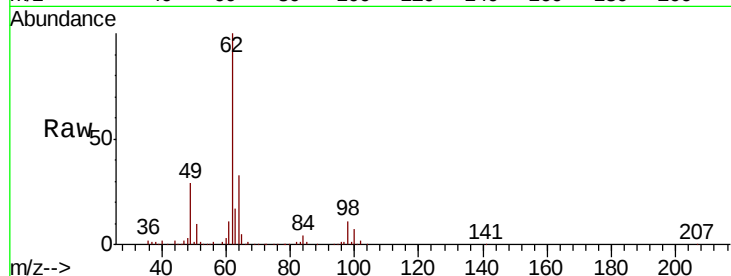
X2J19

Tot Ion: 62 Resp: 155141

Ion Ratio Lower Upper

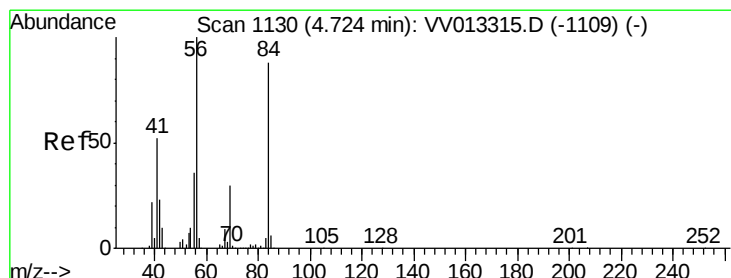
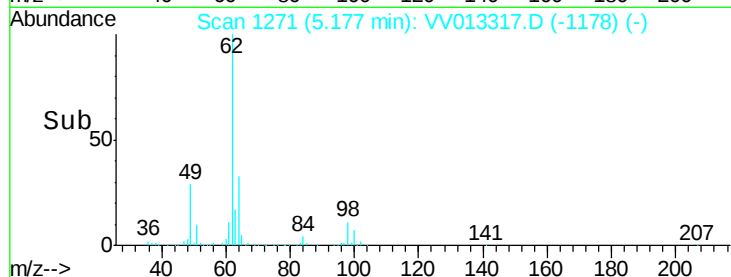
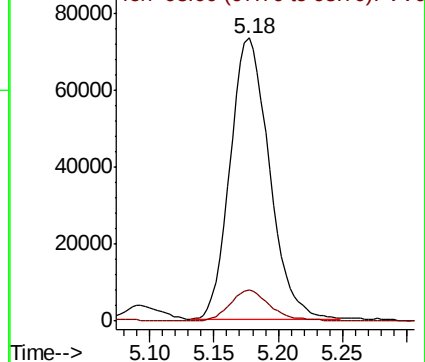
62 100

98 10.9 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#29

Cyclohexane

Concen: 1.475 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

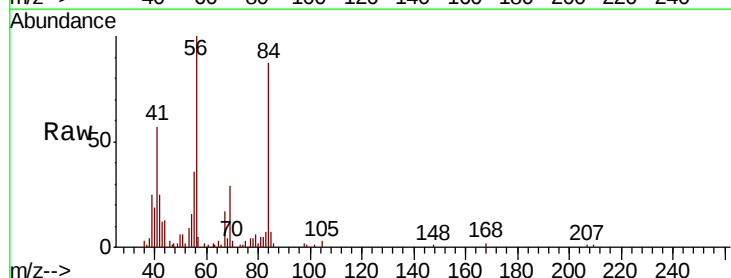
Tgt Ion: 56 Resp: 21240

Ion Ratio Lower Upper

56 100

69 31.7 24.4 36.6

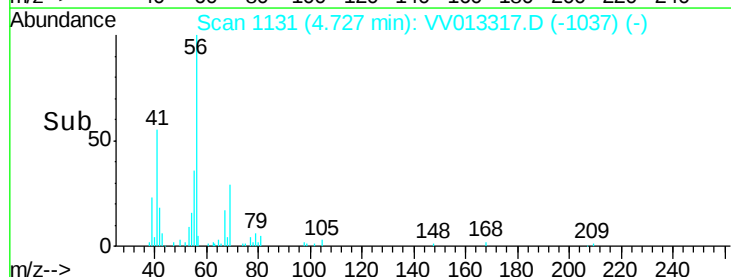
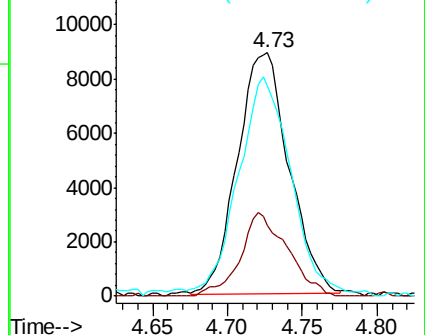
84 91.3 70.5 105.7

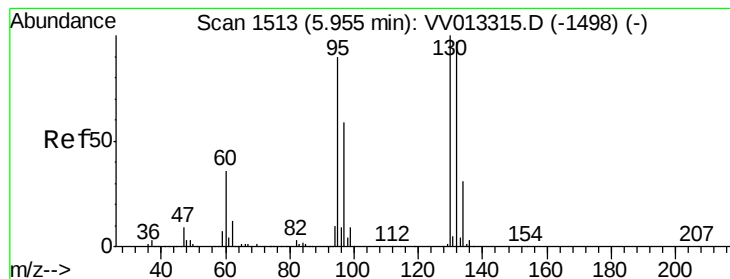


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0





#34

Trichloroethene

Concen: 5.366 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

Instrument :

MSVOA_V

ClientSampleId :

X2J19

Tot Ion: 95 Resp: 53032

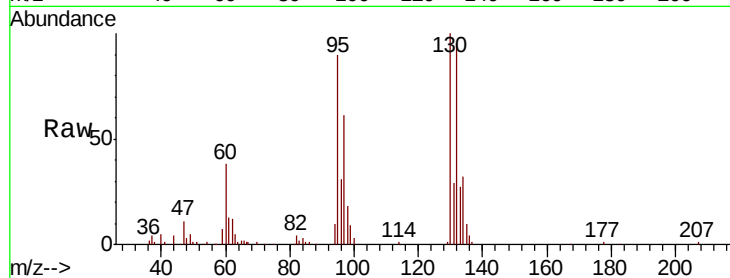
Ion Ratio Lower Upper

95 100

97 67.8 45.3 84.1

132 105.6 75.5 140.1

130 110.7 77.7 144.3

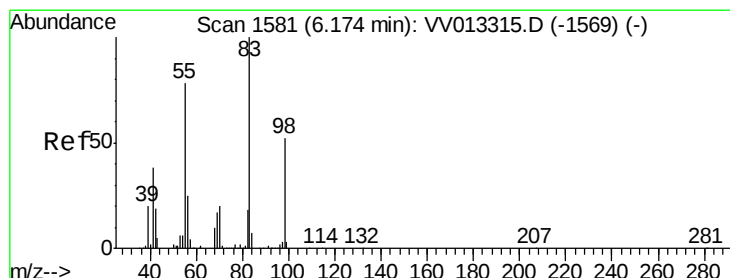
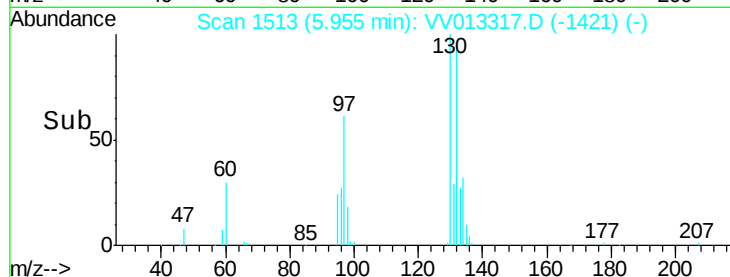
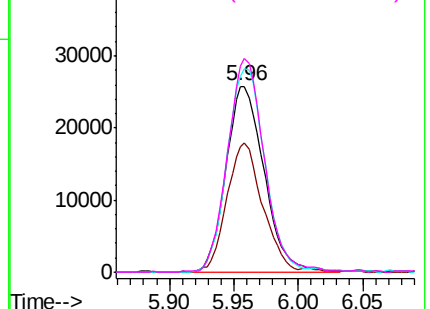


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 5.106 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

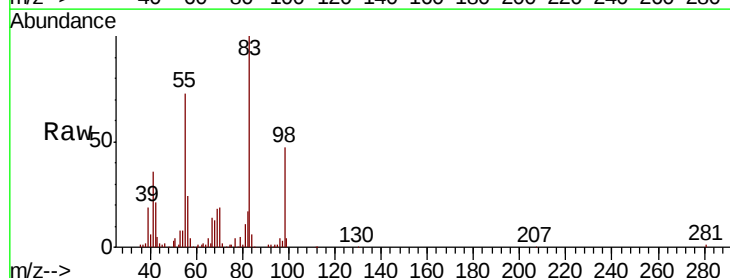
Tgt Ion: 83 Resp: 76706

Ion Ratio Lower Upper

83 100

55 77.3 59.0 88.4

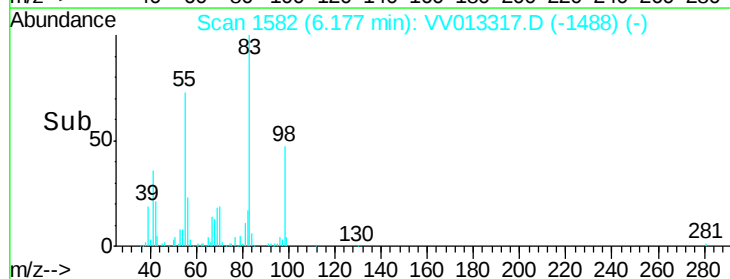
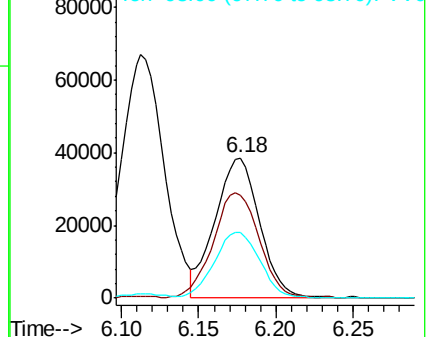
98 48.7 39.3 58.9

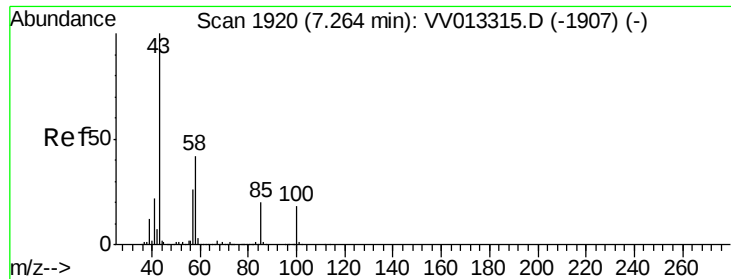


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

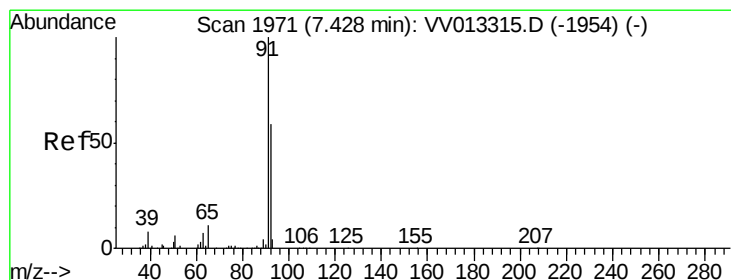
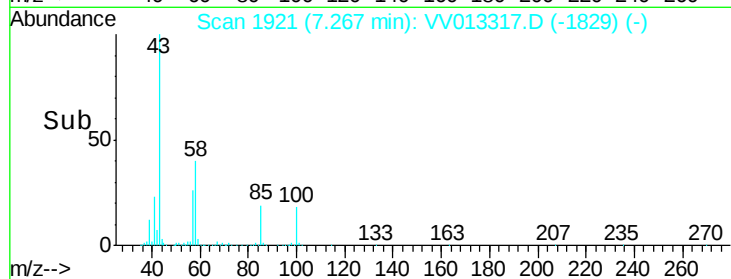
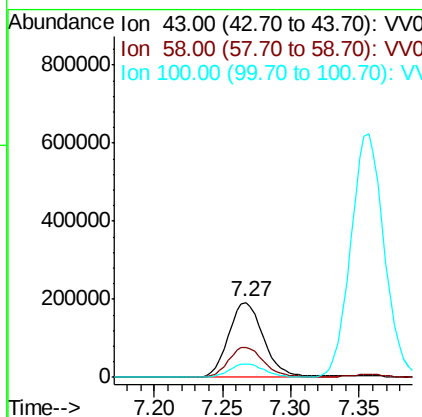
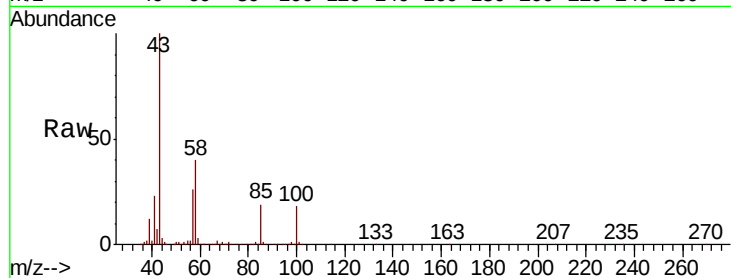




#40
4-Methyl-2-pentanone
Concen: 29.284 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

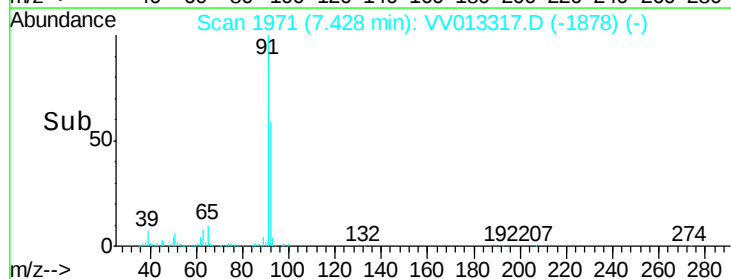
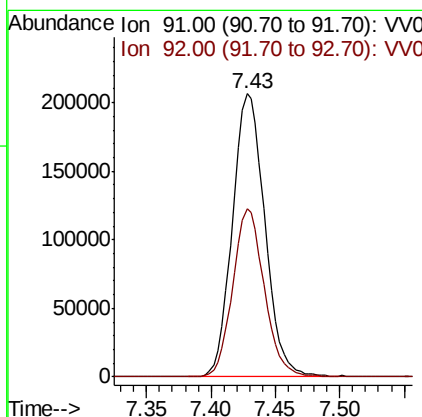
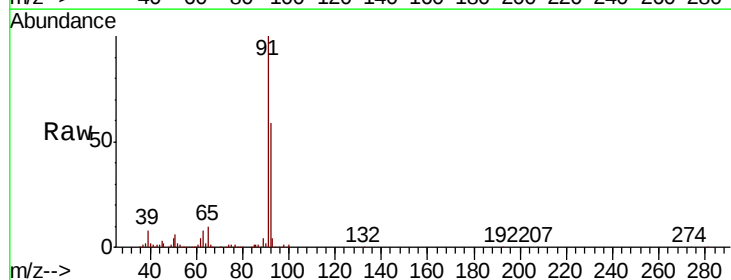
Instrument :
MSVOA_V
ClientSampleId :
X2J19

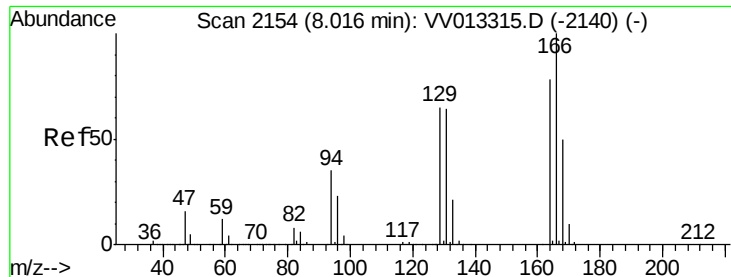
Tot Ion	Ratio	Lower	Upper
43	100		
58	40.4	33.0	49.4
100	18.1	13.8	20.6



#42
Toluene
Concen: 9.336 ug/L
RT: 7.43 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.5	41.4	77.0

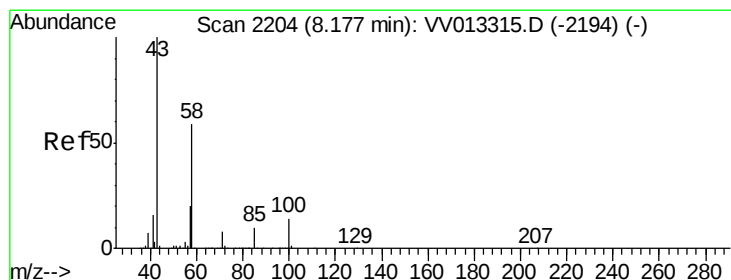
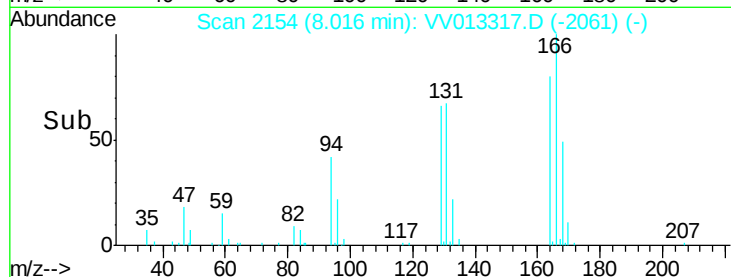
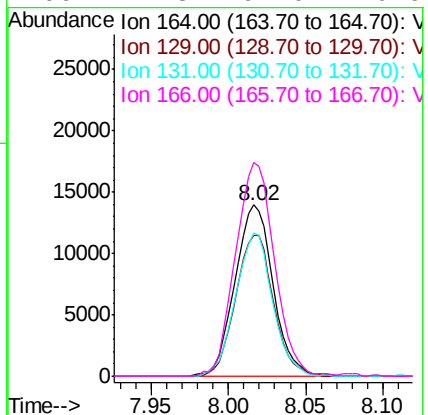
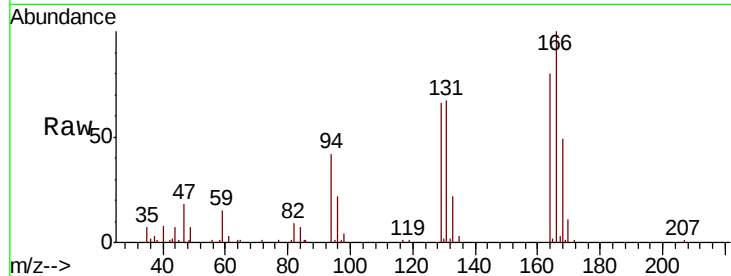




#46
Tetrachloroethene
Concen: 2.715 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

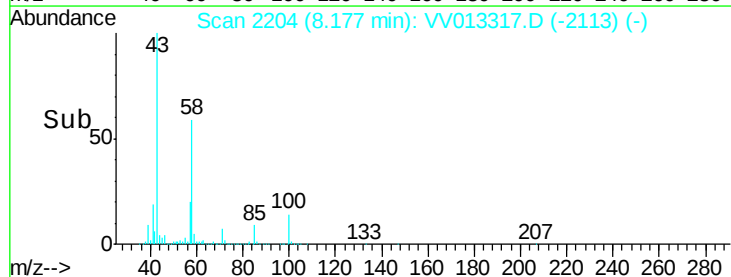
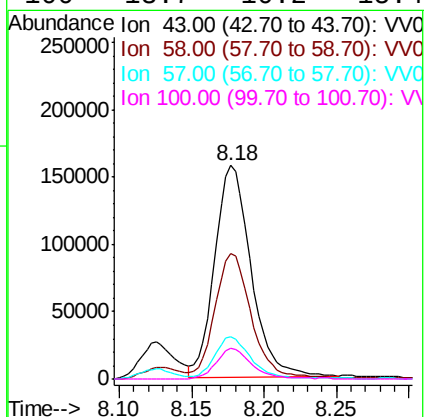
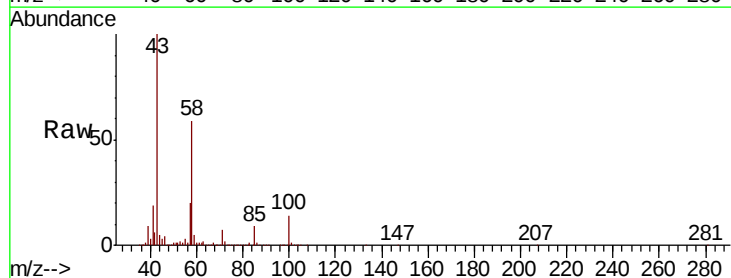
Instrument :
MSVOA_V
ClientSampled :
X2J19

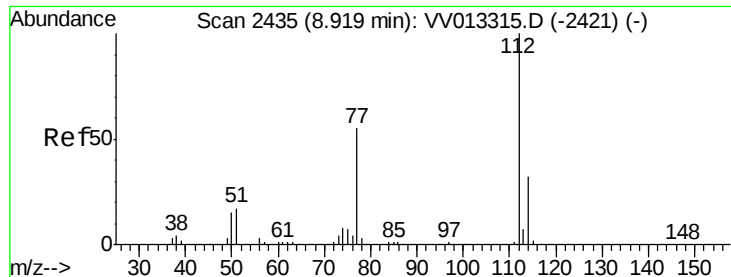
Tot Ion:164 Resp: 23931
Ion Ratio Lower Upper
164 100
129 82.2 59.7 110.9
131 83.9 59.2 110.0
166 124.8 92.0 170.9



#48
2-Hexanone
Concen: 28.458 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. -0.01 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

Tgt Ion: 43 Resp: 272941
Ion Ratio Lower Upper
43 100
58 57.6 47.0 70.6
57 19.0 13.8 20.8
100 13.7 10.2 15.4

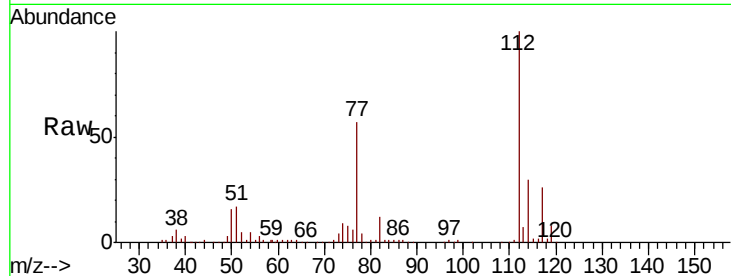




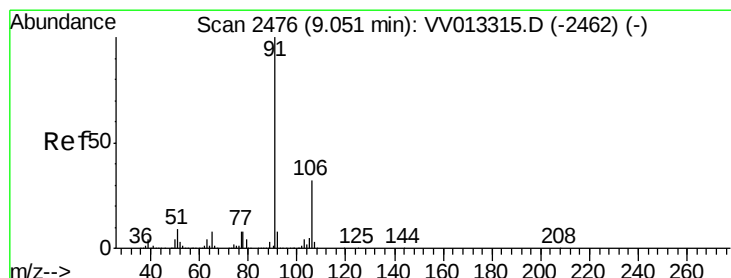
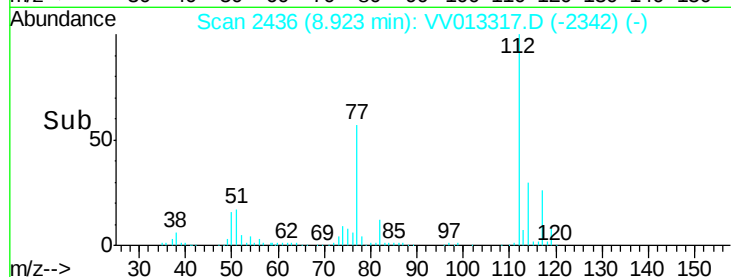
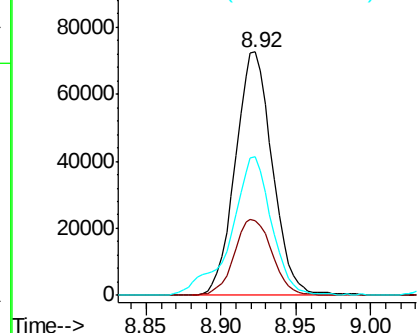
#51
Chlorobenzene
Concen: 4.753 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

Instrument :
MSVOA_V
ClientSampleId :
X2J19

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.5	22.7	42.3
77	56.7	42.5	63.7

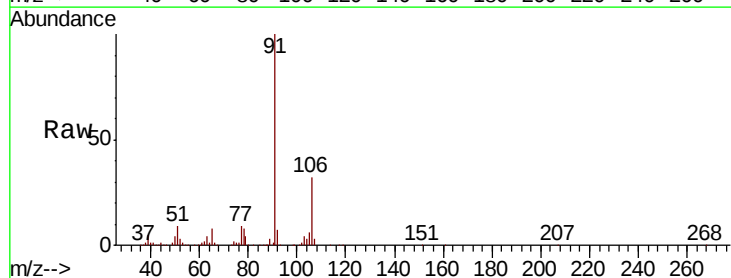


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

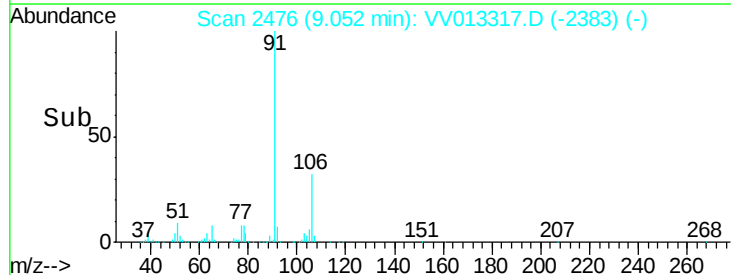
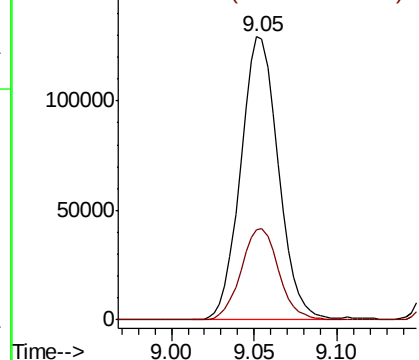


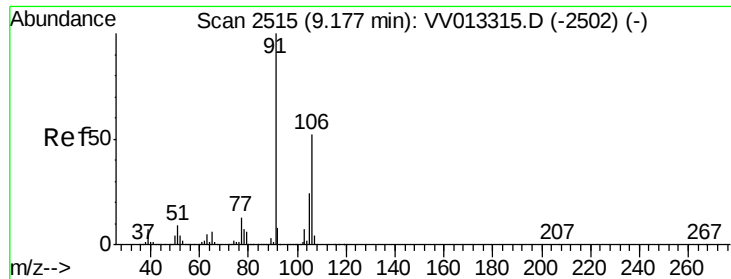
#52
Ethylbenzene
Concen: 5.018 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. 0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.8	22.0	40.8



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 106.00 (105.70 to 106.70): V

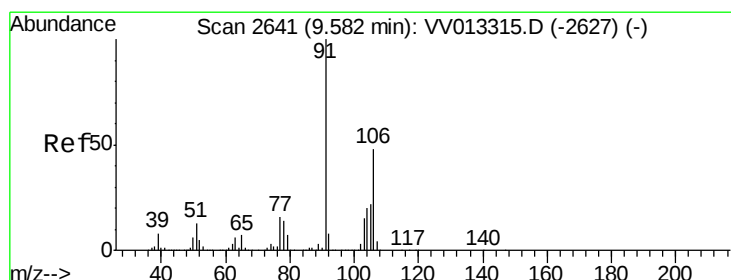
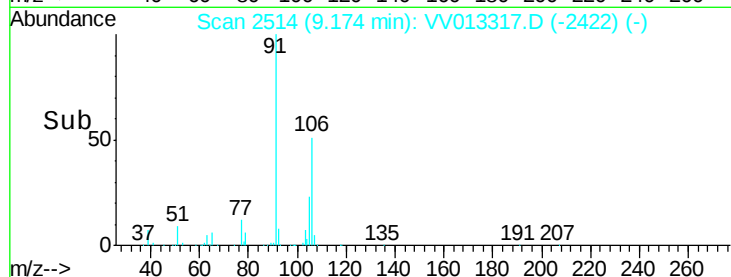
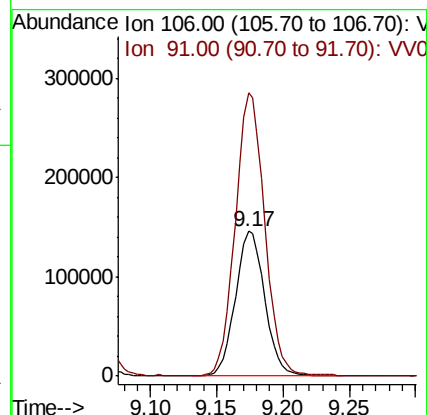
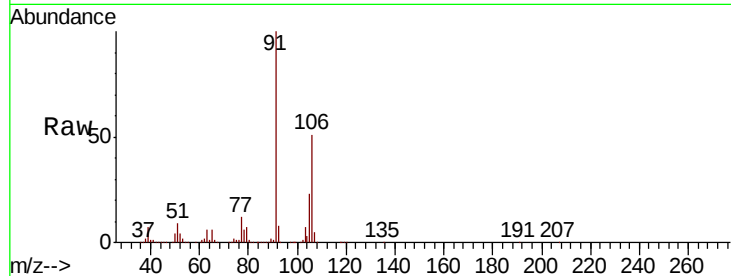




#53
m,p-Xylene
Concen: 14.123 ug/L
RT: 9.17 min Scan# 2514
Delta R.T. -0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

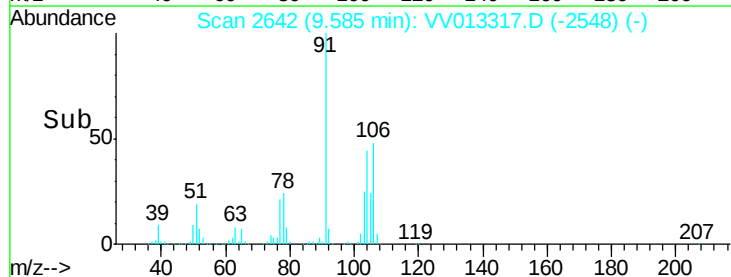
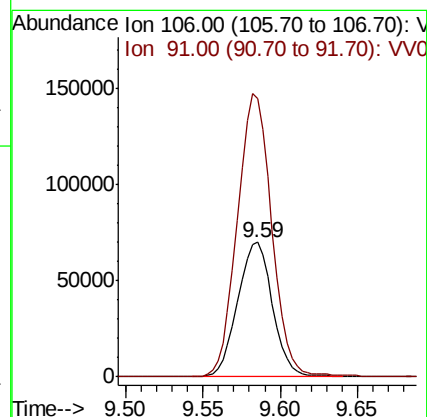
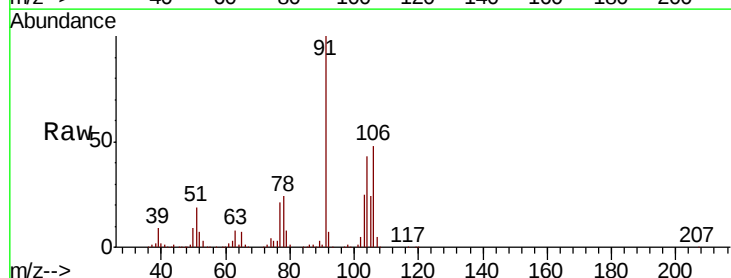
Instrument :
MSVOA_V
ClientSampleId :
X2J19

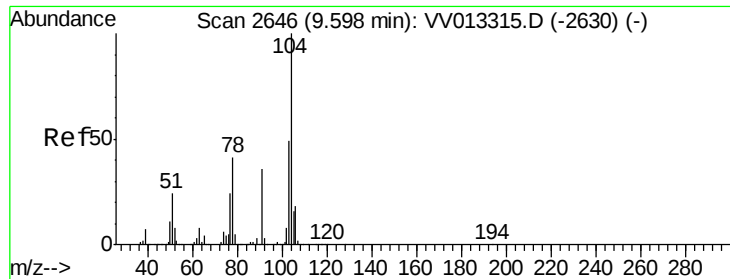
Tot Ion:106 Resp: 224246
Ion Ratio Lower Upper
106 100
91 195.4 137.7 255.7



#54
o-xylene
Concen: 7.105 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV013317.D
Acq: 24 Oct 2019 15:26

Tgt Ion:106 Resp: 110016
Ion Ratio Lower Upper
106 100
91 207.4 146.2 271.6





#55

Stvrene

Concen: 11.488 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

Instrument :

MSVOA_V

ClientSampleId :

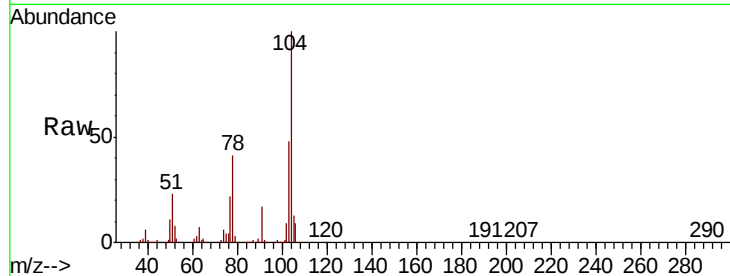
X2J19

Tot Ion:104 Resp: 301683

Ion Ratio Lower Upper

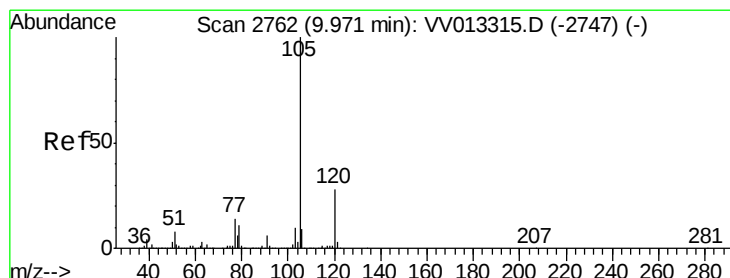
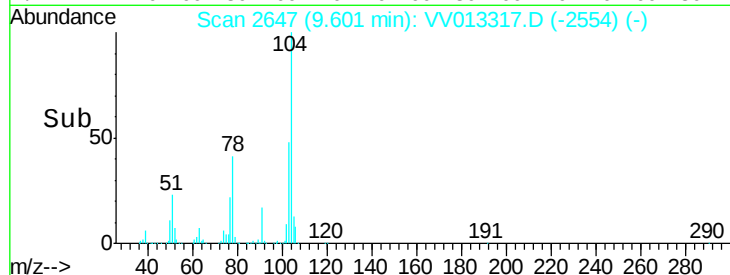
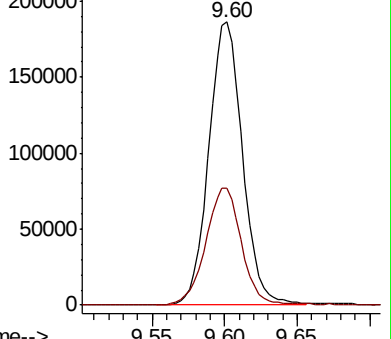
104 100

78 41.1 28.9 53.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 9.813 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

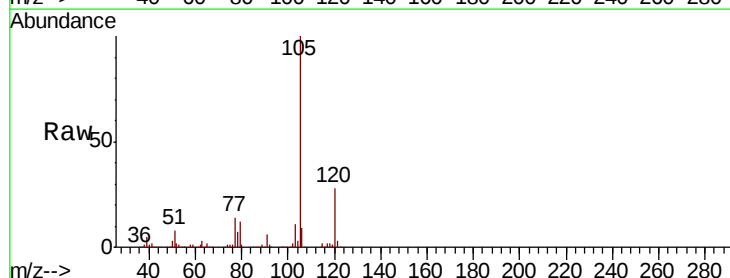
Tgt Ion:105 Resp: 388215

Ion Ratio Lower Upper

105 100

120 27.7 21.7 32.5

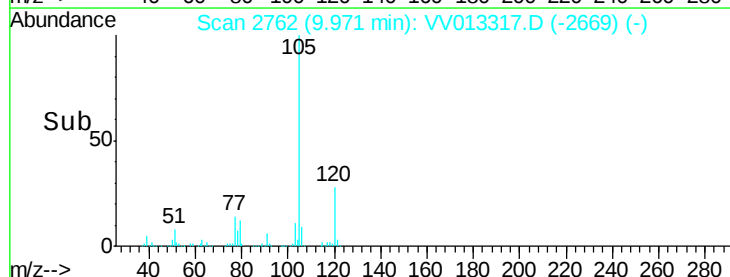
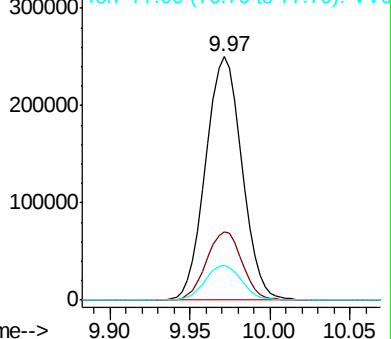
77 14.5 11.6 17.4

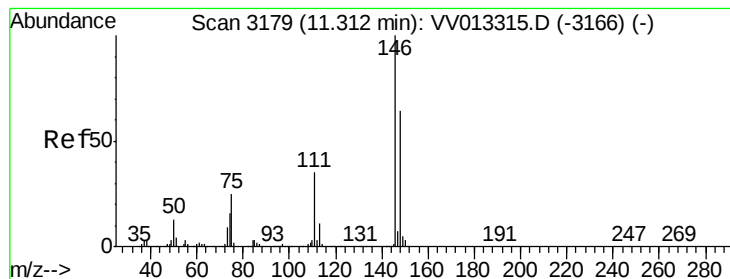


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#63

1,4-Dichlorobenzene

Concen: 4.659 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

Instrument :

MSVOA_V

ClientSampleId :

X2J19

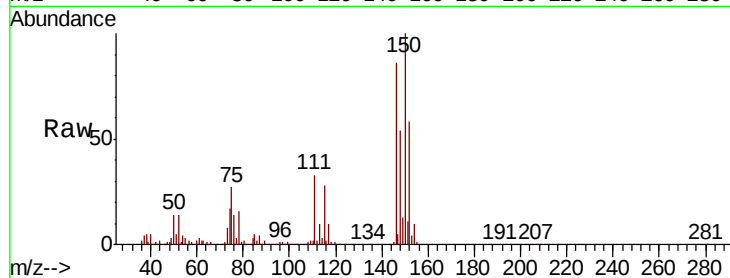
Tot Ion:146 Resp: 95568

Ion Ratio Lower Upper

146 100

111 37.8 24.5 45.5

148 62.9 45.0 83.6

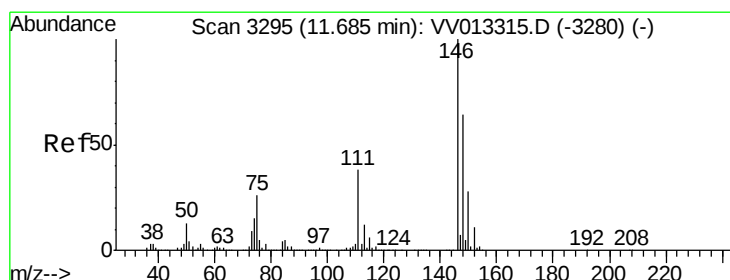
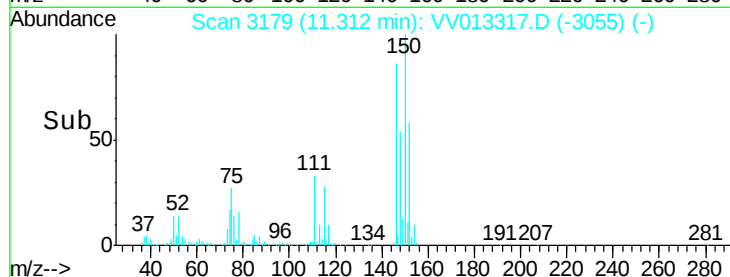
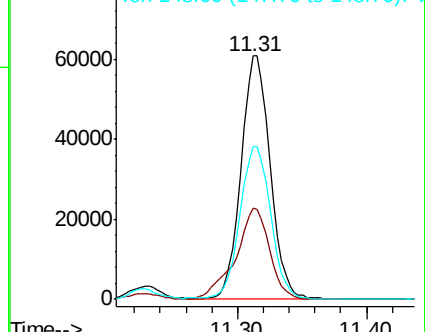


Abundance

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: 5.153 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

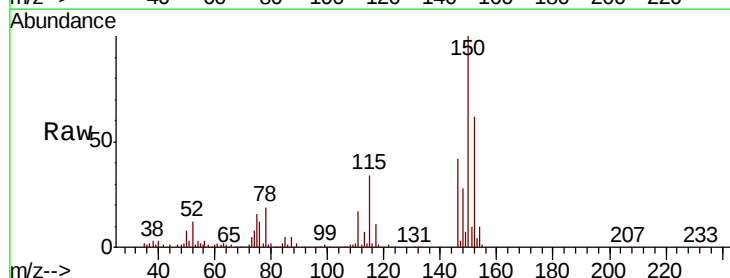
Tgt Ion:146 Resp: 104912

Ion Ratio Lower Upper

146 100

111 40.0 30.7 46.1

148 65.7 52.0 78.0

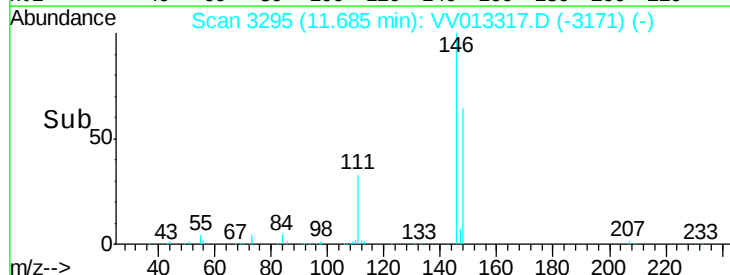
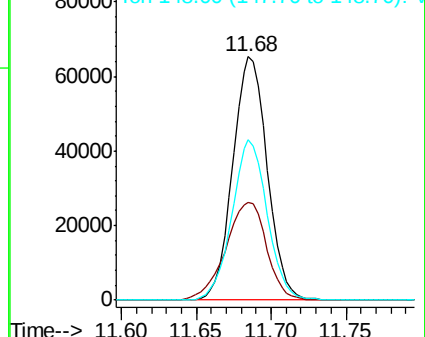


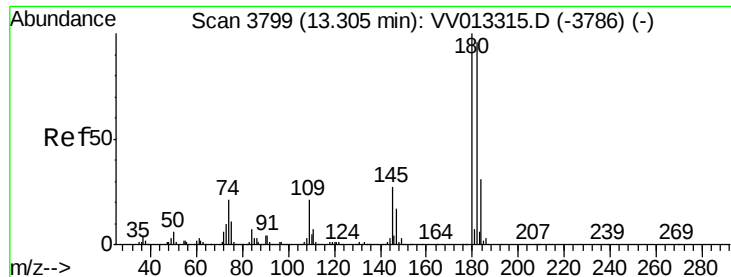
Abundance

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: 4.934 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

Instrument :

MSVOA_V

ClientSampleId :

X2J19

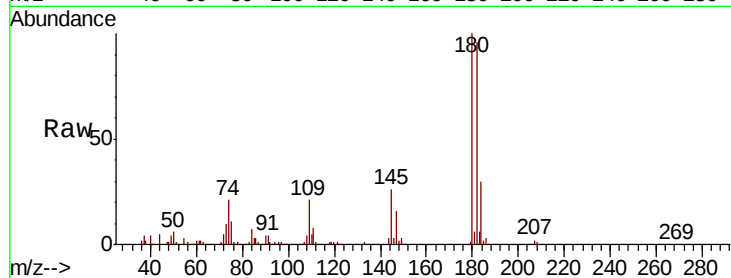
Tot Ion:180 Resp: 61589

Ion Ratio Lower Upper

180 100

182 98.0 77.3 115.9

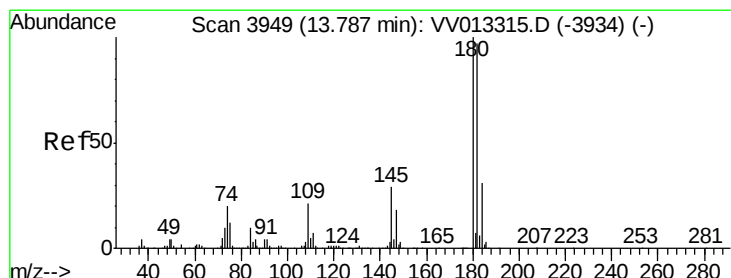
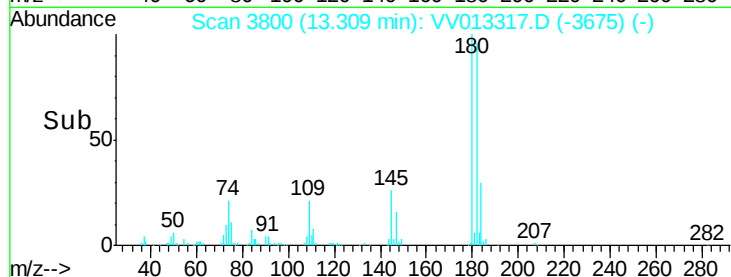
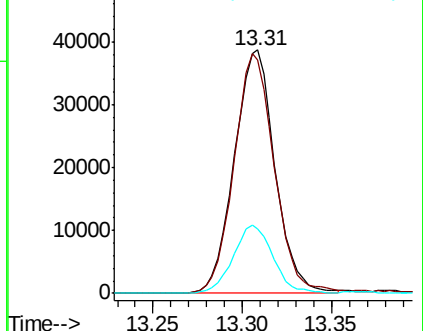
145 27.3 21.7 32.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#70

1,2,3-Trichlorobenzene

Concen: 14.582 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013317.D

Acq: 24 Oct 2019 15:26

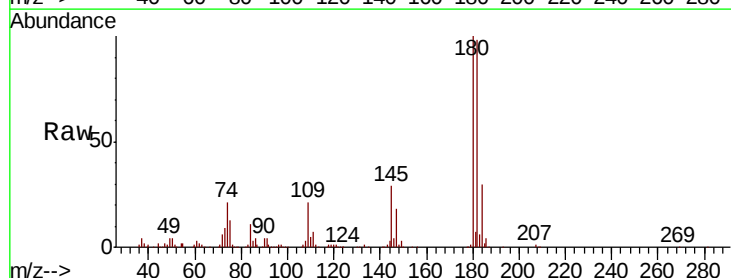
Tgt Ion:180 Resp: 195008

Ion Ratio Lower Upper

180 100

182 95.2 77.0 115.6

145 27.8 23.4 35.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

