

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112719\
 Data File : VV013829.D
 Acq On : 27 Nov 2019 18:16
 Operator : SY/MD
 Sample : K6003-08DL 20X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 28 03:10:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 28 02:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	343959	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	343238	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	162947	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	72676	3.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.20%
7) Chloroethane-d5	1.58	69	74389	4.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.20%
11) 1,1-Dichloroethene-d2	2.13	63	113096	3.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.20%
20) 2-Butanone-d5	3.95	46	274955	62.13	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	124.26%
24) Chloroform-d	4.40	84	191272	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	5.08	65	101524	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
32) Benzene-d6	5.10	84	354761	4.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.20%
36) 1,2-Dichloropropane-d6	6.11	67	116190	4.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.00%
41) Toluene-d8	7.36	98	285269	3.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.60%#
43) trans-1,3-Dichloropropene-	7.66	79	39162	3.81	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.20%
46) 2-Hexanone-d5	8.13	63	201120	53.08	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.16%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	97372	5.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	135806	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.23	50	7085	0.352	ug/L #	53
8) Chloroethane	1.78	64	3342	0.270	ug/L #	51
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1622	0.086	ug/L #	37
12) 1,1-Dichloroethene	2.14	96	19252	1.164	ug/L #	51
13) Acetone	2.22	43	10516	3.398	ug/L	81
14) Carbon disulfide	2.32	76	10328	0.271	ug/L #	86
16) Methylene chloride	2.53	84	5402	0.238	ug/L	93
19) 1,1-Dichloroethane	3.23	63	25764	0.691	ug/L	93
21) 2-Butanone	4.05	43	4463	0.954	ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	5872	0.268	ug/L	93
27) 1,2-Dichloroethane	5.09	62	2229	0.099	ug/L	100
34) Trichloroethene	5.95	95	162997	7.018	ug/L	98
35) Methylcyclohexane	6.11	83	28604	0.923	ug/L #	20
48) 2-Hexanone	8.19	43	11447	1.270	ug/L #	97
63) 1,4-Dichlorobenzene	11.31	146	3229	0.067	ug/L #	86
67) 1,3,5-Trichlorobenzene	12.69	180	3007	0.075	ug/L	96
68) 1,2,4-trichlorobenzene	13.31	180	3149	0.096	ug/L #	93

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 28 02:51:59 2019
Response via : Initial Calibration

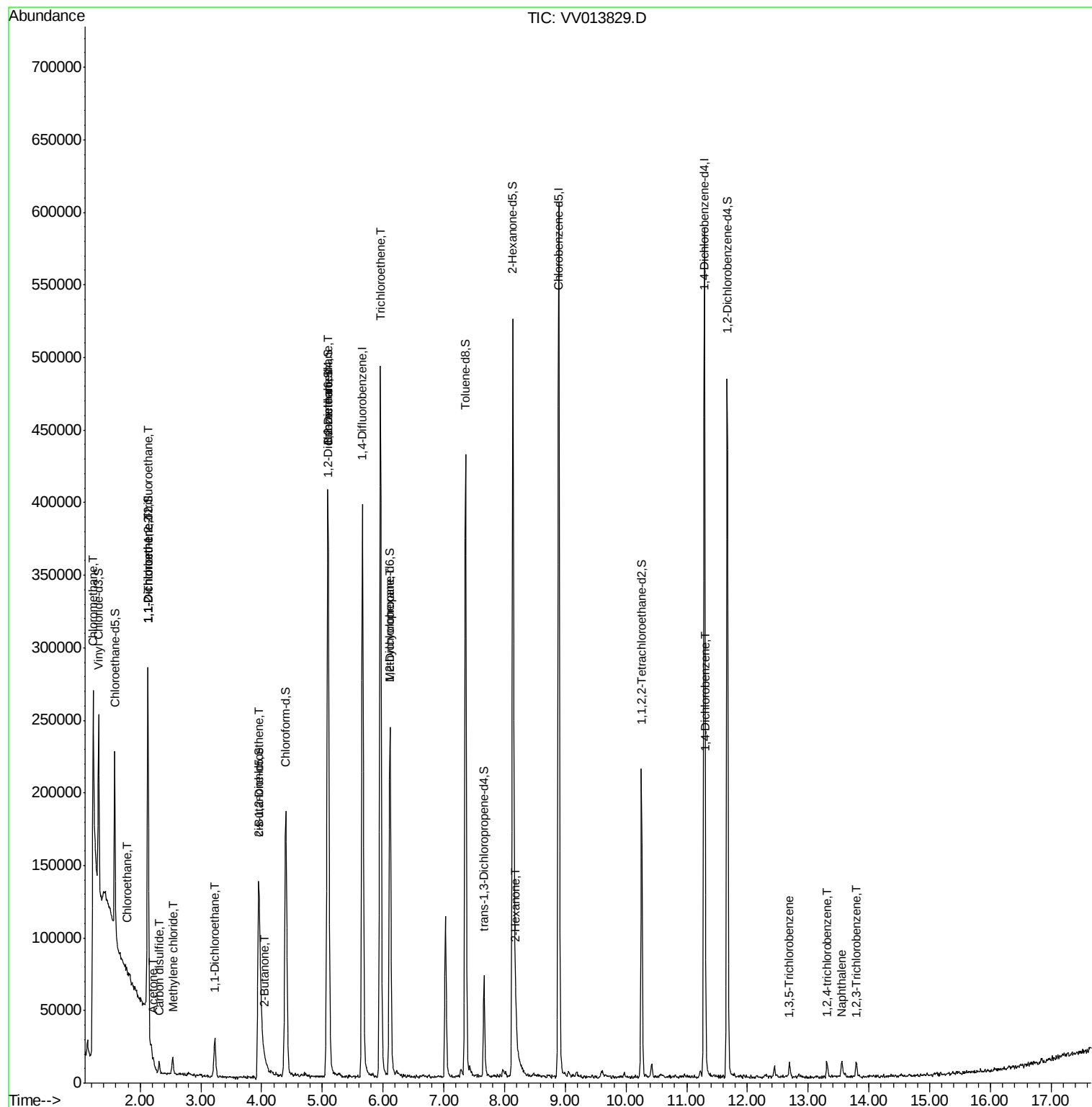
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	13.55	128	9828	0.220	ug/L	97
70) 1,2,3-Trichlorobenzene	13.79	180	3440	0.115	ug/L	94

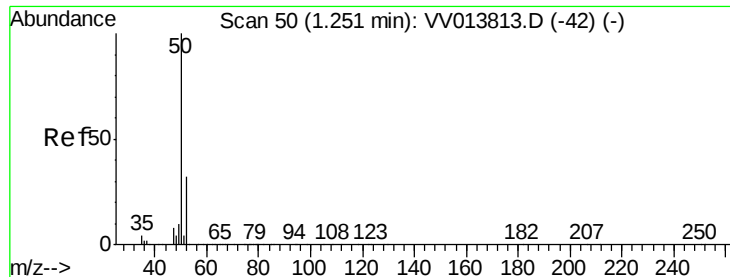
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 28 02:51:59 2019
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.352 ug/L

RT: 1.23 min Scan# 42

Delta R.T. -0.03 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

Instrument :

MSVOA_V

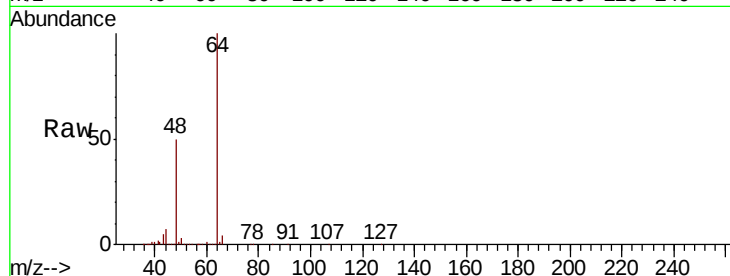
ClientSampleId :

Tot Ion: 50 Resp: 7085

Ion Ratio Lower Upper

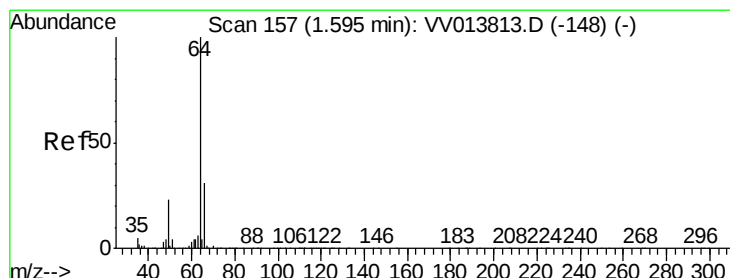
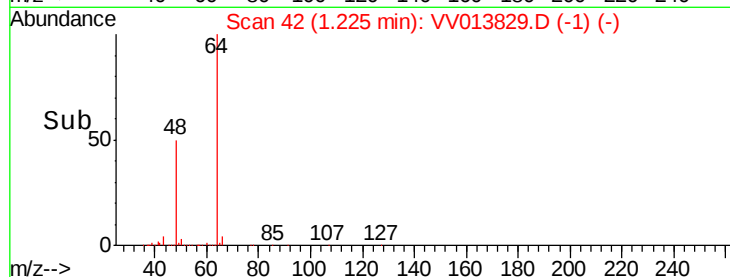
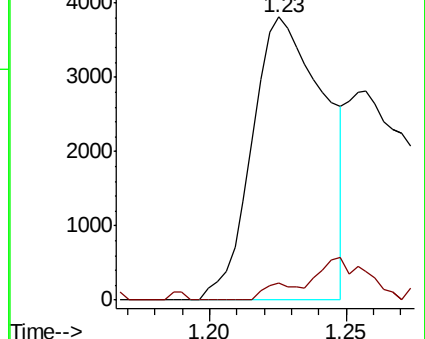
50 100

52 6.0 22.5 41.7#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#8

Chloroethane

Concen: 0.270 ug/L

RT: 1.78 min Scan# 215

Delta R.T. 0.19 min

Lab File: VV013829.D

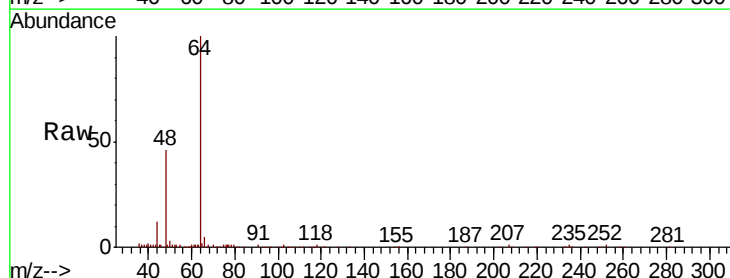
Acq: 27 Nov 2019 18:16

Tgt Ion: 64 Resp: 3342

Ion Ratio Lower Upper

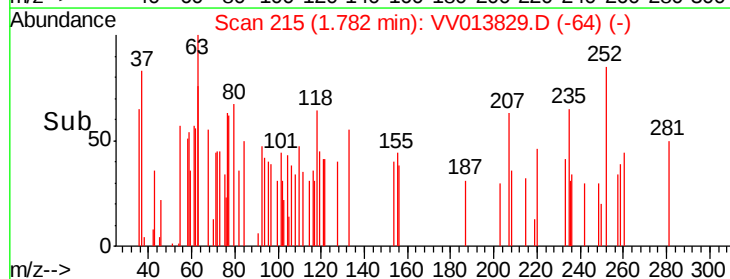
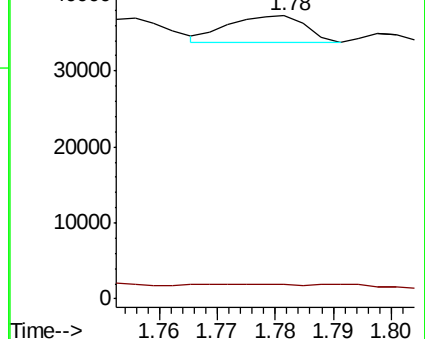
64 100

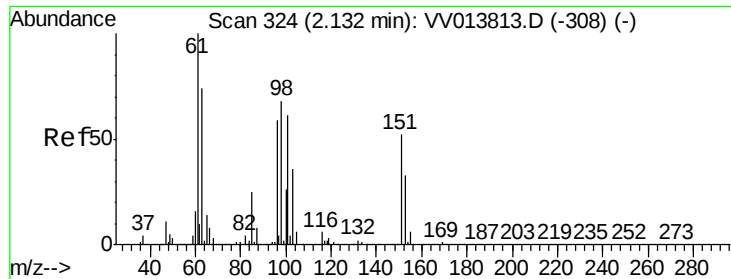
66 4.9 22.6 42.0#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#10

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

Concen: 0.086 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

Instrument :

MSVOA_V

ClientSampled :

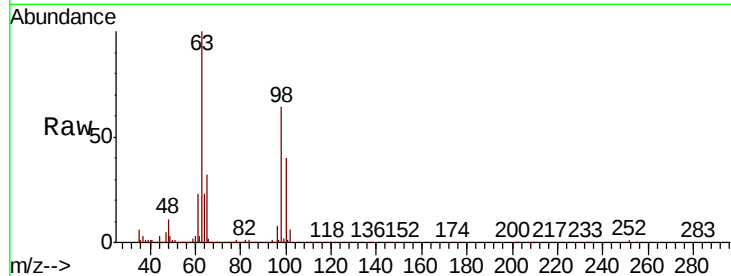
Tot Ion:101 Resp: 1622

Ion Ratio Lower Upper

101 100

85 7.0 33.4 50.0#

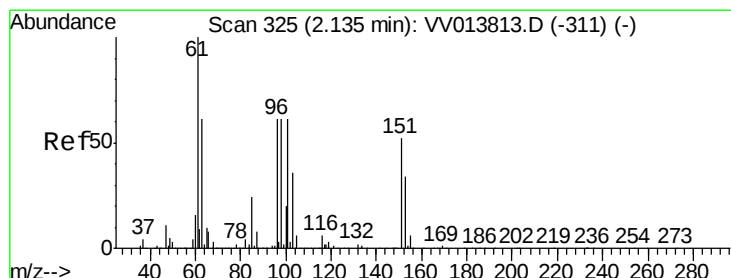
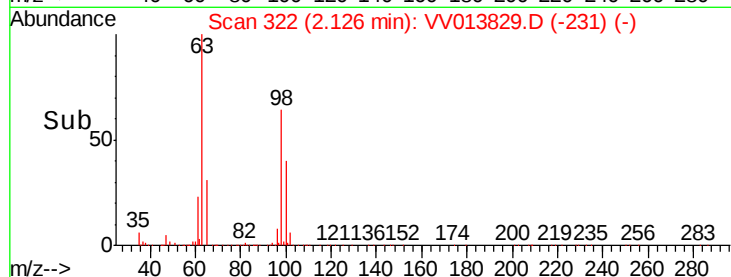
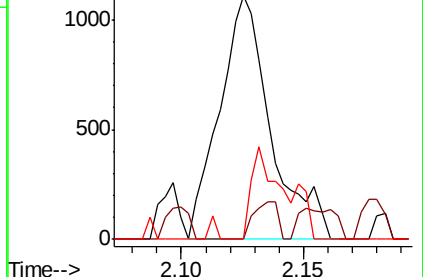
151 24.8 69.4 104.0#



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



#12

1,1-Dichloroethene

Concen: 1.164 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

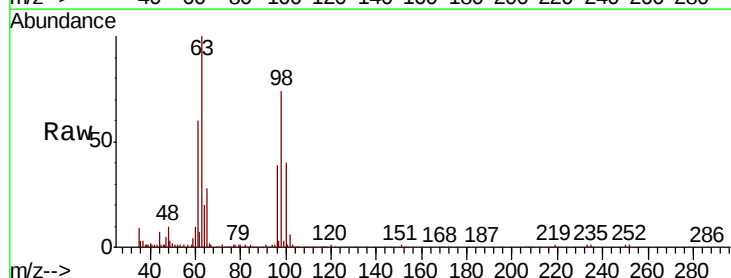
Tgt Ion: 96 Resp: 19252

Ion Ratio Lower Upper

96 100

61 154.9 116.3 215.9

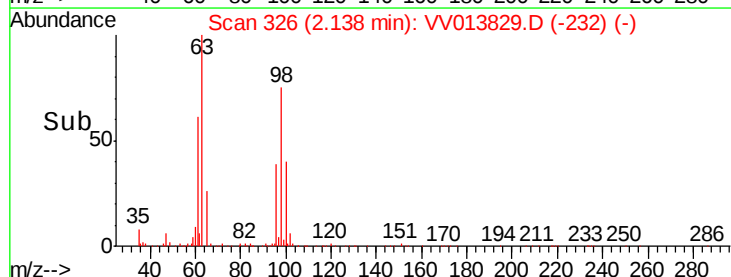
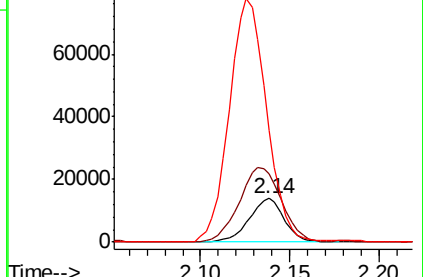
63 256.2 96.7 179.7#

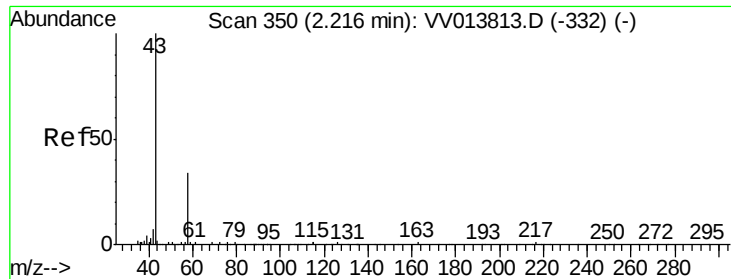


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 3.398 ug/L

RT: 2.22 min Scan# 350

Delta R.T. 0.00 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

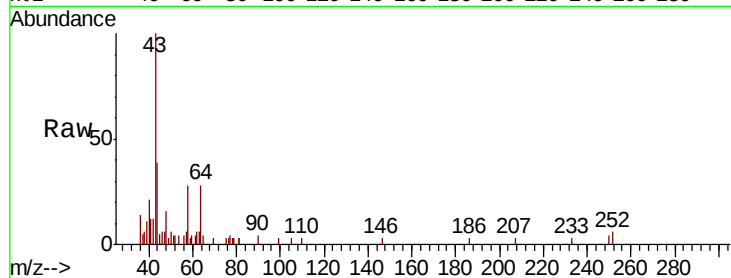
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 10516

Ion Ratio Lower Upper

43 100

58 21.1 0.0 27.2



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.22

4000

3000

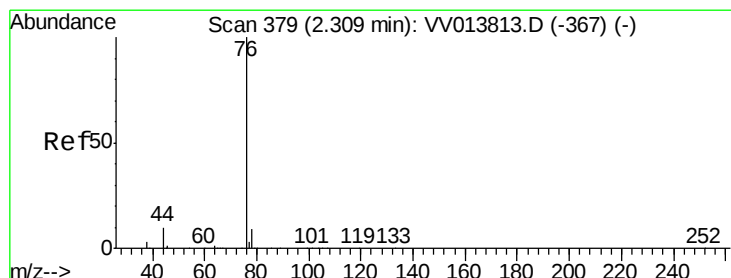
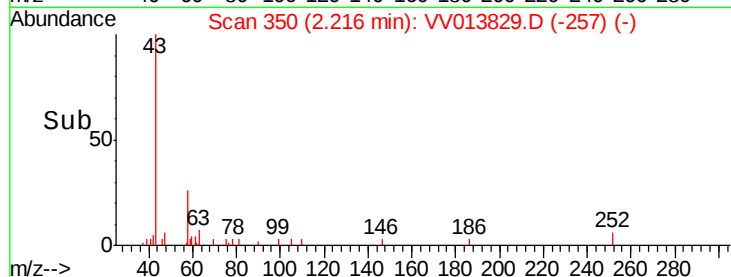
2000

1000

0

Time-->

2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 0.271 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV013829.D

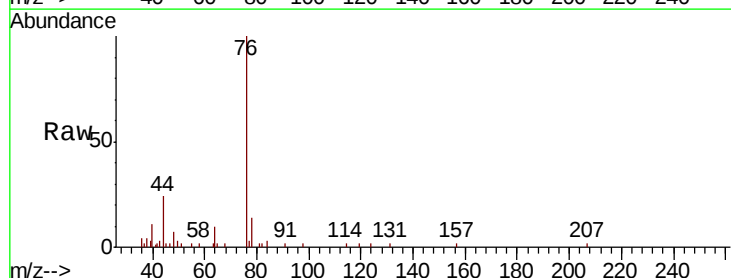
Acq: 27 Nov 2019 18:16

Tgt Ion: 76 Resp: 10328

Ion Ratio Lower Upper

76 100

78 14.4 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

8000

6000

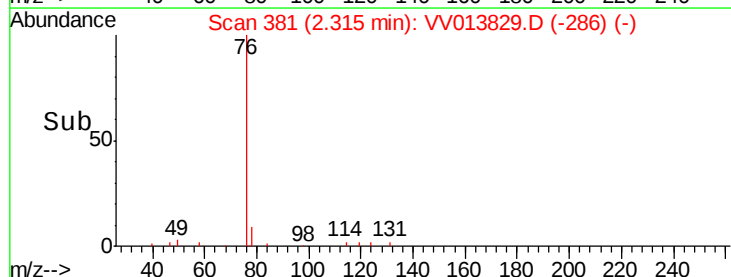
4000

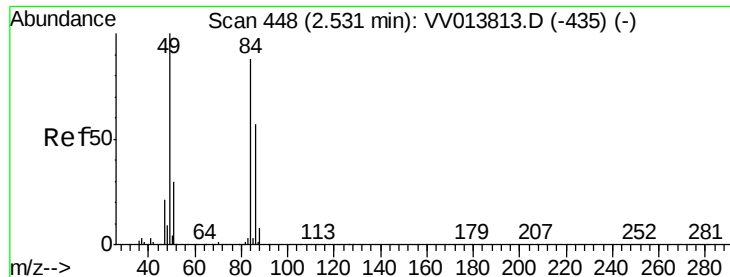
2000

0

Time-->

2.25 2.30 2.35

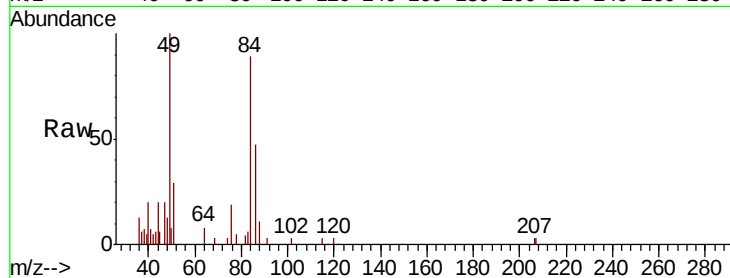




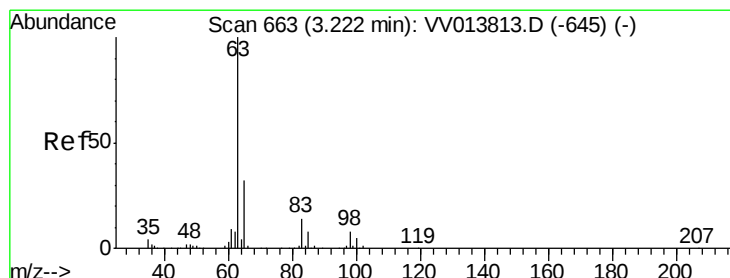
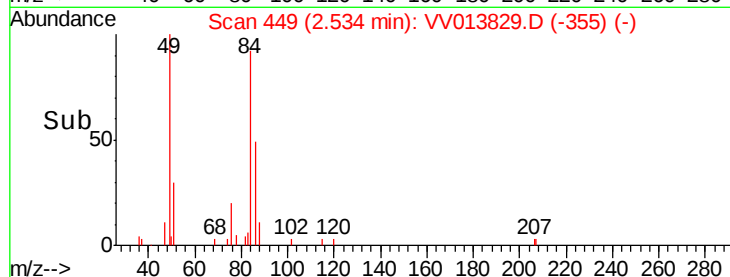
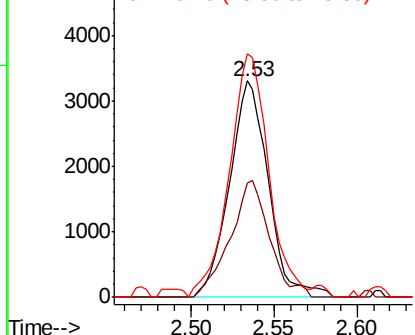
#16
Methvlene chloride
Concen: 0.238 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV013829.D
Acq: 27 Nov 2019 18:16

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 84 Resp: 5402
Ion Ratio Lower Upper
84 100
86 53.0 44.0 81.6
49 112.5 81.5 151.5

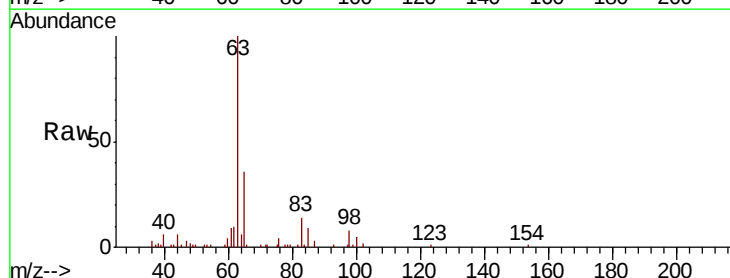


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

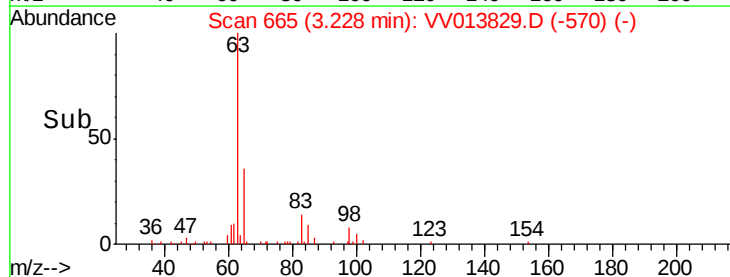
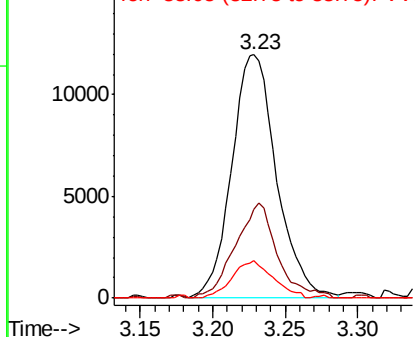


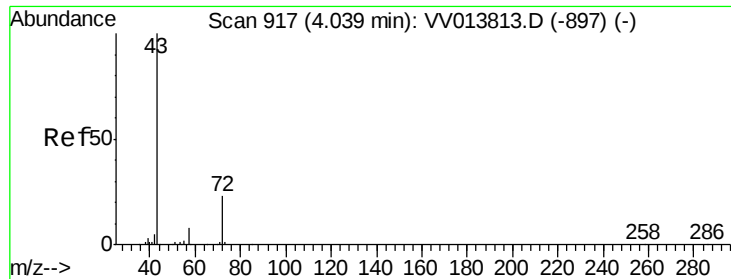
#19
1,1-Dichloroethane
Concen: 0.691 ug/L
RT: 3.23 min Scan# 665
Delta R.T. 0.01 min
Lab File: VV013829.D
Acq: 27 Nov 2019 18:16

Tgt Ion: 63 Resp: 25764
Ion Ratio Lower Upper
63 100
65 36.4 22.7 42.1
83 15.5 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0





#21

2-Butanone

Concen: 0.954 ug/L

RT: 4.05 min Scan# 920

Delta R.T. 0.01 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

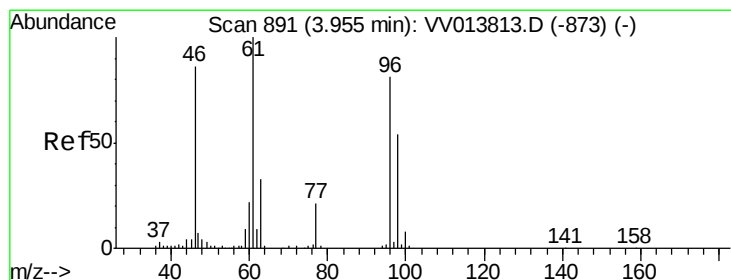
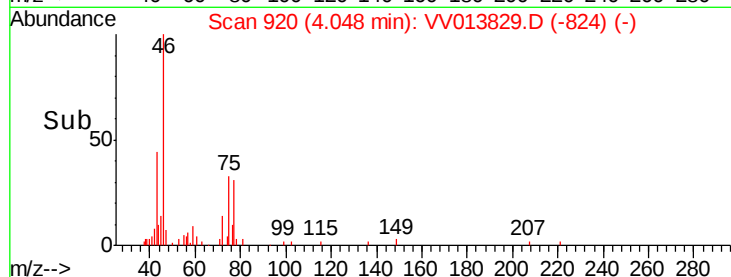
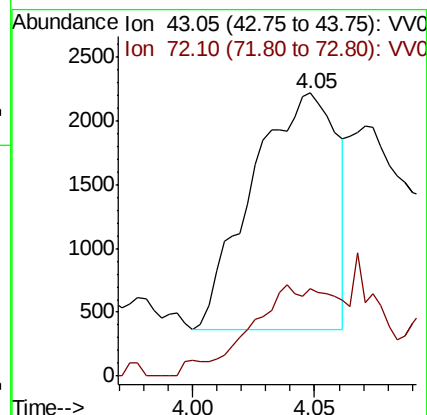
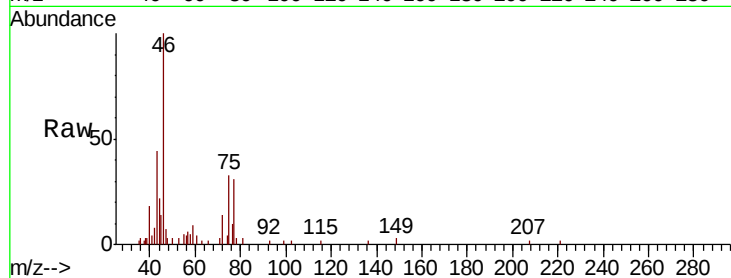
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 4463

Ion Ratio Lower Upper

43 100

72 24.8 12.3 36.9



#22

cis-1,2-Dichloroethene

Concen: 0.268 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.01 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

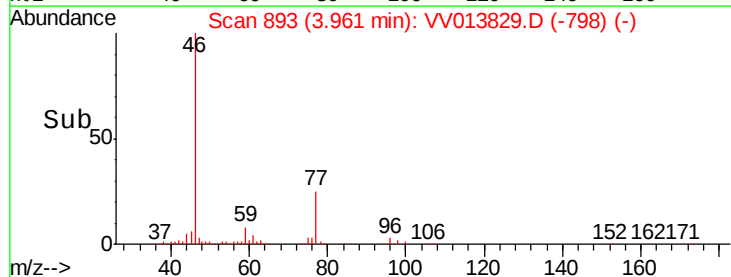
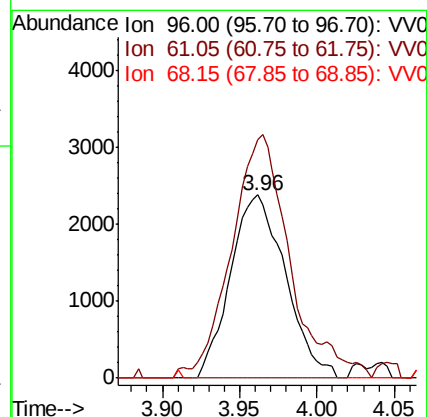
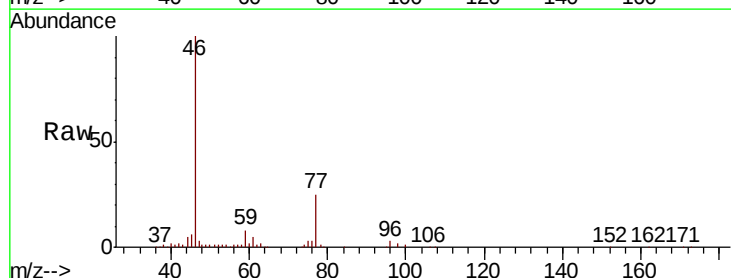
Tgt Ion: 96 Resp: 5872

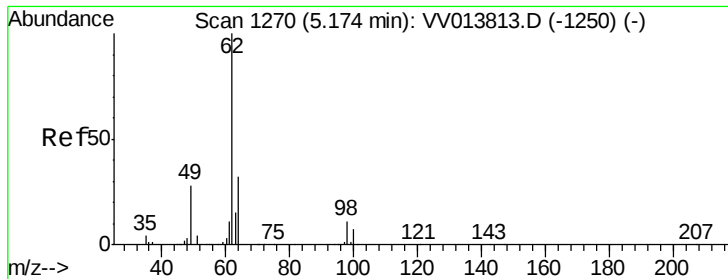
Ion Ratio Lower Upper

96 100

61 130.6 86.1 159.9

68 0.0 0.0 0.0

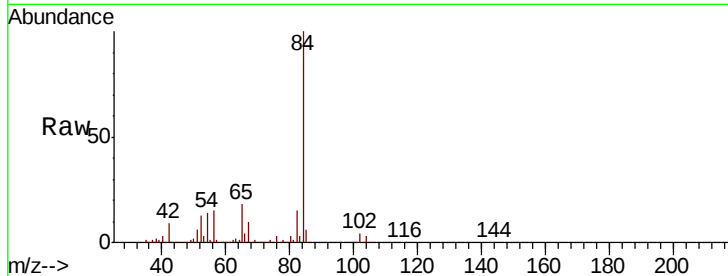




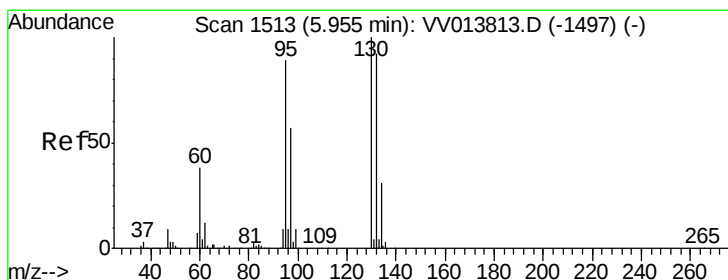
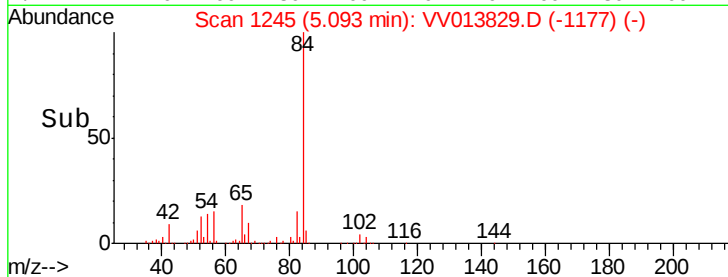
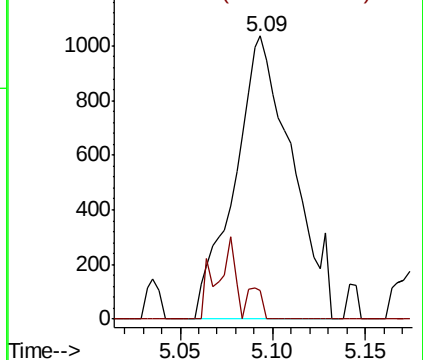
#27
1,2-Dichloroethane
Concen: 0.099 ug/L
RT: 5.09 min Scan# 1245
Delta R.T. -0.08 min
Lab File: VV013829.D
Acq: 27 Nov 2019 18:16

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 2229
Ion Ratio Lower Upper
62 100
98 10.3 8.2 12.2

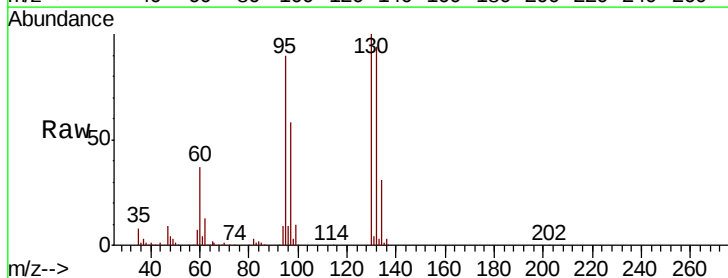


Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.05 (97.75 to 98.75): VV0

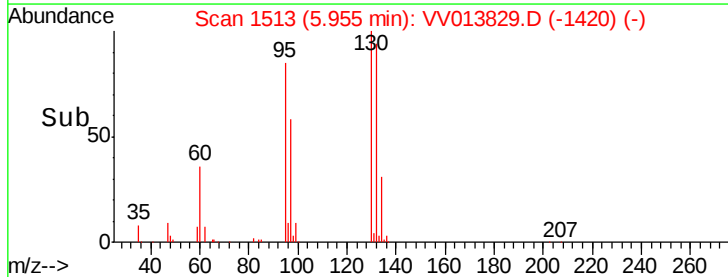
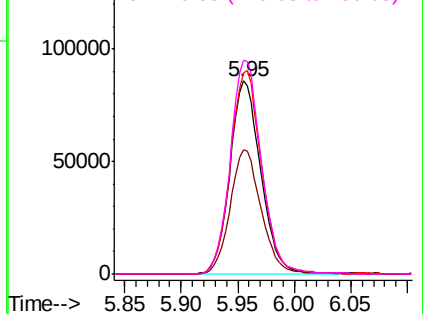


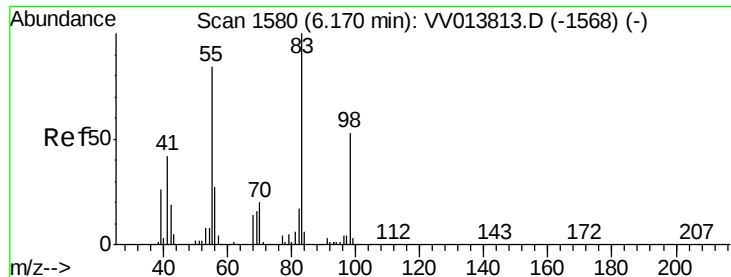
#34
Trichloroethene
Concen: 7.018 ug/L
RT: 5.95 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VV013829.D
Acq: 27 Nov 2019 18:16

Tgt Ion: 95 Resp: 162997
Ion Ratio Lower Upper
95 100
97 64.6 45.6 84.8
132 104.0 70.5 130.9
130 110.6 75.9 140.9



Abundance Ion 95.00 (94.70 to 95.70): VV0
Ion 96.95 (96.65 to 97.65): VV0
Ion 131.95 (131.65 to 132.65): VV0
Ion 129.95 (129.65 to 130.65): VV0

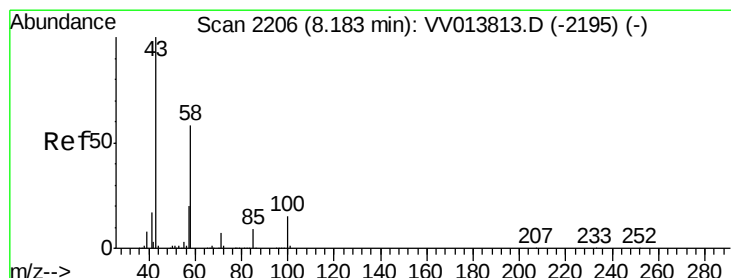
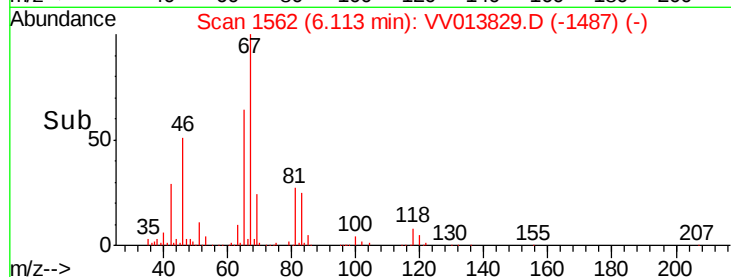
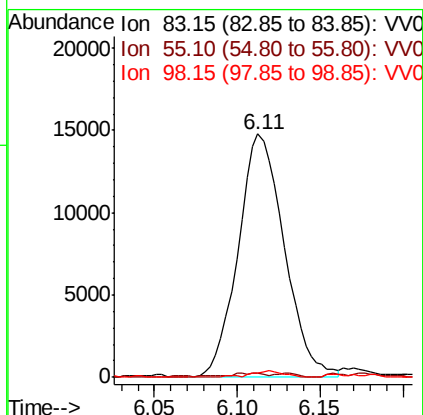
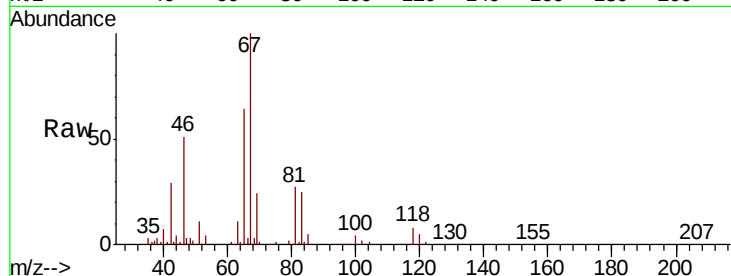




#35
Methylcyclohexane
Concen: 0.923 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.06 min
Lab File: VV013829.D
Acq: 27 Nov 2019 18:16

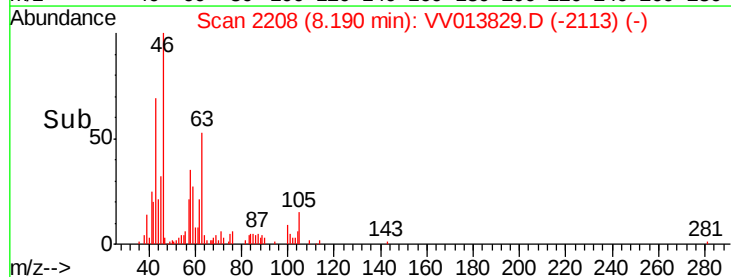
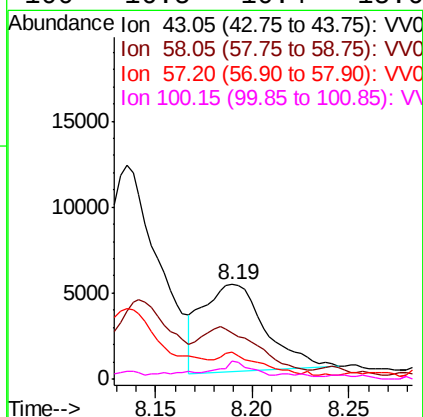
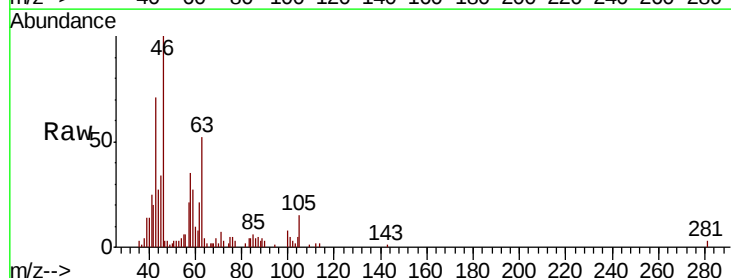
Instrument :
MSVOA_V
ClientSampleId :

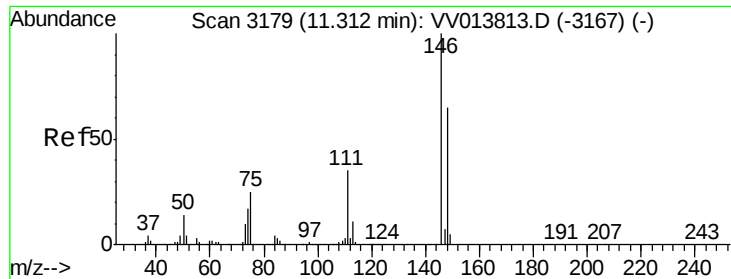
Tot Ion: 83 Resp: 28604
Ion Ratio Lower Upper
83 100
55 1.2 60.3 90.5#
98 1.7 38.1 57.1#



#48
2-Hexanone
Concen: 1.270 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.01 min
Lab File: VV013829.D
Acq: 27 Nov 2019 18:16

Tgt Ion: 43 Resp: 11447
Ion Ratio Lower Upper
43 100
58 52.8 43.2 64.8
57 18.3 15.4 23.2
100 16.5 10.4 15.6#





#63

1,4-Dichlorobenzene

Concen: 0.067 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

Instrument :

MSVOA_V

ClientSampleId :

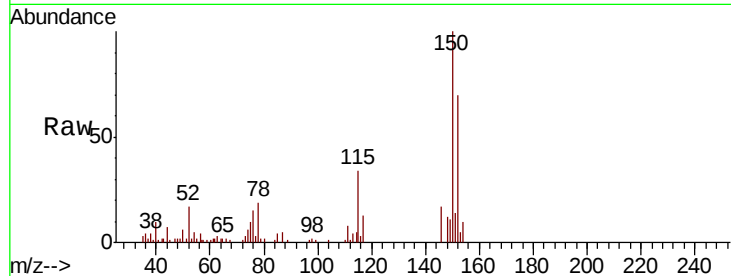
Tot Ion:146 Resp: 3229

Ion Ratio Lower Upper

146 100

111 48.9 25.0 46.4#

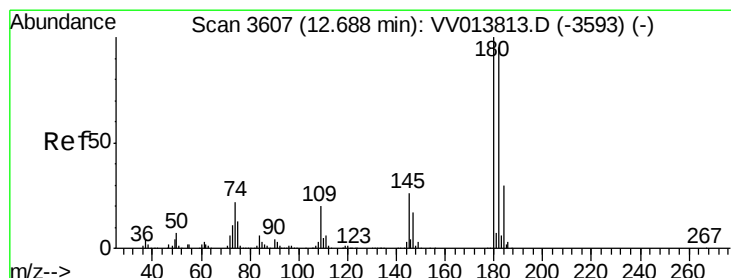
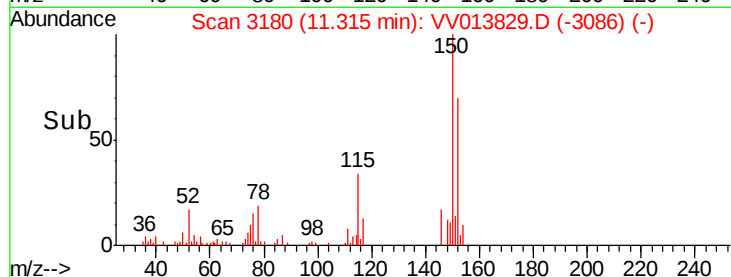
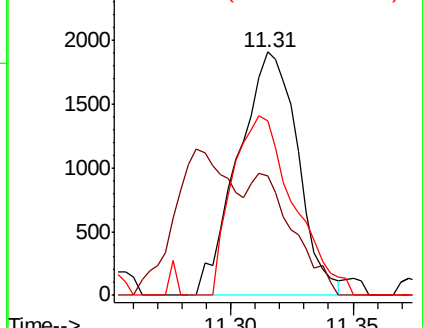
148 71.8 45.4 84.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.075 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

Tgt Ion:180 Resp: 3007

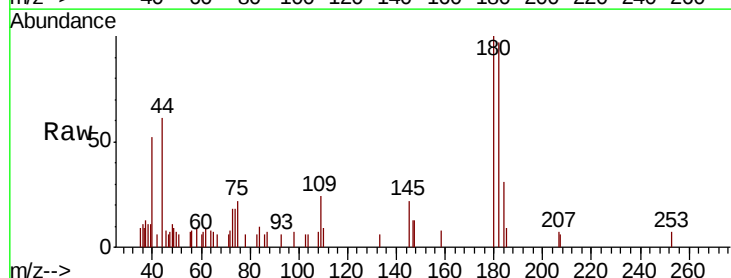
Ion Ratio Lower Upper

180 100

182 91.7 74.8 112.2

184 31.2 23.2 34.8

145 22.0 21.3 31.9

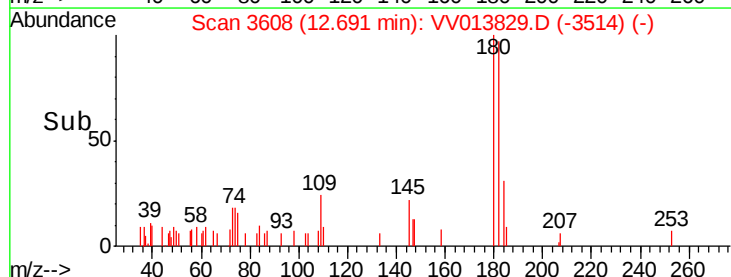
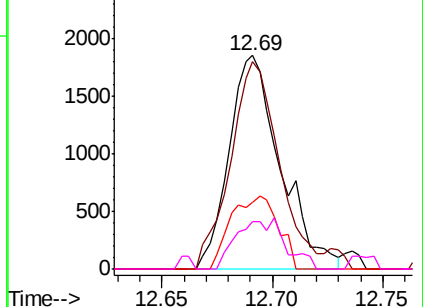


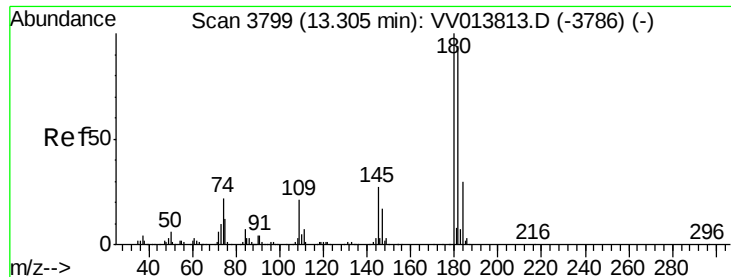
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

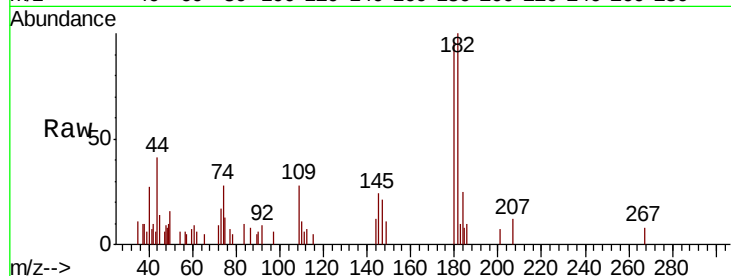




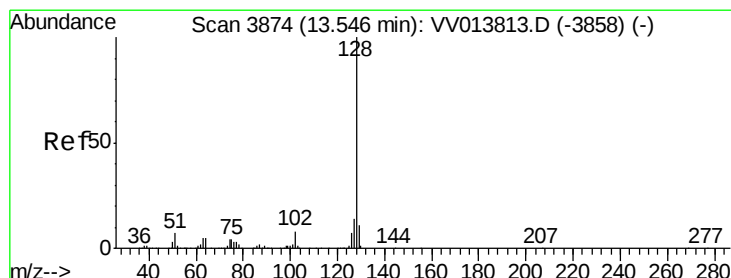
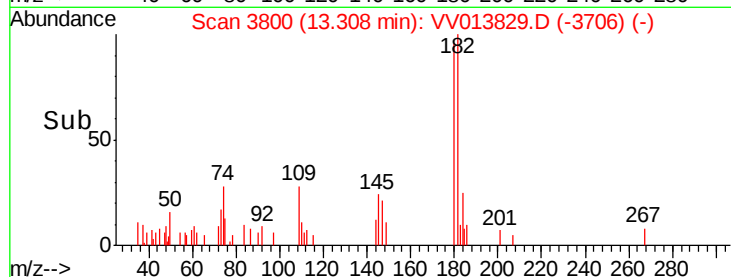
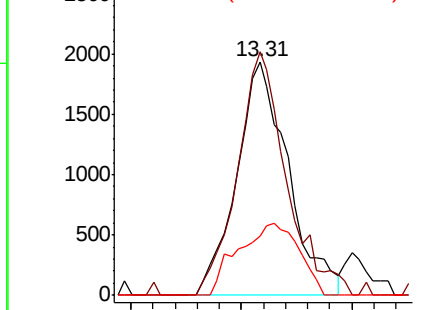
#68
 1,2,4-trichlorobenzene
 Concen: 0.096 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013829.D
 Acq: 27 Nov 2019 18:16

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:180 Resp: 3149
 Ion Ratio Lower Upper
 180 100
 182 99.4 76.2 114.4
 145 35.9 21.0 31.6#

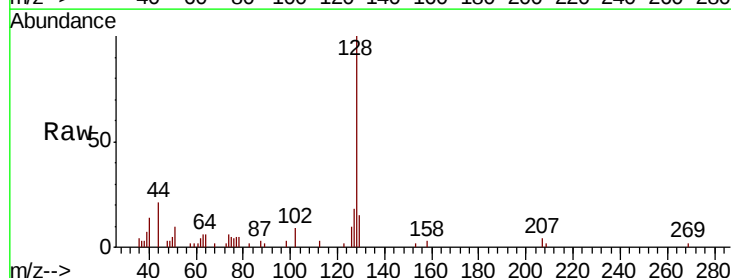


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

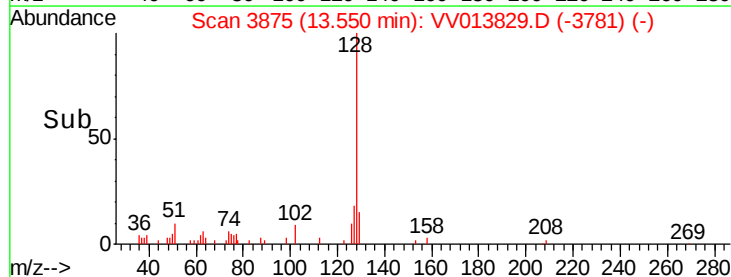
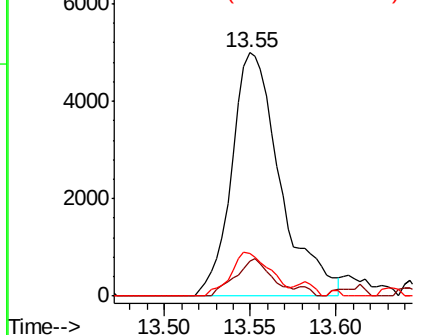


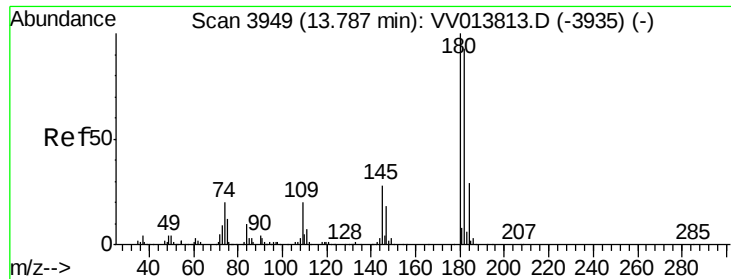
#69
 Naphthalene
 Concen: 0.220 ug/L
 RT: 13.55 min Scan# 3875
 Delta R.T. 0.00 min
 Lab File: VV013829.D
 Acq: 27 Nov 2019 18:16

Tgt Ion:128 Resp: 9828
 Ion Ratio Lower Upper
 128 100
 129 11.6 8.6 12.8
 127 14.5 10.6 16.0



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





#70

1,2,3-Trichlorobenzene

Concen: 0.115 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV013829.D

Acq: 27 Nov 2019 18:16

Instrument :

MSVOA_V

ClientSampleId :

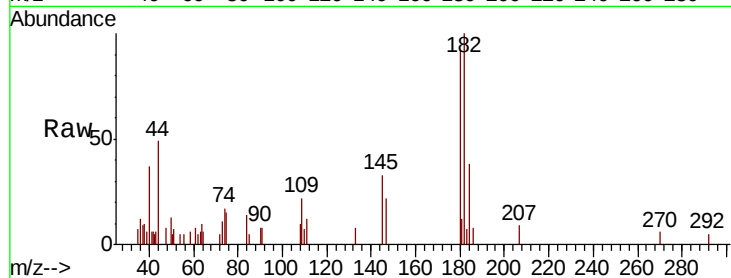
Tot Ion:180 Resp: 3440

Ion Ratio Lower Upper

180 100

182 104.9 78.5 117.7

145 30.7 23.8 35.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

