

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112719\
 Data File : VV013827.D
 Acq On : 27 Nov 2019 17:06
 Operator : SY/MD
 Sample : K6056-06DL 20X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 28 02:57:48 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	324608	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	320075	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	145895	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	72326	3.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.00%
7) Chloroethane-d5	1.58	69	74387	4.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.20%
11) 1,1-Dichloroethene-d2	2.13	63	147868	4.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.40%
20) 2-Butanone-d5	3.92	46	255629	61.20	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.40%
24) Chloroform-d	4.40	84	185793	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.08	65	98104	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
32) Benzene-d6	5.10	84	342111	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.80%
36) 1,2-Dichloropropane-d6	6.11	67	108919	4.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.60%
41) Toluene-d8	7.36	98	267950	3.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.20%#
43) trans-1,3-Dichloropropene-	7.66	79	37575	3.92	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.40%
46) 2-Hexanone-d5	8.13	63	183958	52.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.14%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	87530	5.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	124690	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

				Ovalue
3) Chloromethane	1.20	50	27410	1.444 ug/L # 44
8) Chloroethane	1.60	64	5000	0.428 ug/L # 51
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1766	0.099 ug/L # 46
12) 1,1-Dichloroethene	2.14	96	85031	5.448 ug/L 82
14) Carbon disulfide	2.32	76	4552	0.126 ug/L # 89
16) Methylene chloride	2.54	84	7371	0.345 ug/L 96
19) 1,1-Dichloroethane	3.23	63	80140	2.278 ug/L 96
22) cis-1,2-Dichloroethene	3.96	96	9676	0.468 ug/L 79
27) 1,2-Dichloroethane	5.19	62	1916	0.090 ug/L # 73
34) Trichloroethene	5.96	95	150097	6.930 ug/L 97
35) Methylcyclohexane	6.11	83	28163	0.975 ug/L # 20
37) 1,2-Dichloropropane	6.11	63	12919	0.640 ug/L # 86
44) trans-1,3-Dichloropropene	7.66	75	1868	0.083 ug/L # 77
47) Tetrachloroethene	8.02	164	13020	0.692 ug/L 97
48) 2-Hexanone	8.18	43	9003	1.071 ug/L # 85
49) Dibromochloromethane	8.02	129	11066	0.600 ug/L # 10
63) 1,4-Dichlorobenzene	11.31	146	3602	0.083 ug/L # 84

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

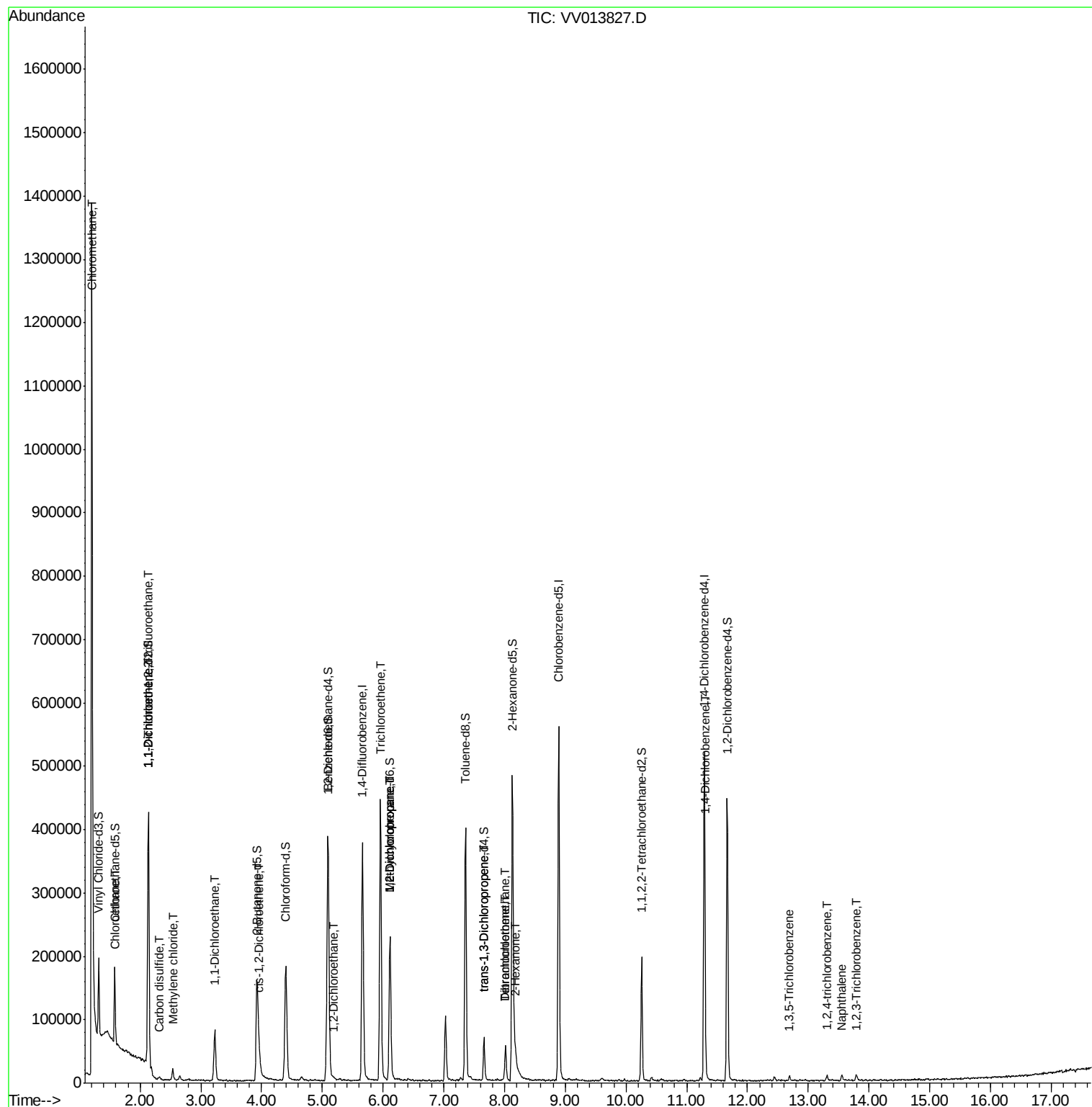
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	12.69	180	2675	0.075	ug/L #	91
68) 1,2,4-trichlorobenzene	13.31	180	3219	0.110	ug/L	94
69) Naphthalene	13.55	128	7847	0.196	ug/L	97
70) 1,2,3-Trichlorobenzene	13.79	180	3206	0.120	ug/L	93

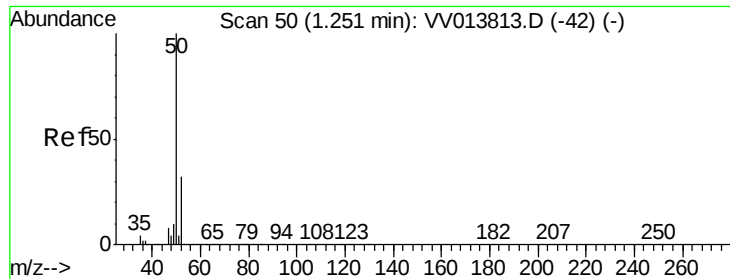
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 1.444 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.05 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Instrument :

MSVOA_V

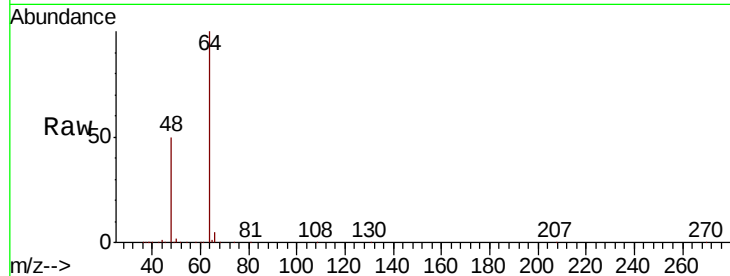
ClientSampleId :

Tot Ion: 50 Resp: 27410

Ion Ratio Lower Upper

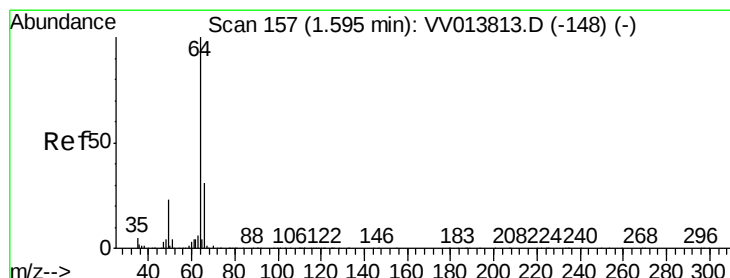
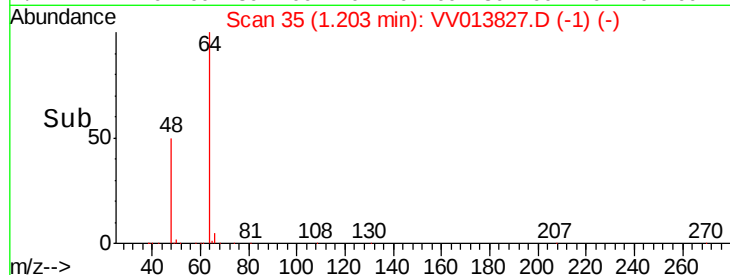
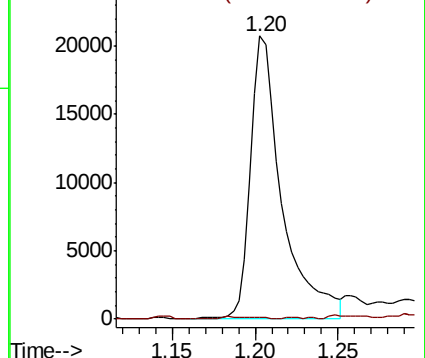
50 100

52 0.8 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: 0.428 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013827.D

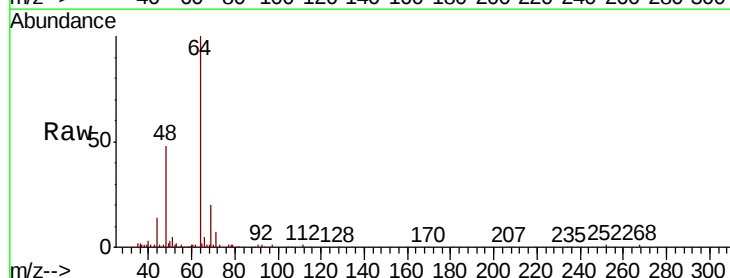
Acq: 27 Nov 2019 17:06

Tgt Ion: 64 Resp: 5000

Ion Ratio Lower Upper

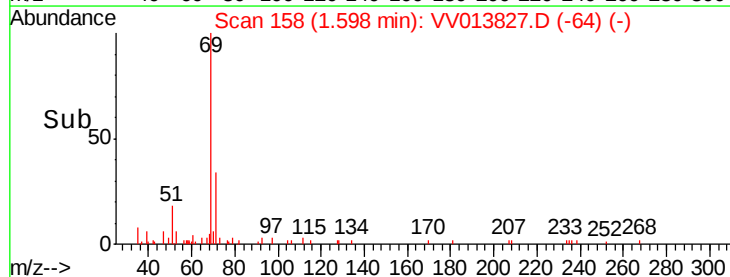
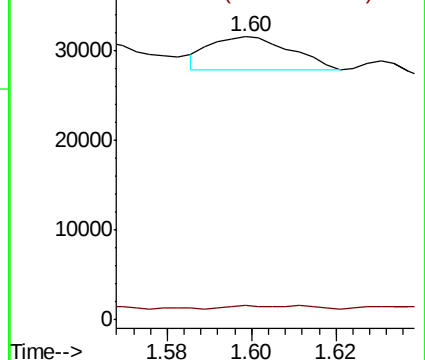
64 100

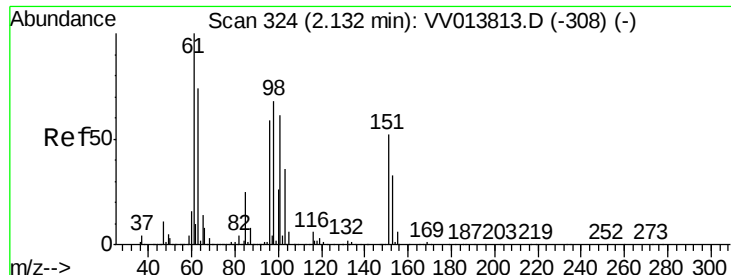
66 5.1 22.6 42.0#



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: 0.099 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Instrument :

MSVOA_V

ClientSampleId :

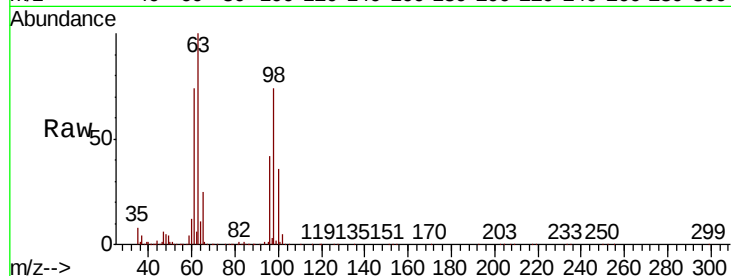
Tot Ion:101 Resp: 1766

Ion Ratio Lower Upper

101 100

85 25.8 33.4 50.0#

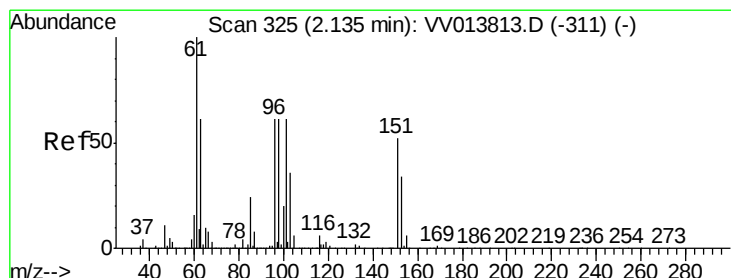
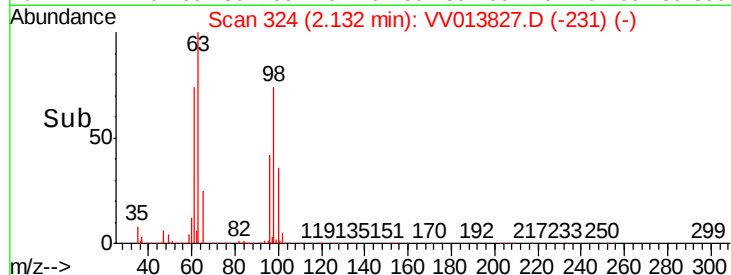
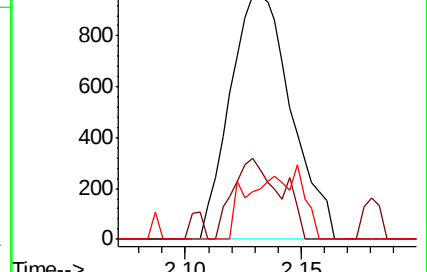
151 24.4 69.4 104.0#



Abundance Ion 101.00 (100.70 to 101.70): VV013827.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV013827.D (-231) (-)

Ion 151.00 (150.70 to 151.70): VV013827.D (-231) (-)



#12

1,1-Dichloroethene

Concen: 5.448 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.01 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

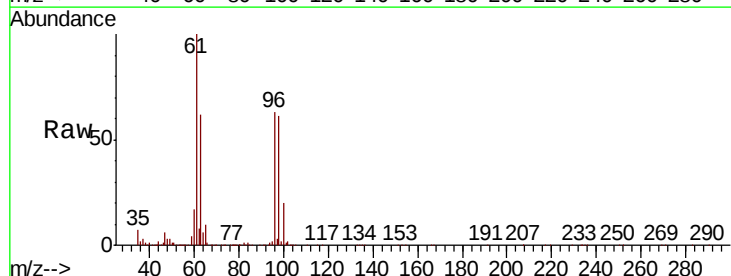
Tgt Ion: 96 Resp: 85031

Ion Ratio Lower Upper

96 100

61 159.0 116.3 215.9

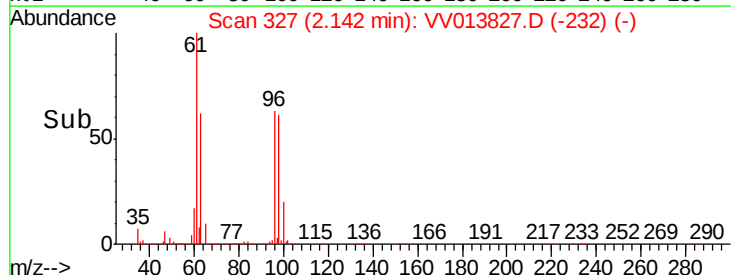
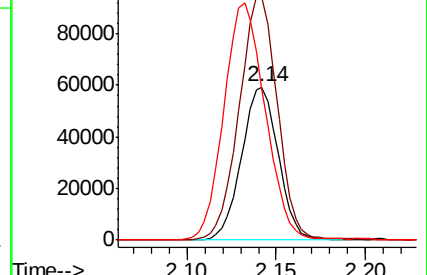
63 99.0 96.7 179.7

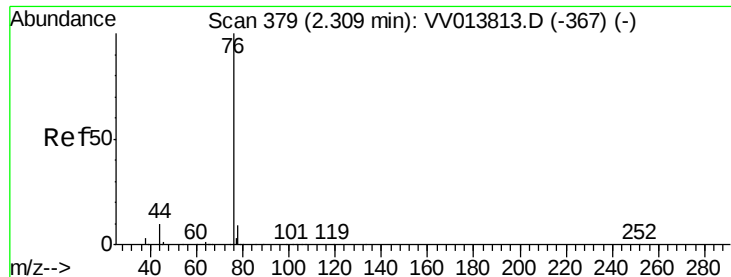


Abundance Ion 96.00 (95.70 to 96.70): VV013827.D (-232) (-)

Ion 61.05 (60.75 to 61.75): VV013827.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV013827.D (-232) (-)





#14

Carbon disulfide

Concen: 0.126 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Instrument :

MSVOA_V

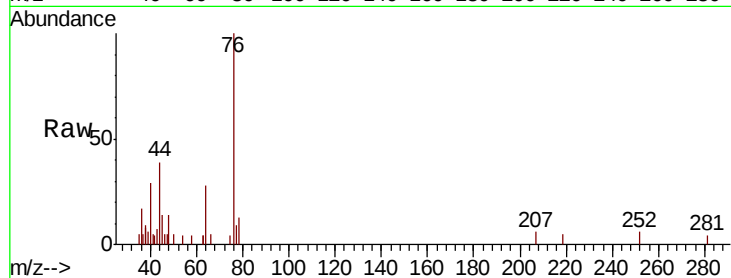
ClientSampleId :

Tot Ion: 76 Resp: 4552

Ion Ratio Lower Upper

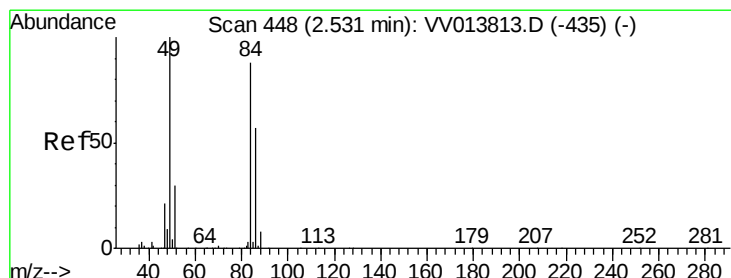
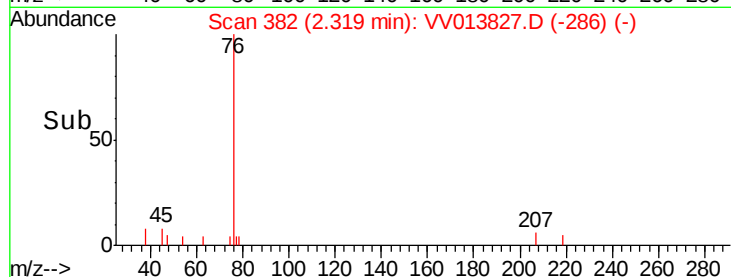
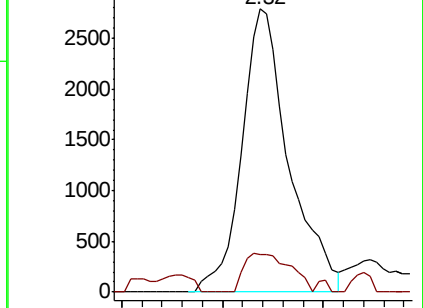
76 100

78 13.3 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 0.345 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.01 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

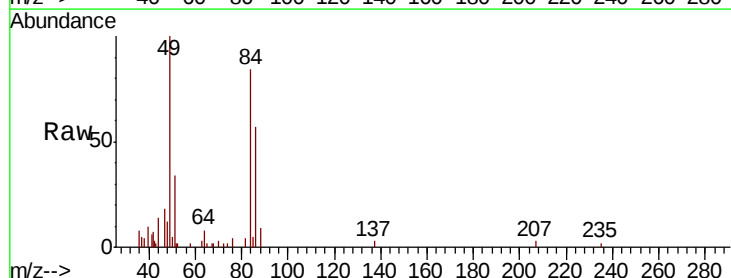
Tgt Ion: 84 Resp: 7371

Ion Ratio Lower Upper

84 100

86 68.4 44.0 81.6

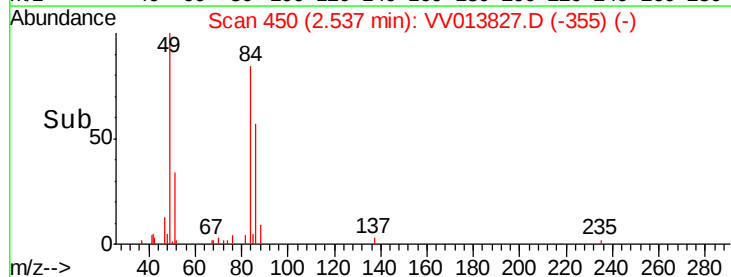
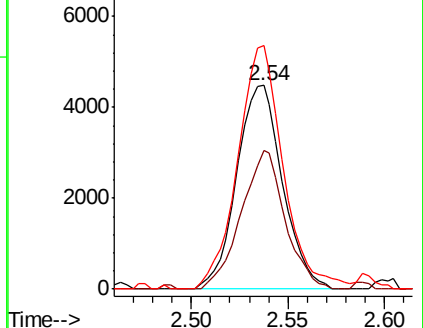
49 119.8 81.5 151.5

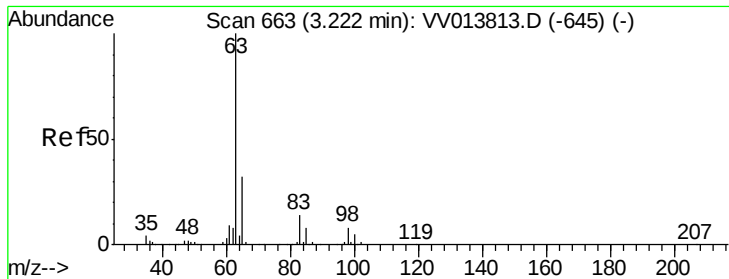


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0





#19

1,1-Dichloroethane

Concen: 2.278 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.01 min

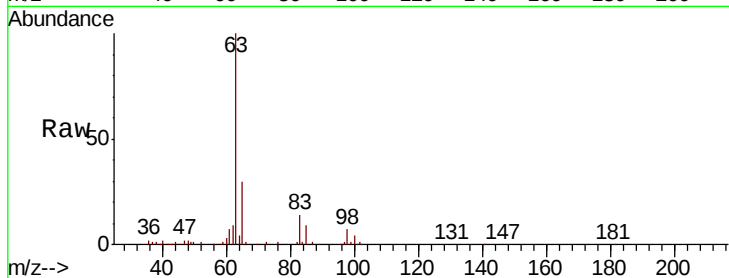
Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 63 Resp: 80140

Ion	Ratio	Lower	Upper
63	100		
65	29.9	22.7	42.1
83	14.1	9.2	17.2

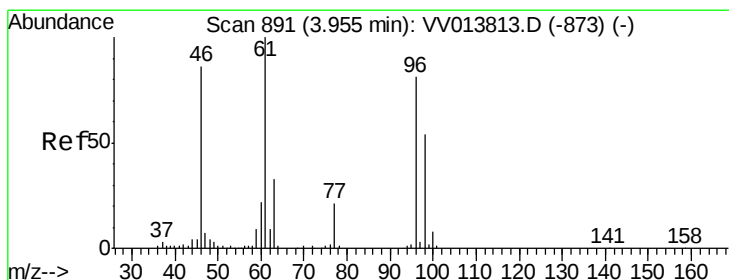
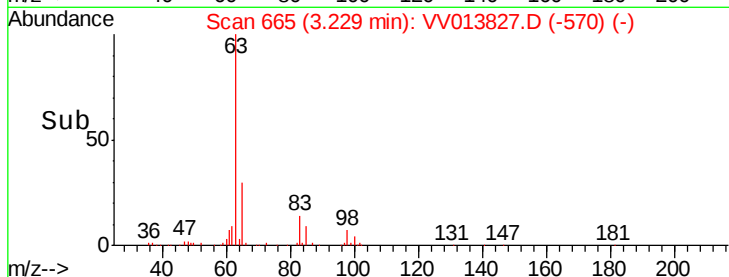
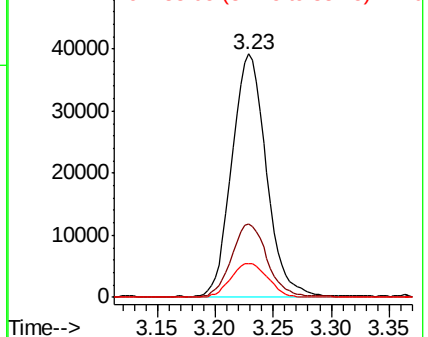


Abundance

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



#22

cis-1,2-Dichloroethene

Concen: 0.468 ug/L

RT: 3.96 min Scan# 894

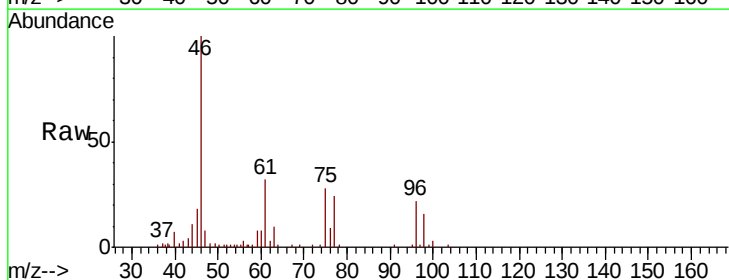
Delta R.T. 0.01 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Tgt Ion: 96 Resp: 9676

Ion	Ratio	Lower	Upper
96	100		
61	146.4	86.1	159.9
68	0.0	0.0	0.0

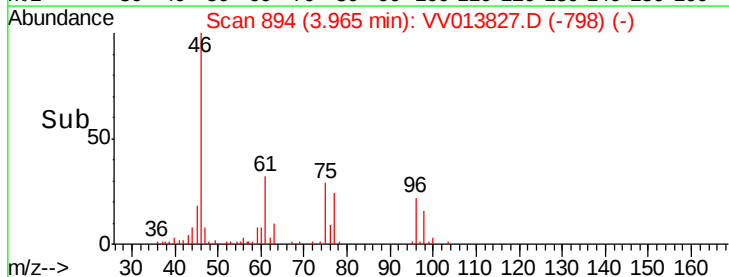
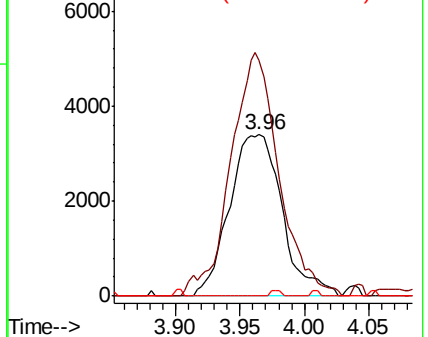


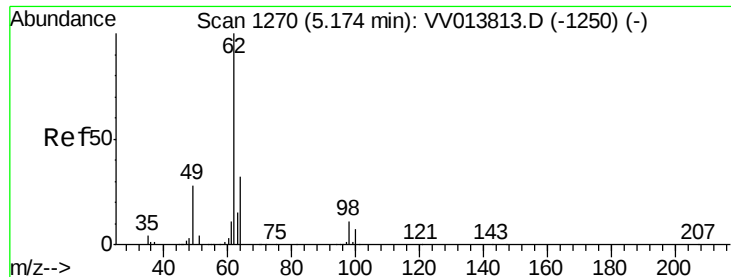
Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0

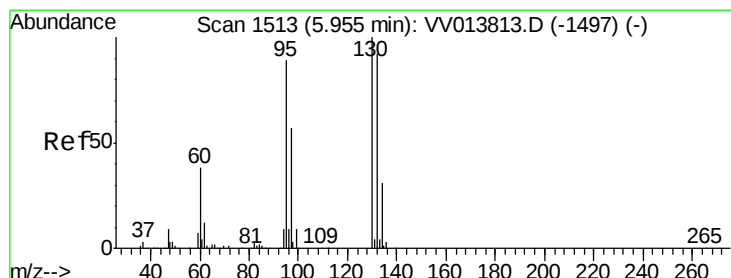
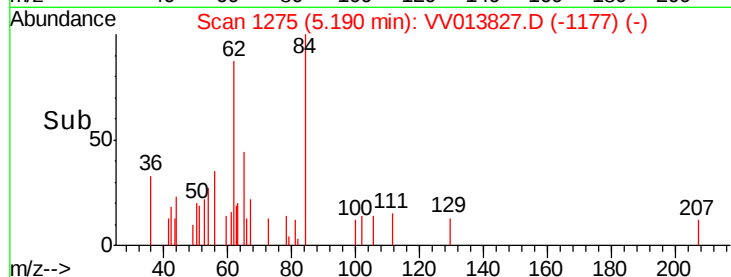
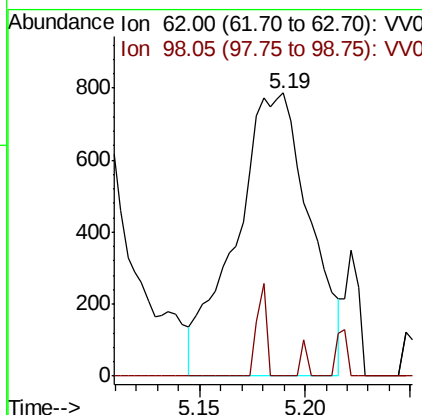
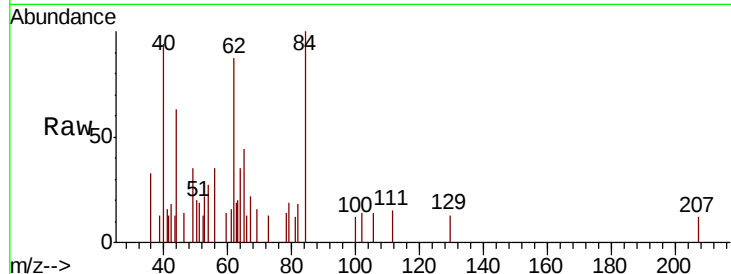




#27
 1,2-Dichloroethane
 Concen: 0.090 ug/L
 RT: 5.19 min Scan# 1275
 Delta R.T. 0.02 min
 Lab File: VV013827.D
 Acq: 27 Nov 2019 17:06

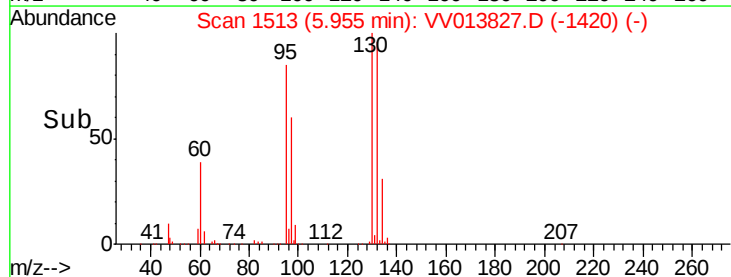
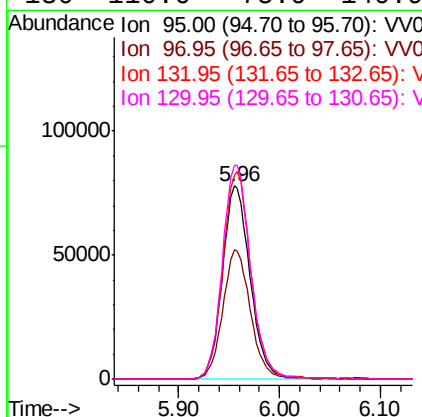
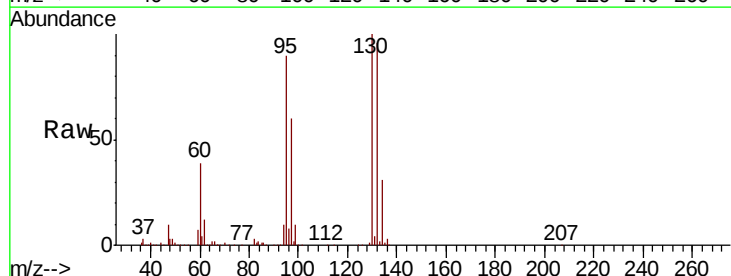
Instrument :
 MSVOA_V
 ClientSampled :

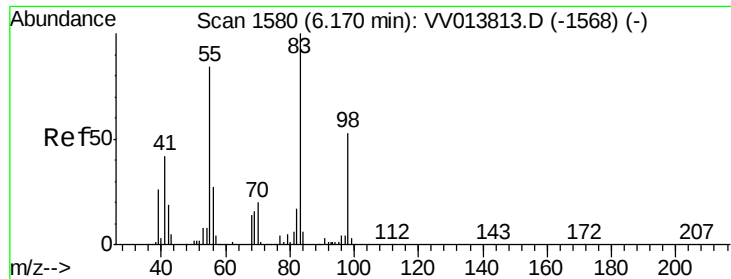
Tot Ion: 62 Resp: 1916
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.2 12.2#



#34
 Trichloroethene
 Concen: 6.930 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV013827.D
 Acq: 27 Nov 2019 17:06

Tgt Ion: 95 Resp: 150097
 Ion Ratio Lower Upper
 95 100
 97 66.8 45.6 84.8
 132 105.7 70.5 130.9
 130 110.6 75.9 140.9

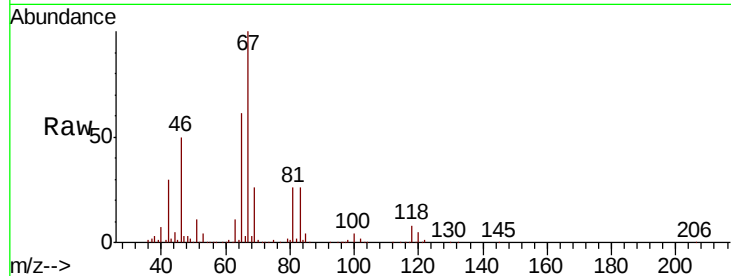




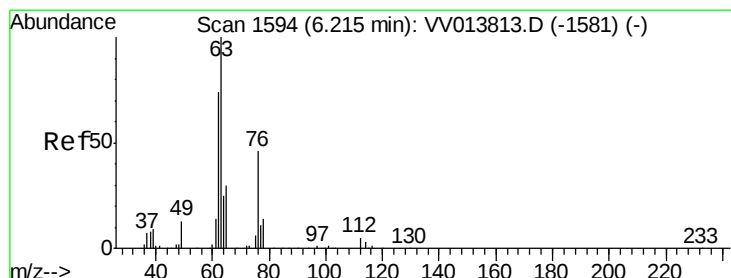
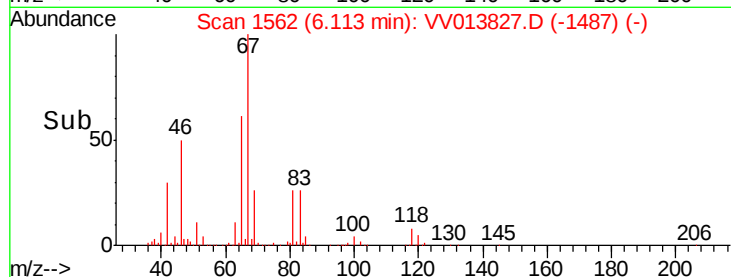
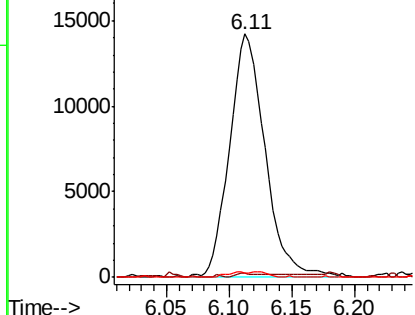
#35
Methvlcvclohexane
Concen: 0.975 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.06 min
Lab File: VV013827.D
Acq: 27 Nov 2019 17:06

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	83	Resp	28163
Ion	Ratio	Lower	Upper
83	100		
55	0.7	60.3	90.5#
98	1.3	38.1	57.1#

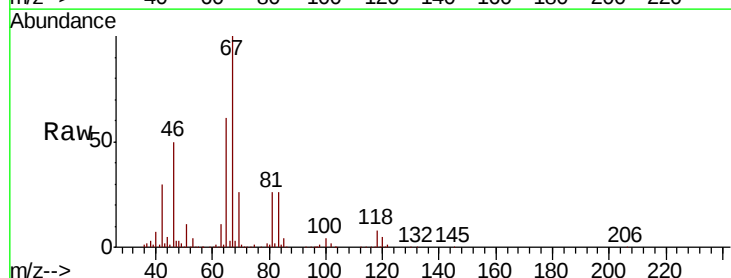


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

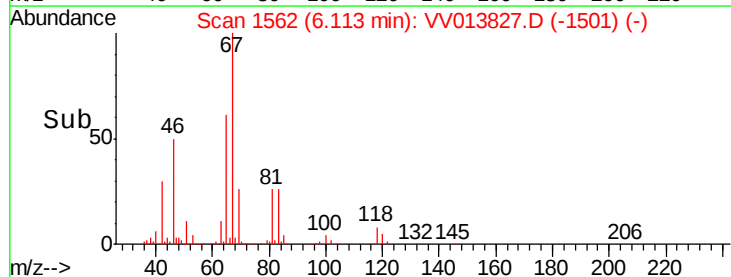
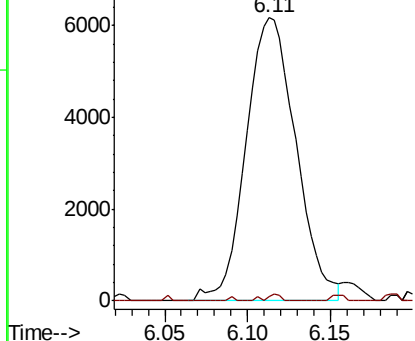


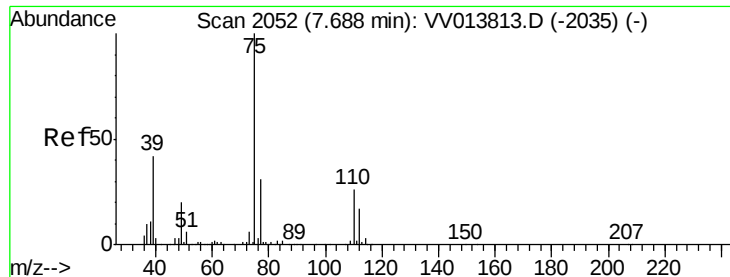
#37
1,2-Dichloropropane
Concen: 0.640 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.10 min
Lab File: VV013827.D
Acq: 27 Nov 2019 17:06

Tgt Ion	63	Resp	12919
Ion	Ratio	Lower	Upper
63	100		
112	0.7	4.4	6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#44

trans-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.03 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Instrument :

MSVOA_V

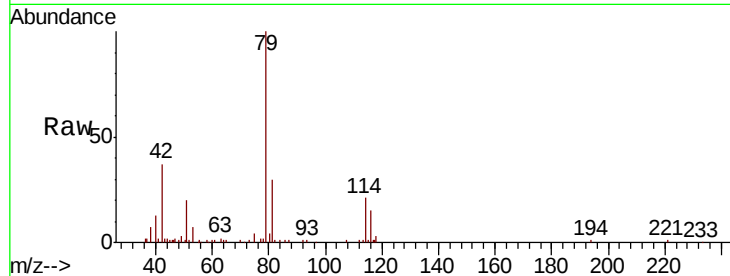
ClientSampleId :

Tot Ion: 75 Resp: 1868

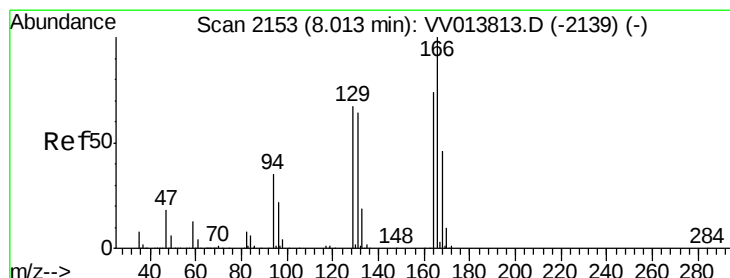
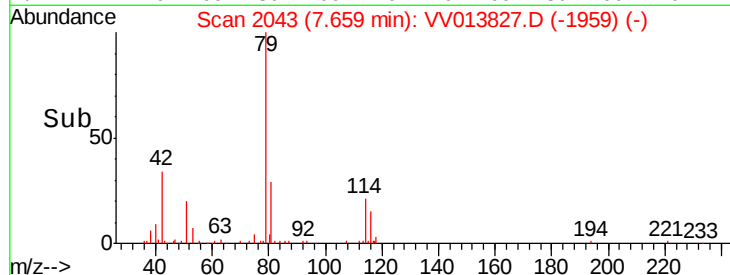
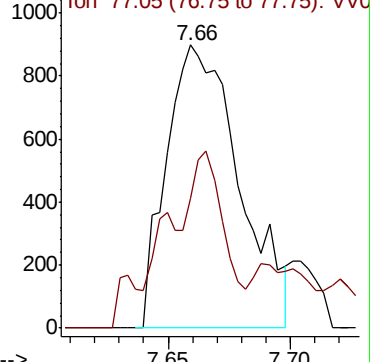
Ion Ratio Lower Upper

75 100

77 45.9 23.0 42.8#



Abundance Ion 75.05 (74.75 to 75.75): VV013813.D (-2035) (-)



#47

Tetrachloroethene

Concen: 0.692 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Tgt Ion: 164 Resp: 13020

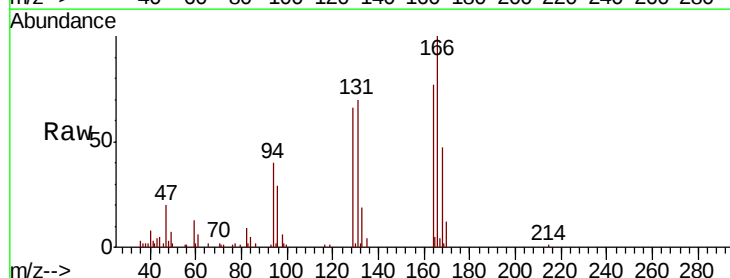
Ion Ratio Lower Upper

164 100

129 85.9 60.3 112.1

131 91.1 59.9 111.3

166 130.1 89.1 165.5

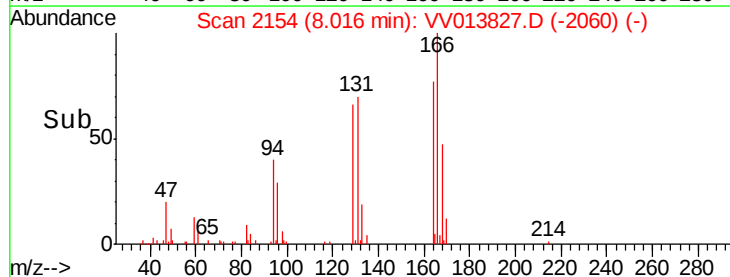
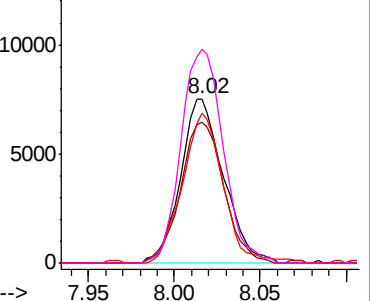


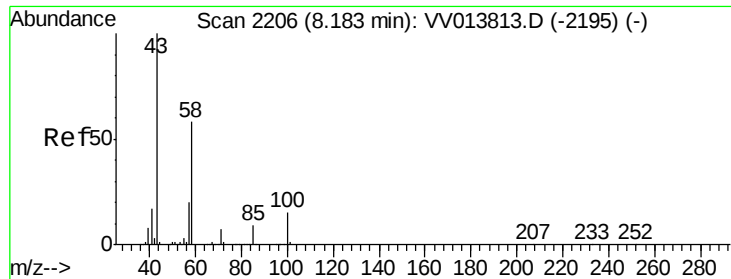
Abundance Ion 163.90 (163.60 to 164.60): VV013813.D (-2139) (-)

Ion 128.95 (128.65 to 129.65): VV013813.D (-2139) (-)

Ion 130.95 (130.65 to 131.65): VV013813.D (-2139) (-)

Ion 165.90 (165.60 to 166.60): VV013813.D (-2139) (-)

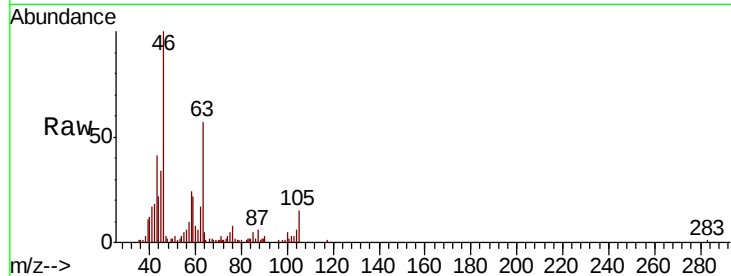




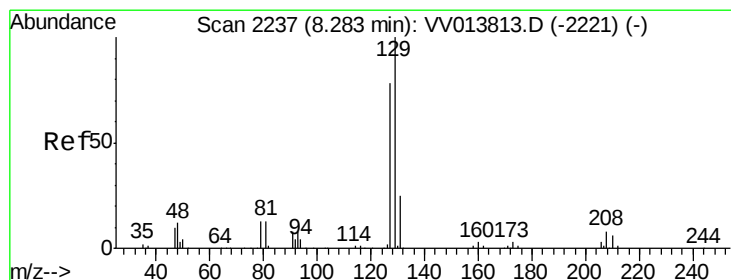
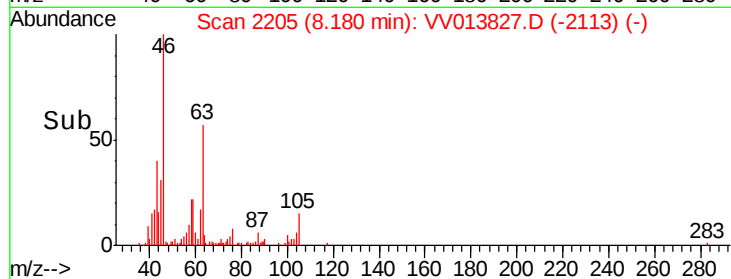
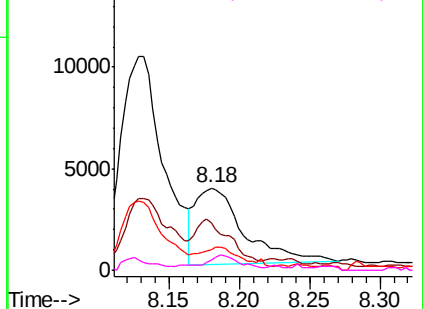
#48
2-Hexanone
Concen: 1.071 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV013827.D
Acq: 27 Nov 2019 17:06

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 9003
Ion Ratio Lower Upper
43 100
58 38.8 43.2 64.8#
57 20.3 15.4 23.2
100 15.7 10.4 15.6#

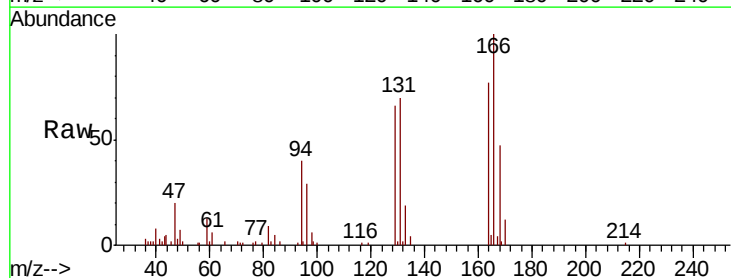


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

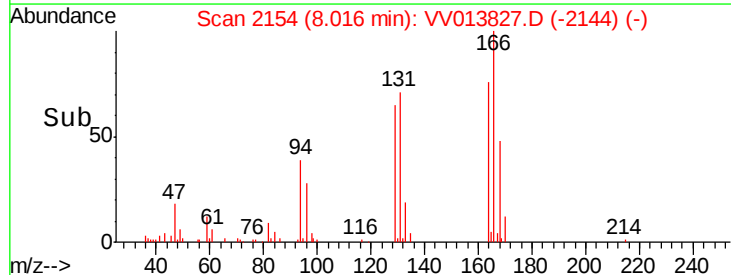
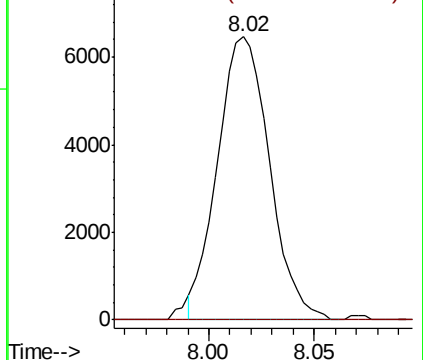


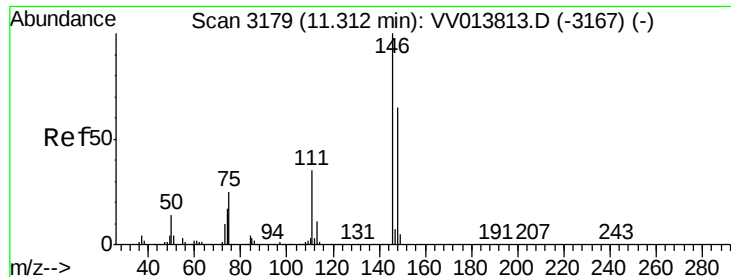
#49
Dibromochloromethane
Concen: 0.600 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.27 min
Lab File: VV013827.D
Acq: 27 Nov 2019 17:06

Tgt Ion: 129 Resp: 11066
Ion Ratio Lower Upper
129 100
127 0.0 55.7 103.5#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#63

1,4-Dichlorobenzene

Concen: 0.083 ug/L

RT: 11.31 min Scan# 3178

Delta R.T. -0.00 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Instrument :

MSVOA_V

ClientSampleId :

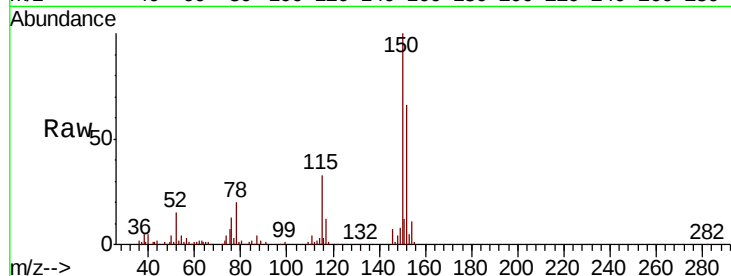
Tot Ion:146 Resp: 3602

Ion Ratio Lower Upper

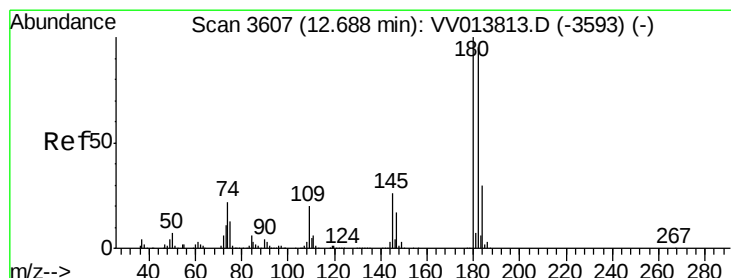
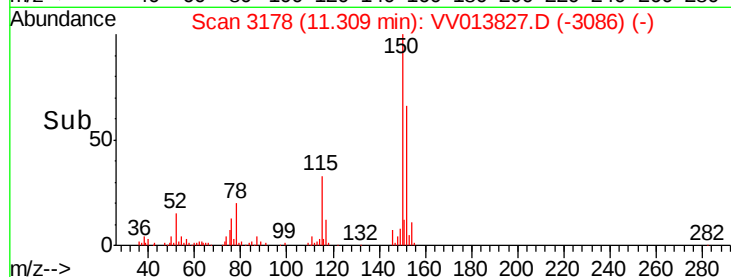
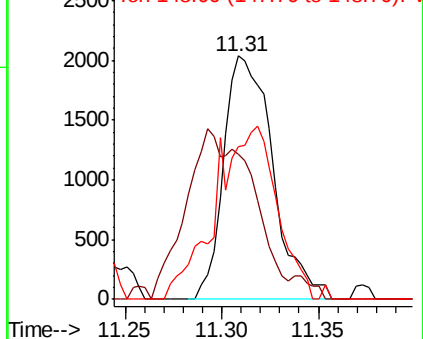
146 100

111 59.5 25.0 46.4#

148 62.9 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# 3609

Delta R.T. 0.01 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Tgt Ion:180 Resp: 2675

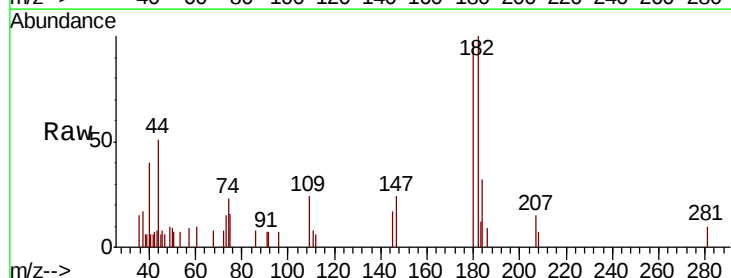
Ion Ratio Lower Upper

180 100

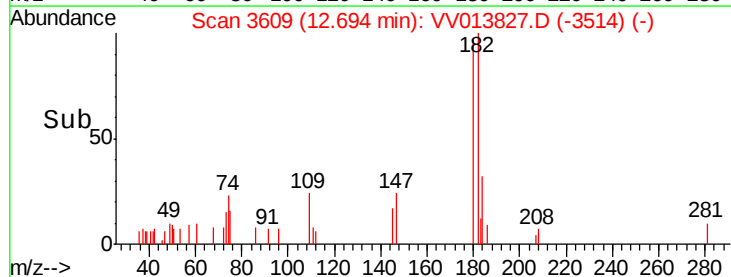
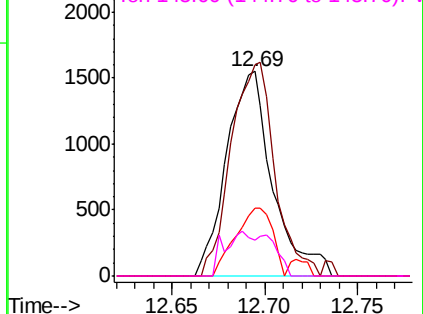
182 98.7 74.8 112.2

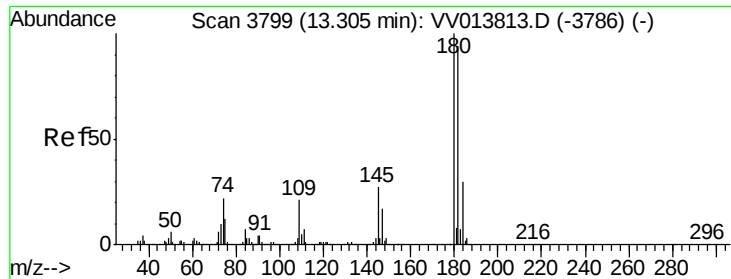
184 26.8 23.2 34.8

145 13.9 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

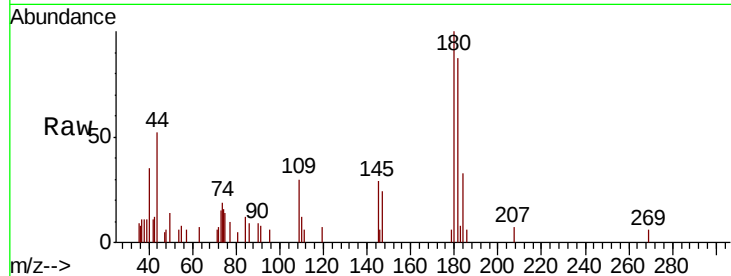




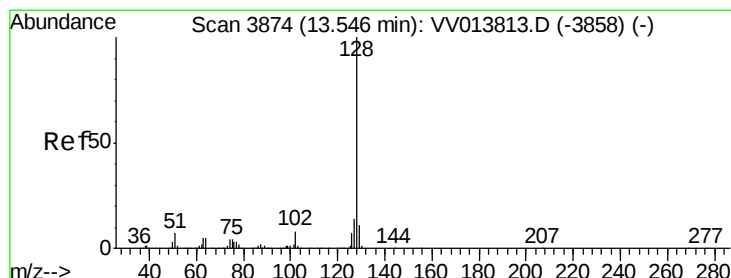
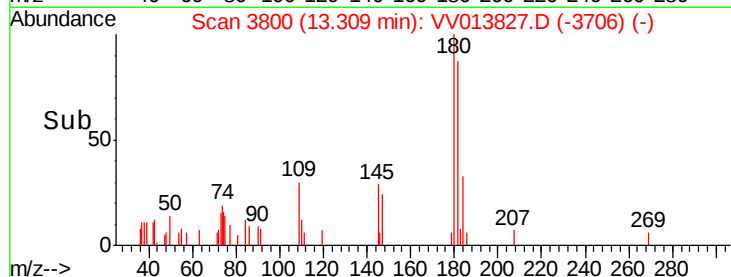
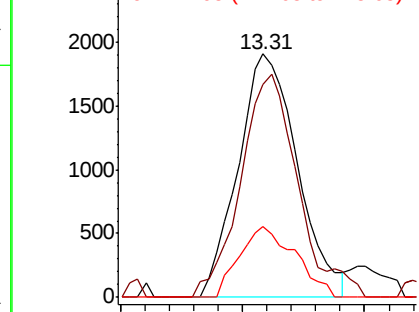
#68
 1,2,4-trichlorobenzene
 Concen: 0.110 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013827.D
 Acq: 27 Nov 2019 17:06

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 3219
 Ion Ratio Lower Upper
 180 100
 182 88.2 76.2 114.4
 145 27.3 21.0 31.6

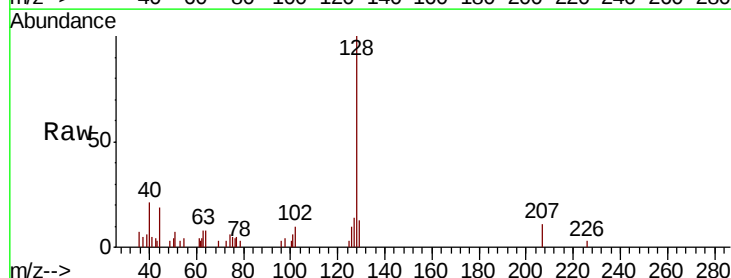


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

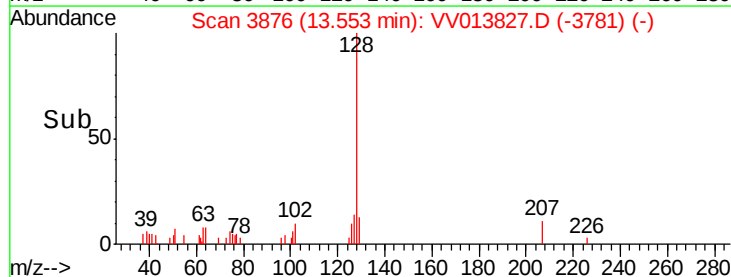
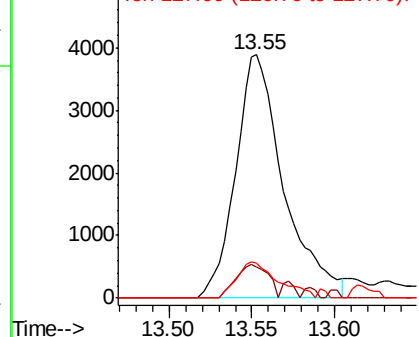


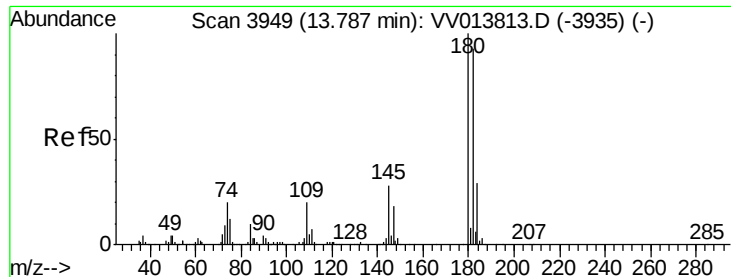
#69
 Naphthalene
 Concen: 0.196 ug/L
 RT: 13.55 min Scan# 3876
 Delta R.T. 0.01 min
 Lab File: VV013827.D
 Acq: 27 Nov 2019 17:06

Tgt Ion:128 Resp: 7847
 Ion Ratio Lower Upper
 128 100
 129 9.0 8.6 12.8
 127 12.6 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: 0.120 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV013827.D

Acq: 27 Nov 2019 17:06

Instrument :

MSVOA_V

ClientSampleId :

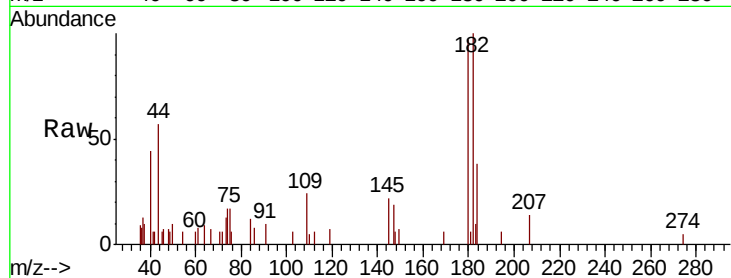
Tot Ion:180 Resp: 3206

Ion Ratio Lower Upper

180 100

182 105.8 78.5 117.7

145 28.5 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

