

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR122118\
 Data File : VR026293.D
 Acq On : 21 Dec 2018 21:44
 Operator : SY/MD
 Sample : VSRDCCC005EC
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :

Quant Time: Dec 21 22:29:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR121718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 21 22:24:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	571114	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	476772	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	193787	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.16	65	165647	4.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.20%
7) Chloroethane-d5	2.63	69	174391	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	3.61	63	486457	4.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.80%
20) 2-Butanone-d5	6.59	46	183424	56.83	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.66%
24) Chloroform-d	7.20	84	388939	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.20%
26) 1,2-Dichloroethane-d4	7.90	65	148856	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.40%
32) Benzene-d6	7.85	84	732247	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
36) 1,2-Dichloropropane-d6	8.90	67	190423	4.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.80%
41) Toluene-d8	9.97	98	659160	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
43) trans-1,3-Dichloropropene-	10.24	79	48859	4.77	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.40%
46) 2-Hexanone-d5	10.59	63	139412	65.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	130.80%#
57) 1,1,2,2-Tetrachloroethane-	12.36	84	78429	5.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.60%
64) 1,2-Dichlorobenzene-d4	13.52	152	145581	4.71	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	228737	4.824	ug/L 98
3) Chloromethane	2.01	50	280020	4.945	ug/L 99
5) Vinyl chloride	2.17	62	284757	4.946	ug/L 96
6) Bromomethane	2.52	94	176904	4.606	ug/L 96
8) Chloroethane	2.66	64	172407	4.859	ug/L 98
9) Trichlorofluoromethane	2.94	101	405187	4.590	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	229852	4.771	ug/L 99
12) 1,1-Dichloroethene	3.63	96	245349	4.797	ug/L 89
13) Acetone	3.70	43	151952	46.219	ug/L 96
14) Carbon disulfide	3.94	76	755146	4.498	ug/L 97
15) Methyl Acetate	4.19	43	45261	5.159	ug/L 99
16) Methylene chloride	4.40	84	219640	5.032	ug/L 98
17) Methyl tert-butyl Ether	4.89	73	249487	5.694	ug/L 99
18) trans-1,2-Dichloroethene	4.88	96	217645	4.802	ug/L 92
19) 1,1-Dichloroethane	5.69	63	386039	4.659	ug/L 96
21) 2-Butanone	6.69	43	212181	54.420	ug/L 99
22) cis-1,2-Dichloroethene	6.67	96	199004	4.916	ug/L # 92

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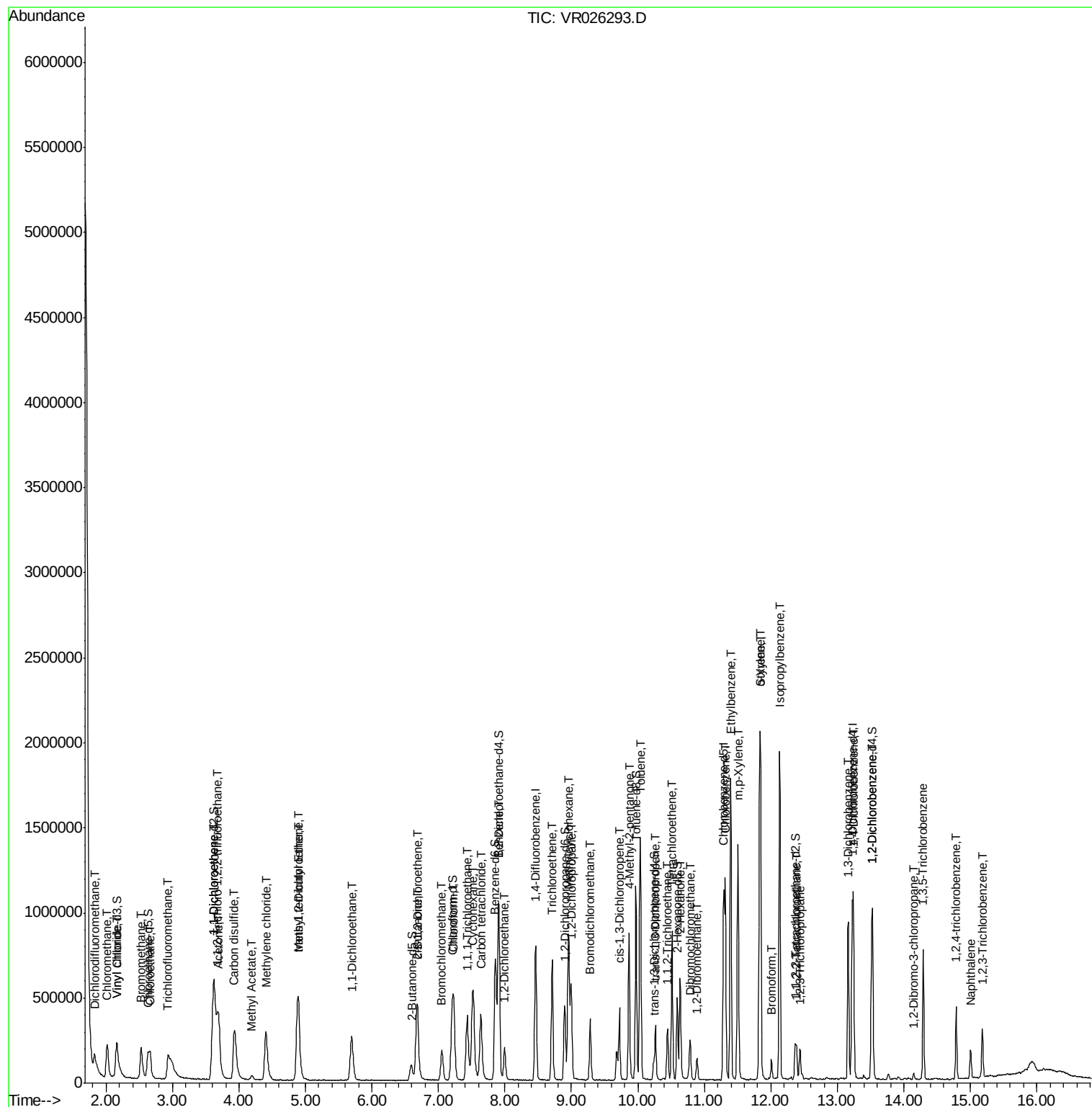
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.06	128	58703	4.924	uq/L	94
25) Chloroform	7.23	83	386125	4.915	uq/L	98
27) 1,2-Dichloroethane	7.99	62	173375	5.118	uq/L	98
29) 1,1,1-Trichloroethane	7.43	97	347181	4.447	uq/L	99
30) Cyclohexane	7.52	56	317925	4.594	uq/L	100
31) Carbon tetrachloride	7.64	117	306795	4.316	uq/L	99
33) Benzene	7.91	78	881969	4.699	uq/L	100
34) Trichloroethene	8.71	95	221446	4.475	uq/L	99
35) Methylcyclohexane	8.95	83	322778	4.499	uq/L	98
37) 1,2-Dichloropropane	9.00	63	183743	4.781	uq/L	98
38) Bromodichloromethane	9.28	83	210537	4.836	uq/L	100
39) cis-1,3-Dichloropropene	9.72	75	211037	4.992	uq/L	98
40) 4-Methyl-2-pentanone	9.87	43	545959	59.030	uq/L	100
42) Toluene	10.04	91	929451	4.845	uq/L	98
44) trans-1,3-Dichloropropene	10.26	75	151985	5.059	uq/L	99
45) 1,1,2-Trichloroethane	10.45	97	78726	4.935	uq/L	99
47) Tetrachloroethene	10.51	164	162398	4.314	uq/L	96
48) 2-Hexanone	10.63	43	355248	59.590	uq/L	100
49) Dibromochloromethane	10.79	129	101965	5.035	uq/L	95
50) 1,2-Dibromoethane	10.89	107	68539	5.100	uq/L	97
51) Chlorobenzene	11.32	112	501849	4.676	uq/L	99
52) Ethylbenzene	11.39	91	1053571	4.865	uq/L	100
53) m,p-Xylene	11.50	106	388604	4.798	uq/L	94
54) o-Xylene	11.83	106	355583	5.039	uq/L	97
55) Styrene	11.84	104	546144	5.126	uq/L	99
56) Isopropylbenzene	12.13	105	1027748	5.122	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	75317	5.346	uq/L	95
59) 1,2,3-Trichloropropane	12.43	75	58279	5.337	uq/L	100
61) Bromoform	12.01	173	40325	4.925	uq/L	96
62) 1,3-Dichlorobenzene	13.16	146	315044	5.002	uq/L	99
63) 1,4-Dichlorobenzene	13.24	146	315630	4.665	uq/L	99
65) 1,2-Dichlorobenzene	13.53	146	245397	4.786	uq/L	97
66) 1,2-Dibromo-3-chloropropan	14.15	75	8268	4.544	uq/L #	91
67) 1,3,5-Trichlorobenzene	14.30	180	186703	4.628	uq/L	98
68) 1,2,4-trichlorobenzene	14.79	180	106116	4.842	uq/L	100
69) Naphthalene	15.00	128	112324	5.706	uq/L	99
70) 1,2,3-Trichlorobenzene	15.18	180	77567	5.104	uq/L	95

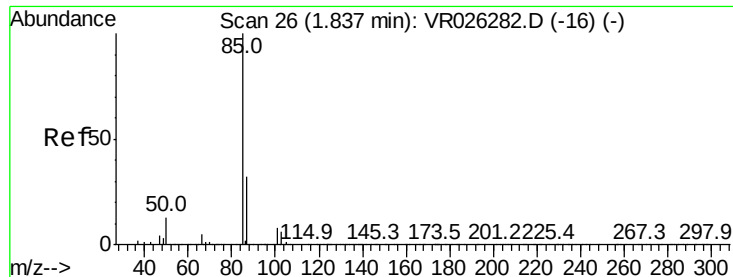
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.824 ug/L

RT: 1.83 min Scan# 25

Delta R.T. -0.01 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

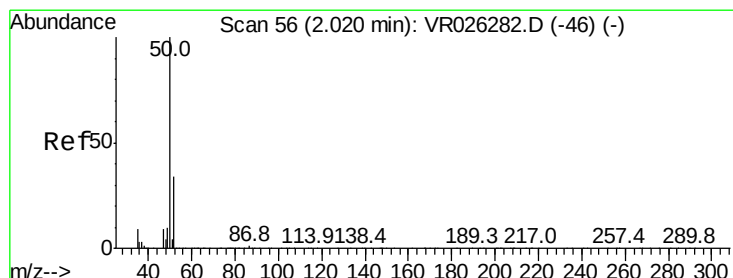
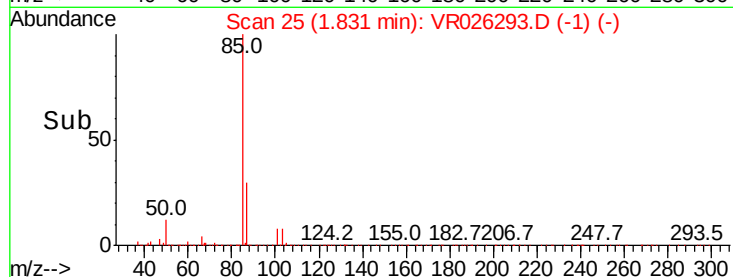
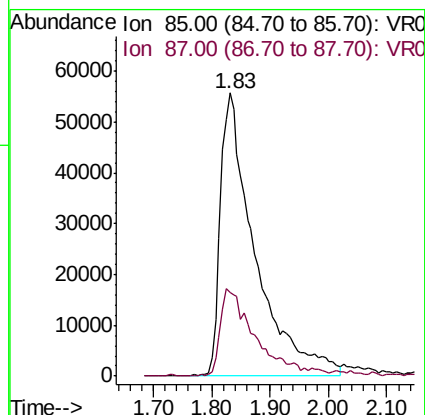
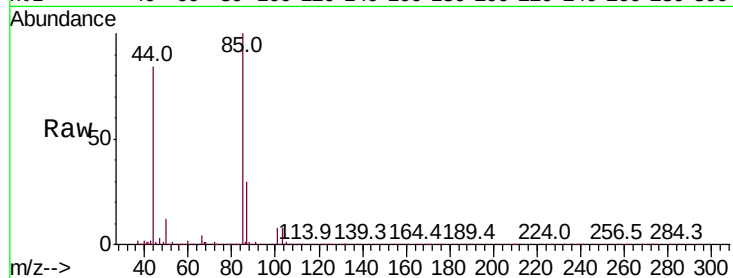
ClientSampleId :

Tot Ion: 85 Resp: 228737

Ion Ratio Lower Upper

85 100

87 30.6 23.8 35.6



#3

Chloromethane

Concen: 4.945 ug/L

RT: 2.01 min Scan# 55

Delta R.T. -0.01 min

Lab File: VR026293.D

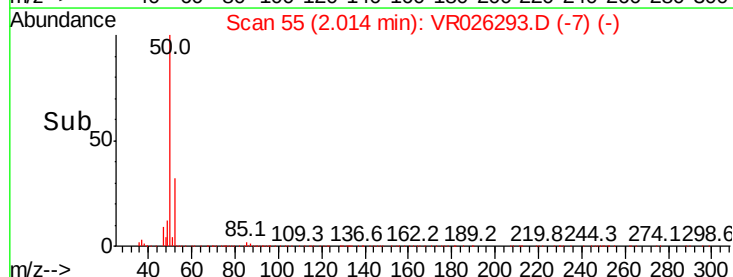
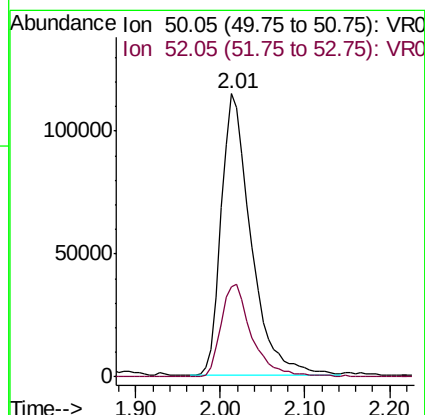
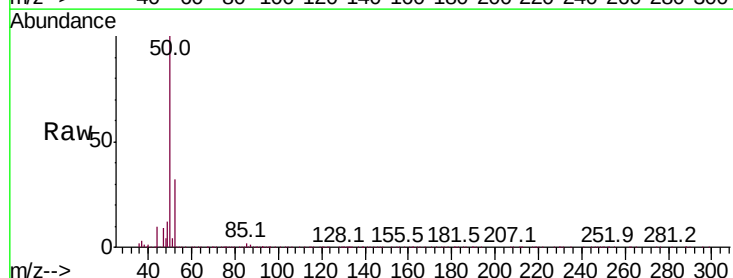
Acq: 21 Dec 2018 21:44

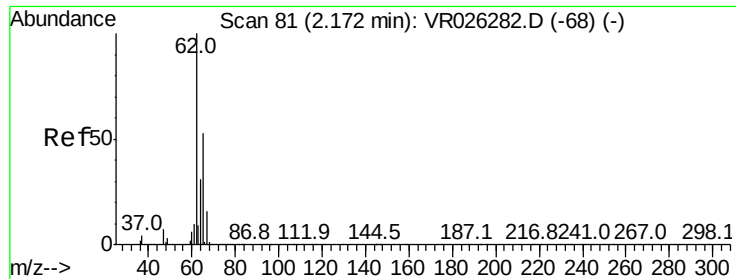
Tgt Ion: 50 Resp: 280020

Ion Ratio Lower Upper

50 100

52 32.0 22.8 42.4





#5

Vinyl chloride

Concen: 4.946 ug/L

RT: 2.17 min Scan# 80

Delta R.T. -0.01 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

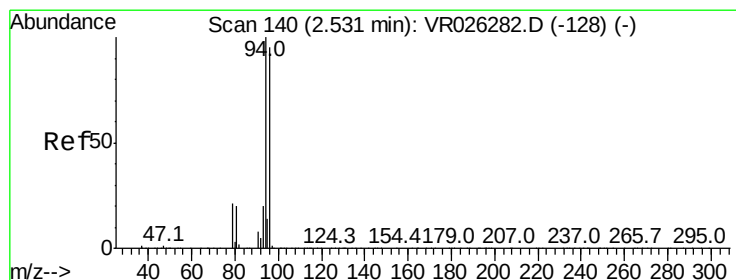
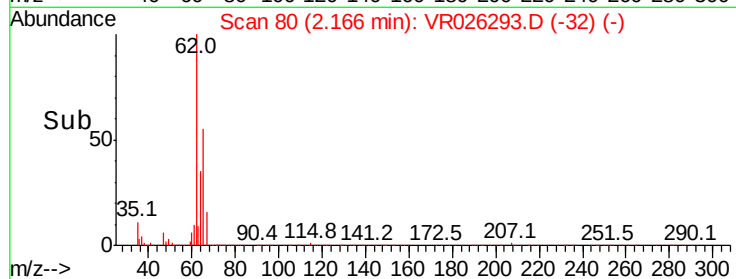
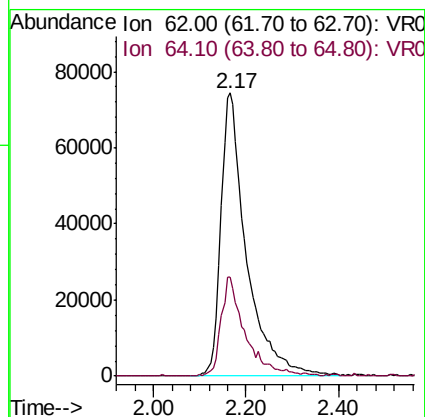
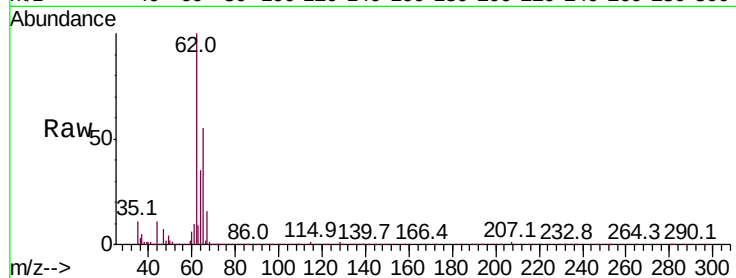
ClientSampleId :

Tot Ion: 62 Resp: 284757

Ion Ratio Lower Upper

62 100

64 34.9 22.7 42.1



#6

Bromomethane

Concen: 4.606 ug/L

RT: 2.52 min Scan# 139

Delta R.T. -0.01 min

Lab File: VR026293.D

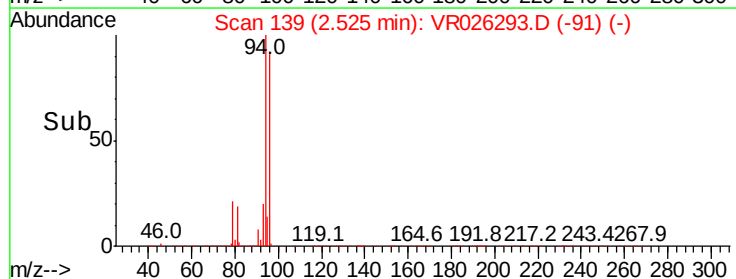
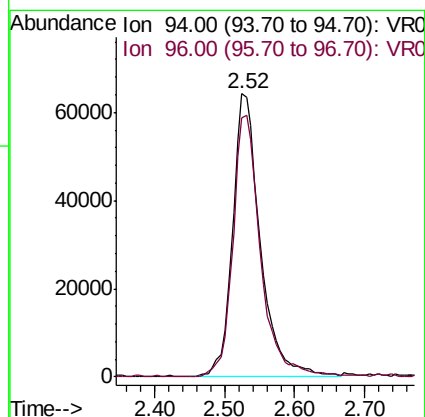
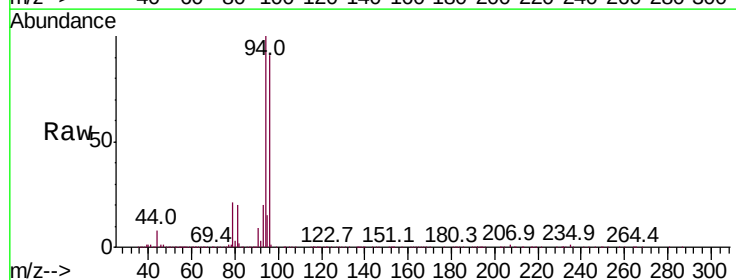
Acq: 21 Dec 2018 21:44

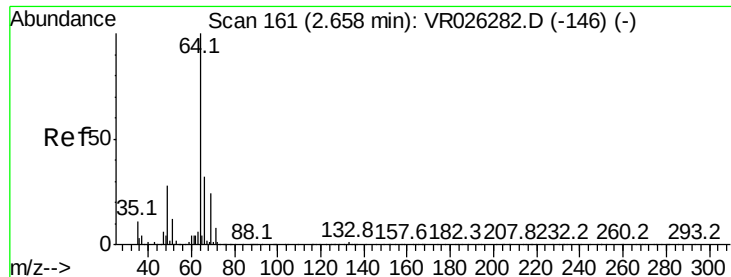
Tgt Ion: 94 Resp: 176904

Ion Ratio Lower Upper

94 100

96 91.5 67.1 124.5





#8

Chloroethane

Concen: 4.859 ug/L

RT: 2.66 min Scan# 161

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

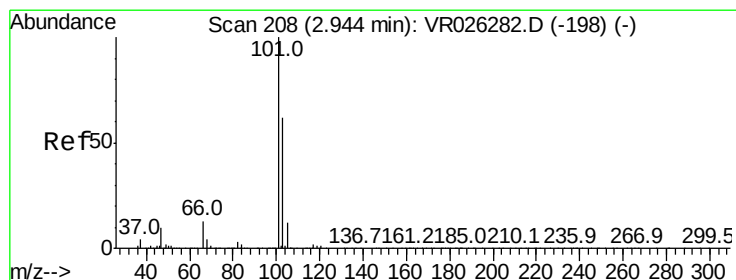
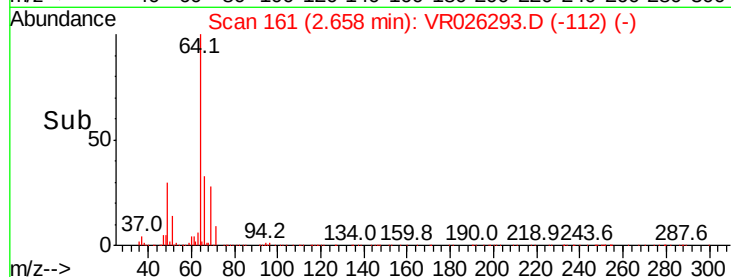
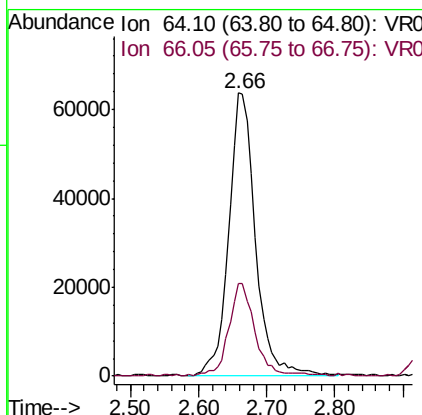
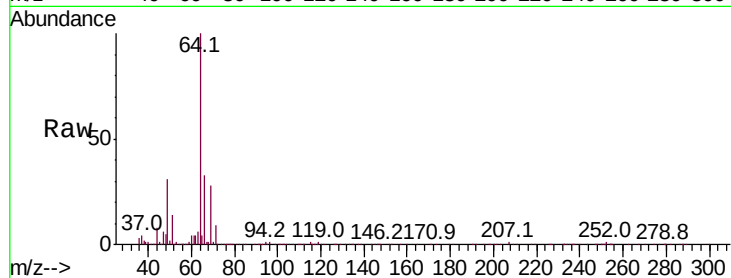
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 64 Resp: 172407

Ion Ratio Lower Upper

64 100

66 32.8 22.2 41.2



#9

Trichlorofluoromethane

Concen: 4.590 ug/L

RT: 2.94 min Scan# 207

Delta R.T. -0.01 min

Lab File: VR026293.D

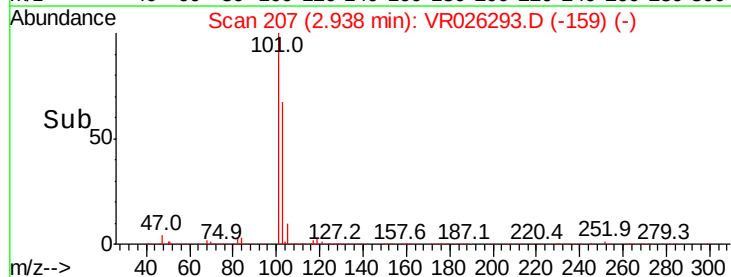
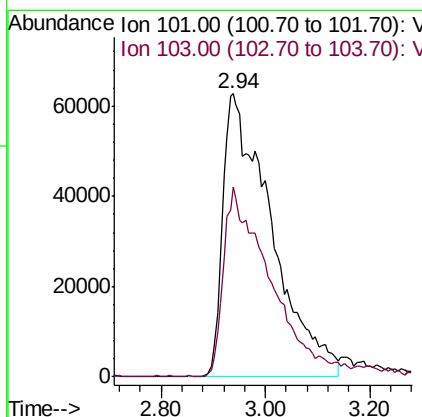
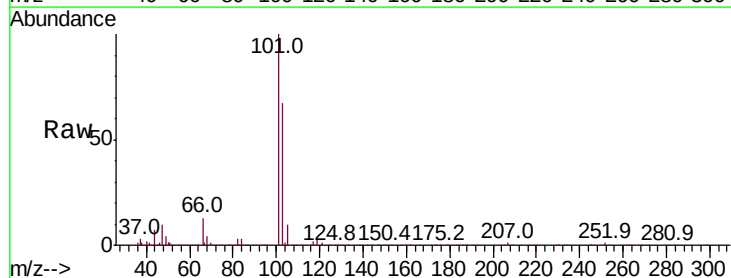
Acq: 21 Dec 2018 21:44

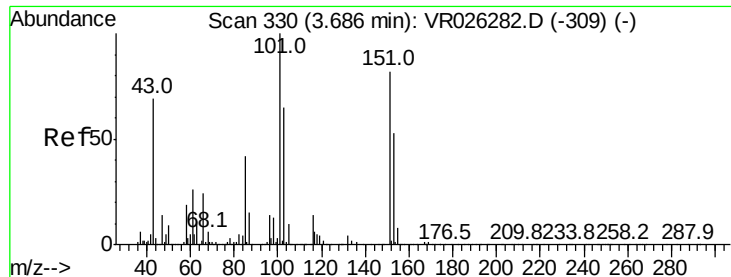
Tgt Ion: 101 Resp: 405187

Ion Ratio Lower Upper

101 100

103 63.3 52.4 78.6





#10

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

Concen: 4.771 ug/L

RT: 3.69 min Scan# 330

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

ClientSampleId :

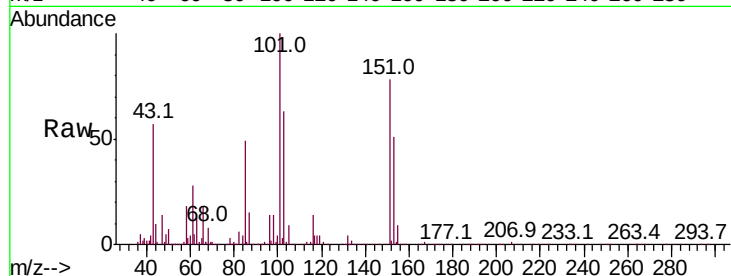
Tot Ion:101 Resp: 229852

Ion Ratio Lower Upper

101 100

85 48.6 38.2 57.2

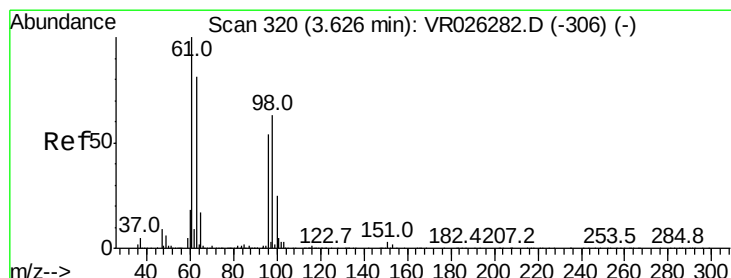
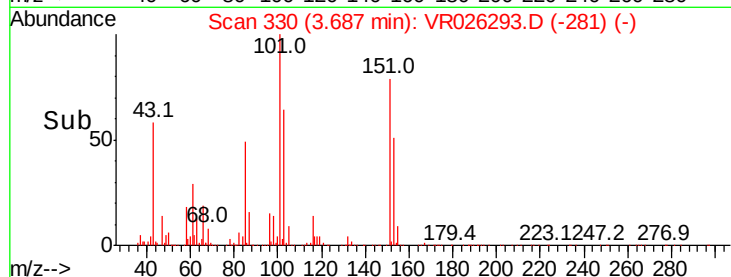
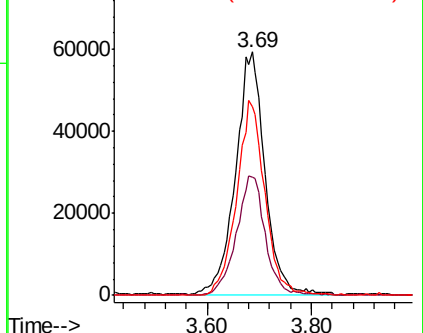
151 77.8 61.7 92.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.797 ug/L

RT: 3.63 min Scan# 320

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

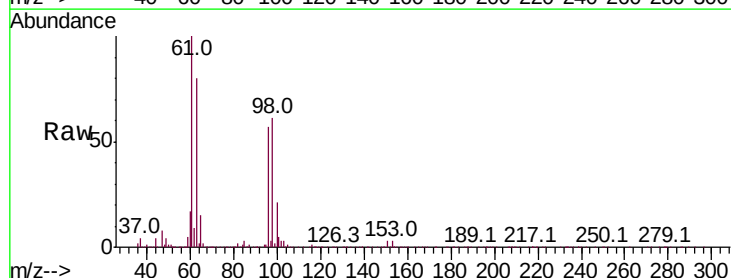
Tgt Ion: 96 Resp: 245349

Ion Ratio Lower Upper

96 100

61 176.8 127.1 236.0

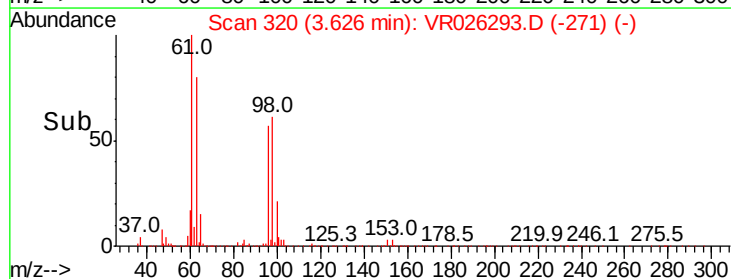
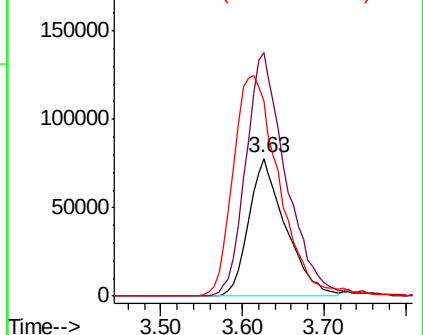
63 141.7 81.5 151.5

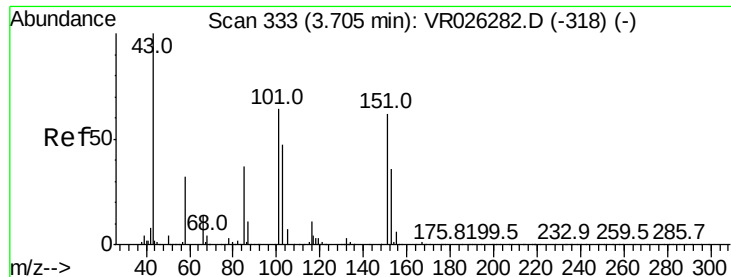


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 46.219 ug/L

RT: 3.70 min Scan# 332

Delta R.T. -0.01 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

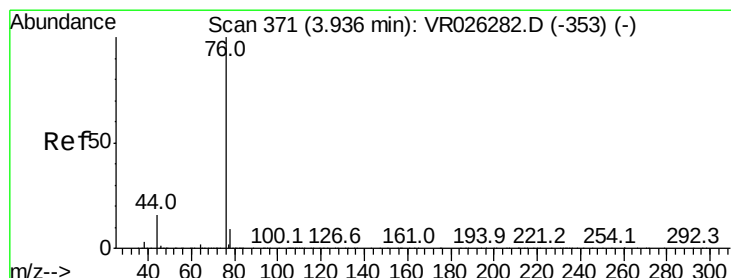
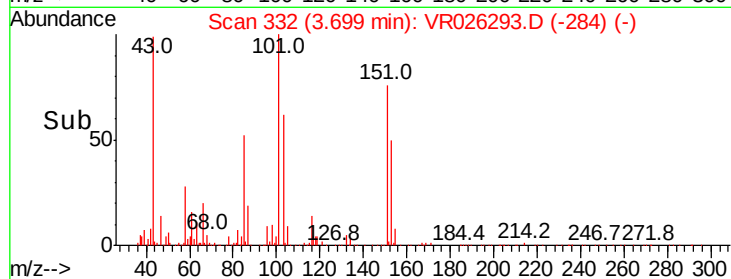
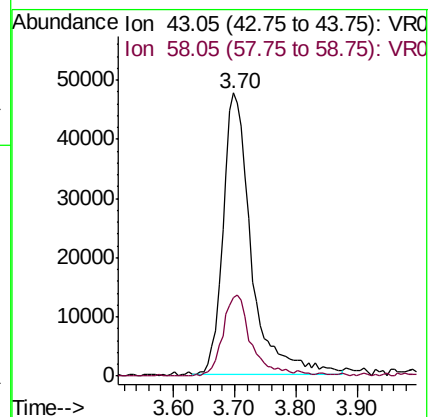
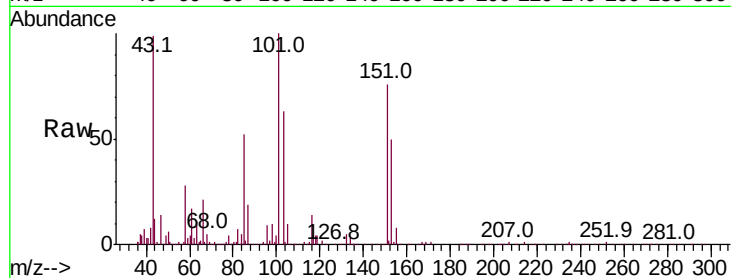
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 43 Resp: 151952

Ion Ratio Lower Upper

43 100

58 28.2 0.0 60.8



#14

Carbon disulfide

Concen: 4.498 ug/L

RT: 3.94 min Scan# 371

Delta R.T. 0.00 min

Lab File: VR026293.D

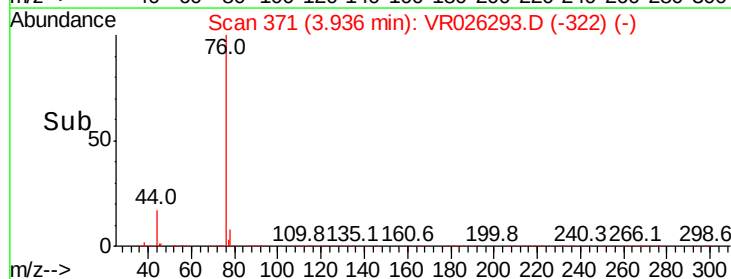
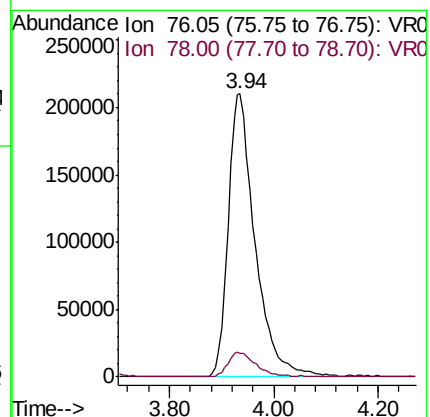
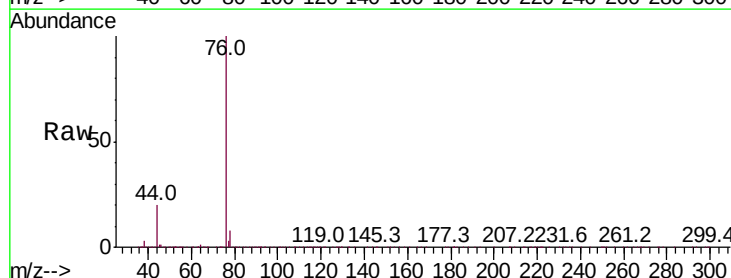
Acq: 21 Dec 2018 21:44

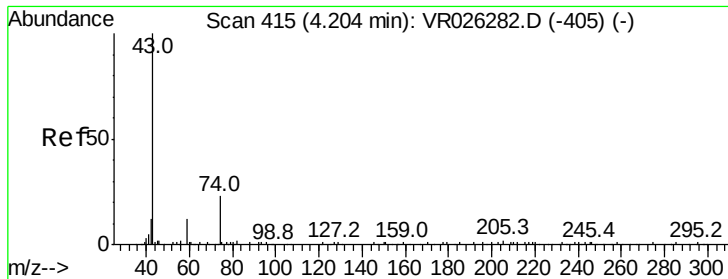
Tgt Ion: 76 Resp: 755146

Ion Ratio Lower Upper

76 100

78 8.5 7.6 11.4

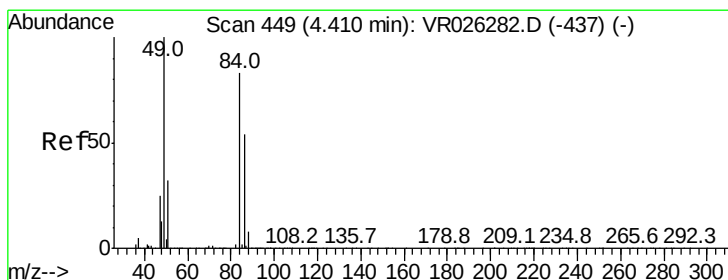
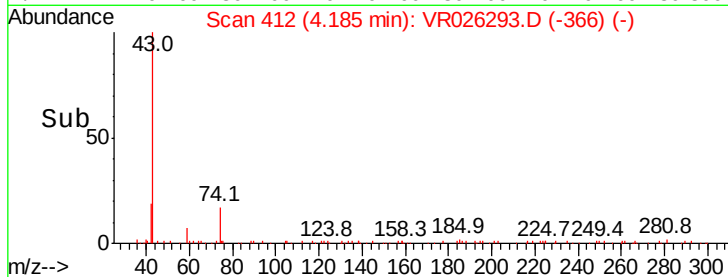
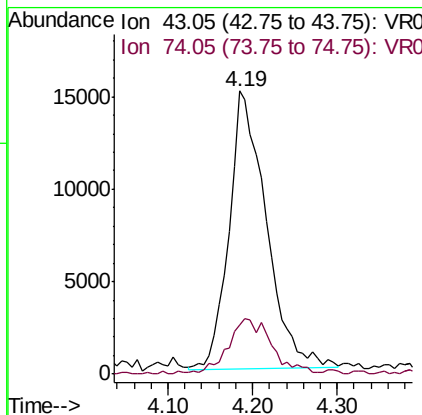
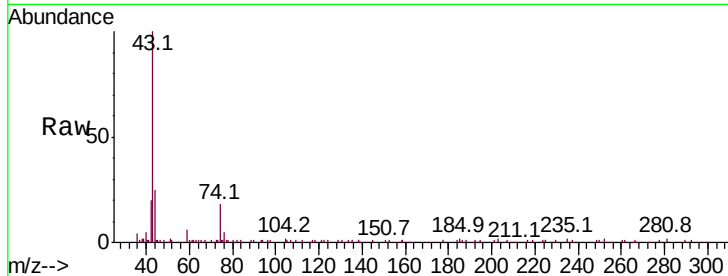




#15
Methvl Acetate
Concen: 5.159 ug/L
RT: 4.19 min Scan# 412
Delta R.T. -0.02 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

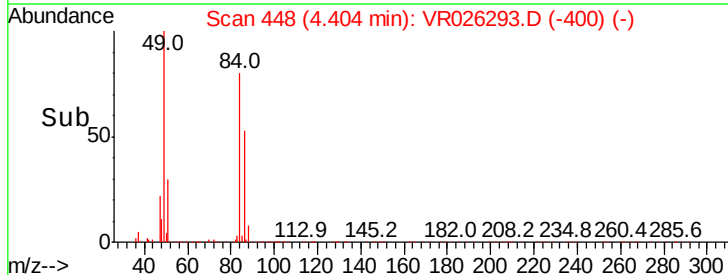
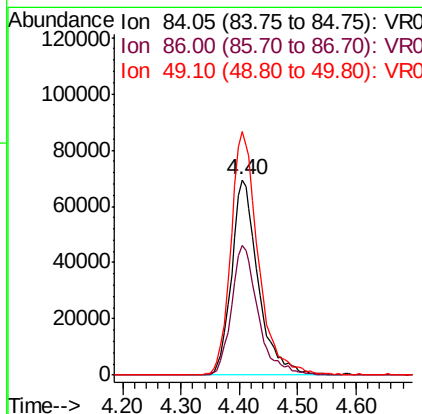
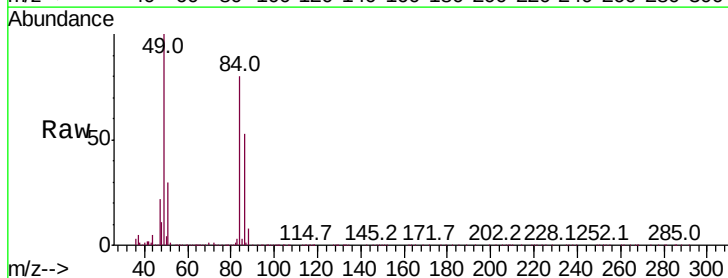
Instrument :
MSVOA_R
ClientSampleId :

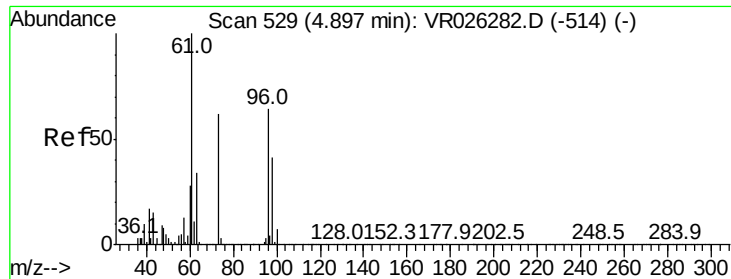
Tot Ion: 43 Resp: 45261
Ion Ratio Lower Upper
43 100
74 23.6 18.4 27.6



#16
Methylene chloride
Concen: 5.032 ug/L
RT: 4.40 min Scan# 448
Delta R.T. -0.01 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion: 84 Resp: 219640
Ion Ratio Lower Upper
84 100
86 66.0 45.8 85.0
49 124.5 88.7 164.7

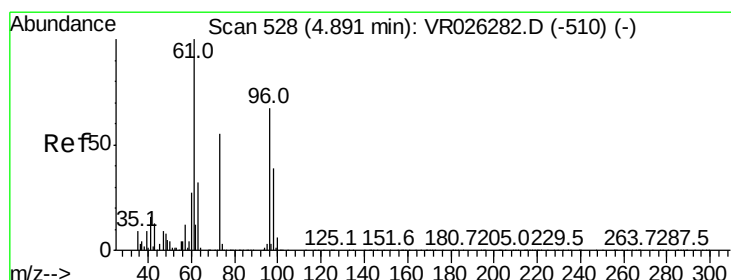
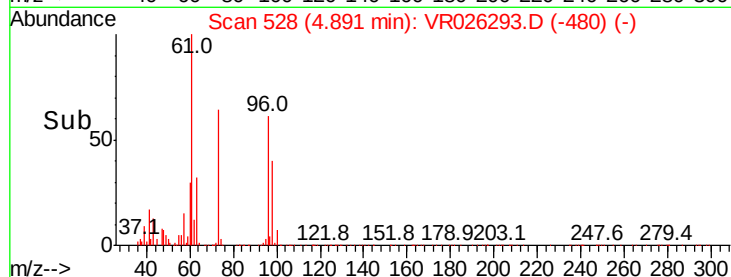
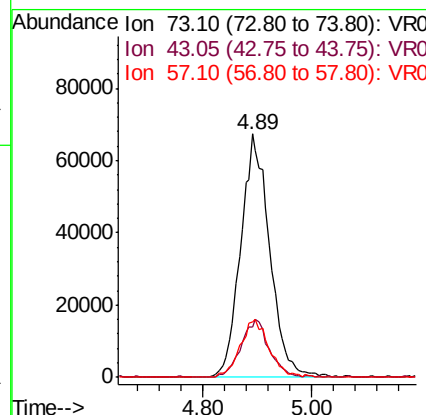
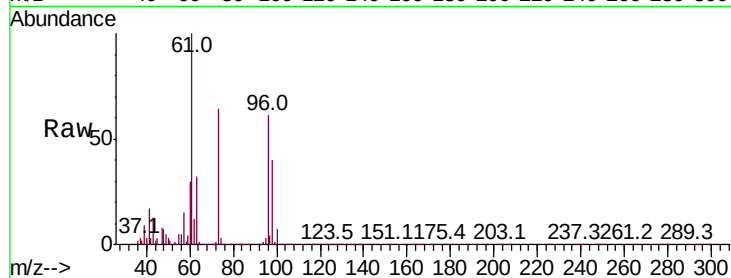




#17
Methyl tert-butyl Ether
Concen: 5.694 ug/L
RT: 4.89 min Scan# 528
Delta R.T. -0.01 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

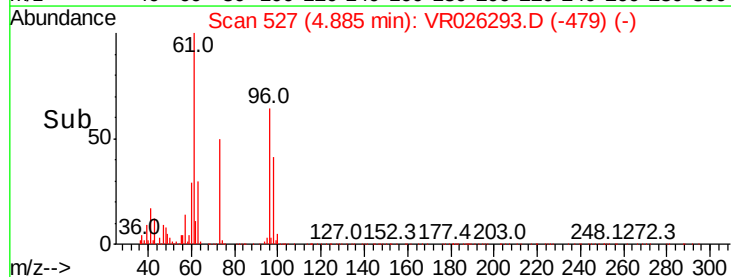
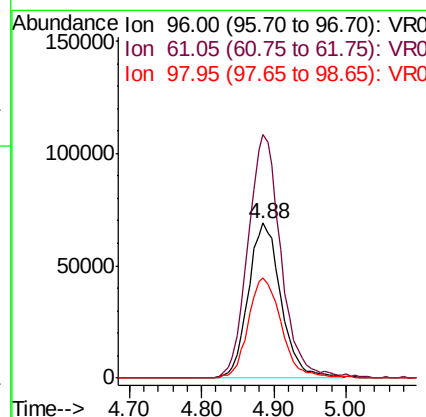
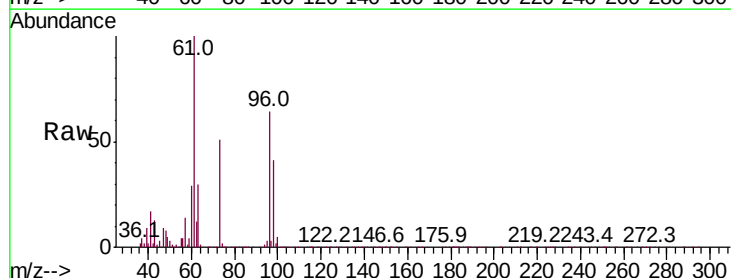
Instrument :
MSVOA_R
ClientSampleId :

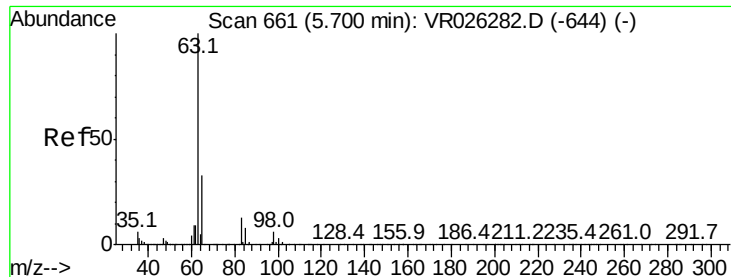
Tot Ion: 73 Resp: 249487
Ion Ratio Lower Upper
73 100
43 23.1 18.7 28.1
57 23.5 18.2 27.2



#18
trans-1,2-Dichloroethene
Concen: 4.802 ug/L
RT: 4.88 min Scan# 527
Delta R.T. -0.01 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion: 96 Resp: 217645
Ion Ratio Lower Upper
96 100
61 156.8 101.4 188.4
98 64.4 43.3 80.5

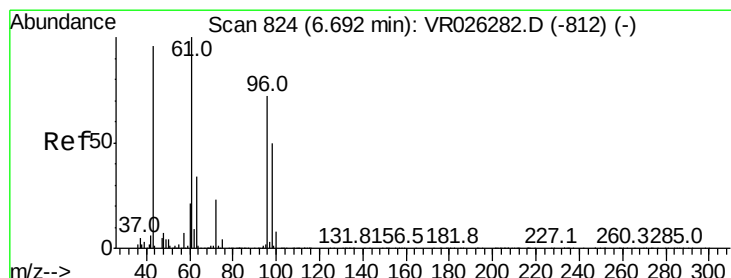
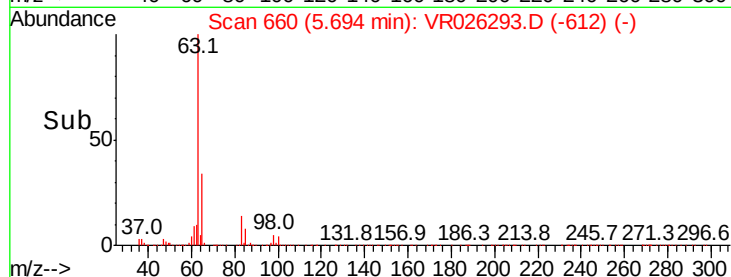
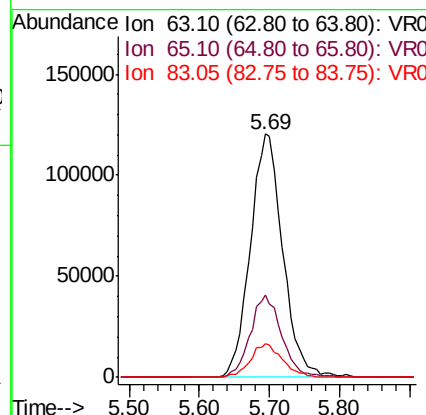
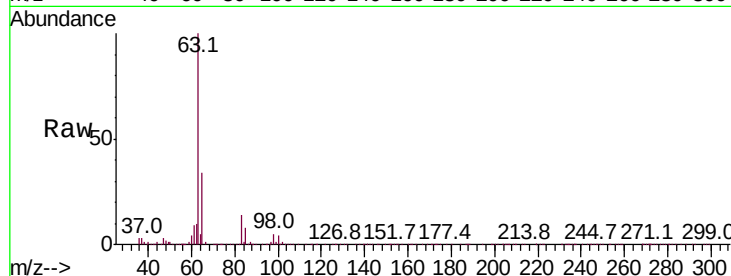




#19
 1,1-Dichloroethane
 Concen: 4.659 ug/L
 RT: 5.69 min Scan# 660
 Delta R.T. -0.01 min
 Lab File: VR026293.D
 Acq: 21 Dec 2018 21:44

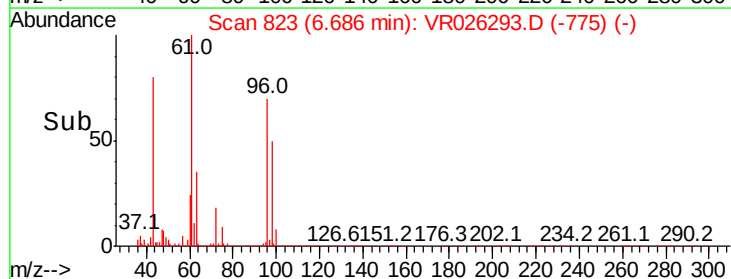
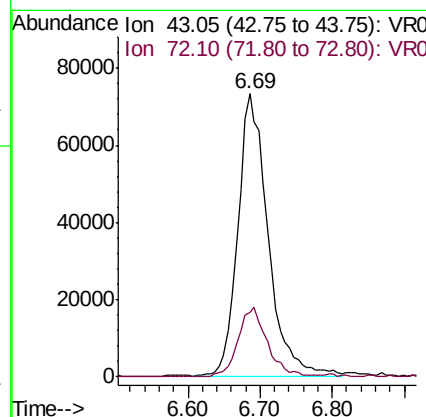
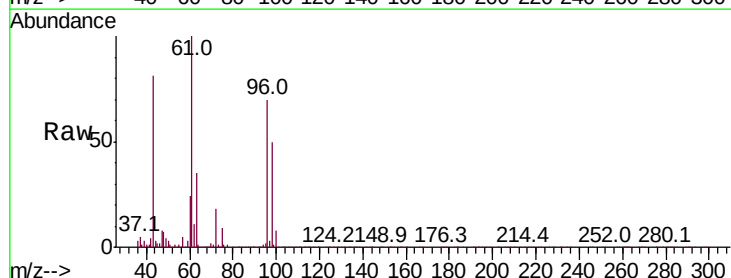
Instrument :
 MSVOA_R
 ClientSampleId :

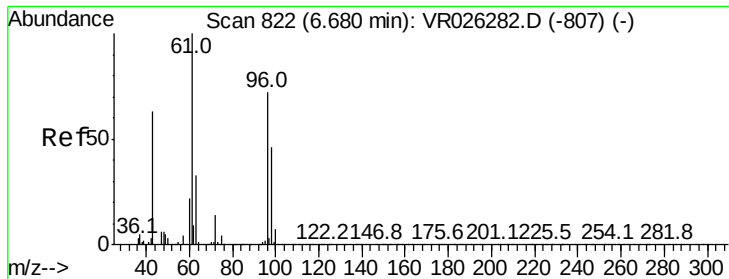
Tot Ion: 63 Resp: 386039
 Ion Ratio Lower Upper
 63 100
 65 33.6 21.6 40.0
 83 13.7 9.0 16.8



#21
 2-Butanone
 Concen: 54.420 ug/L
 RT: 6.69 min Scan# 823
 Delta R.T. -0.01 min
 Lab File: VR026293.D
 Acq: 21 Dec 2018 21:44

Tgt Ion: 43 Resp: 212181
 Ion Ratio Lower Upper
 43 100
 72 24.0 11.9 35.5



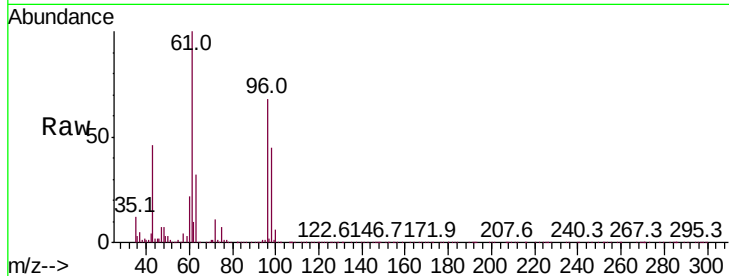


#22

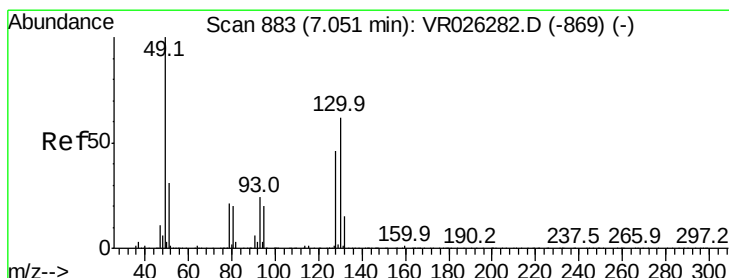
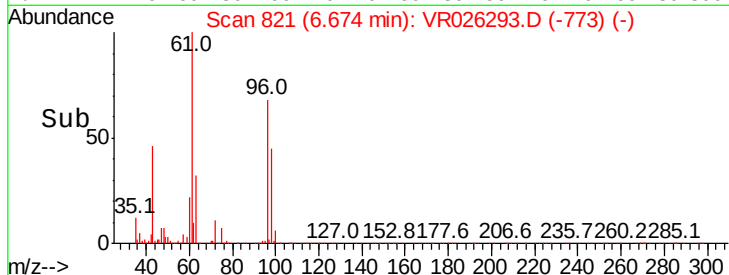
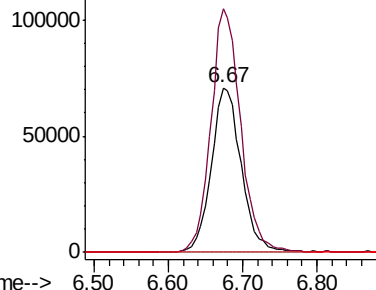
cis-1,2-Dichloroethene
Concen: 4.916 ug/L
RT: 6.67 min Scan# 821
Delta R.T. -0.01 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Instrument :
MSVOA_R
ClientSampled :

Tot Ion: 96 Resp: 199004
Ion Ratio Lower Upper
96 100
61 147.7 96.3 178.9
68 0.1 0.0 0.0#



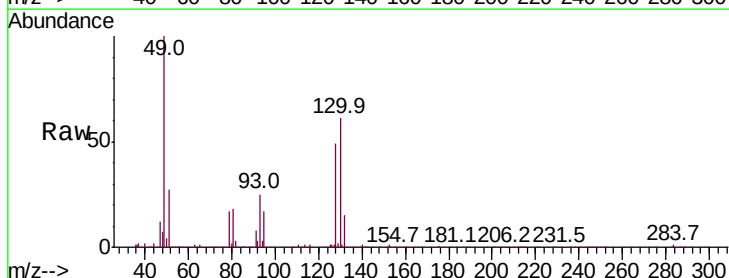
Abundance Ion 96.00 (95.70 to 96.70): VR0
Ion 61.05 (60.75 to 61.75): VR0
Ion 68.15 (67.85 to 68.85): VR0



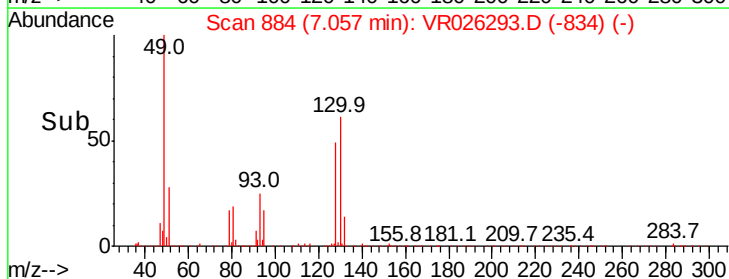
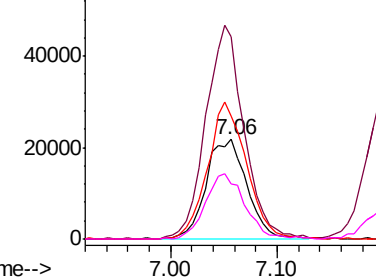
#23

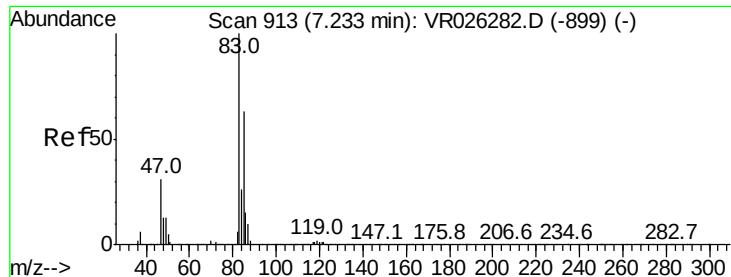
Bromochloromethane
Concen: 4.924 ug/L
RT: 7.06 min Scan# 884
Delta R.T. 0.01 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion: 128 Resp: 58703
Ion Ratio Lower Upper
128 100
49 203.4 140.9 261.7
130 123.7 92.6 172.0
51 55.8 55.1 82.7



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VR0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VR0

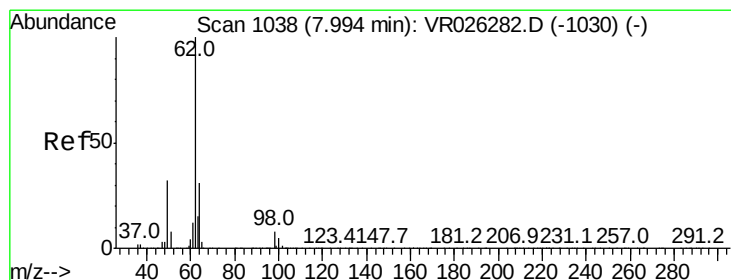
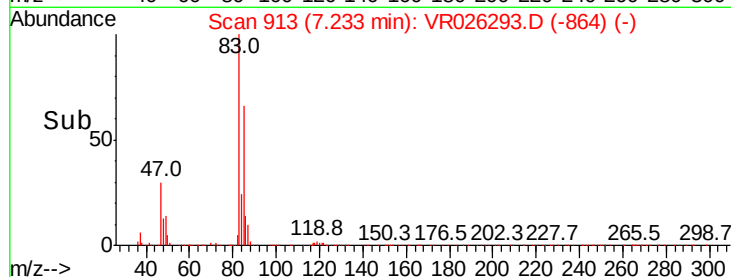
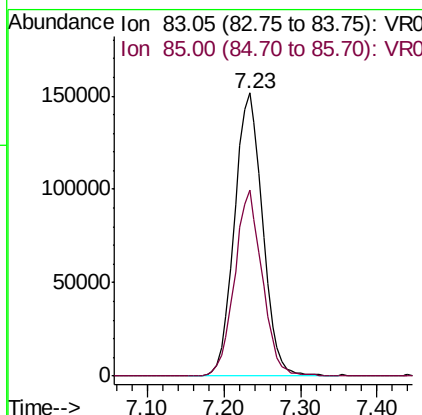
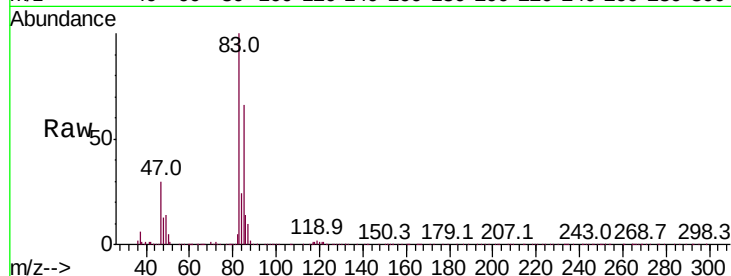




#25
Chloroform
Concen: 4.915 ug/L
RT: 7.23 min Scan# 913
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

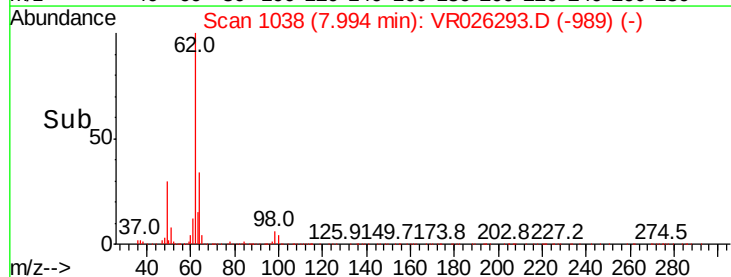
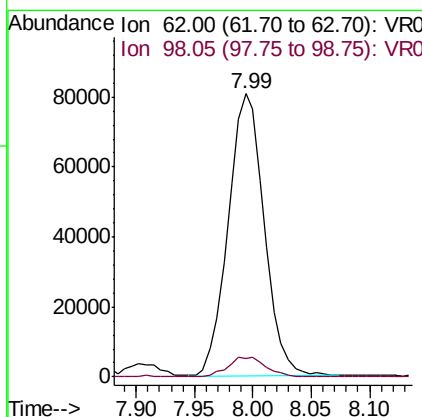
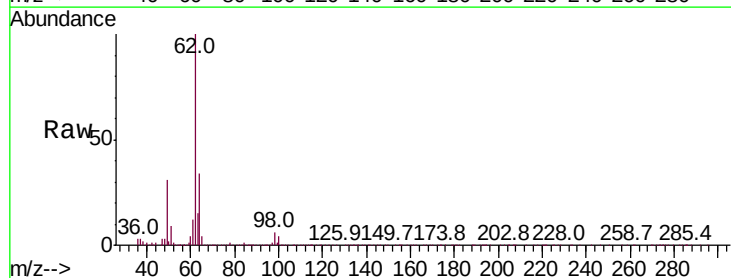
Instrument :
MSVOA_R
ClientSampleId :

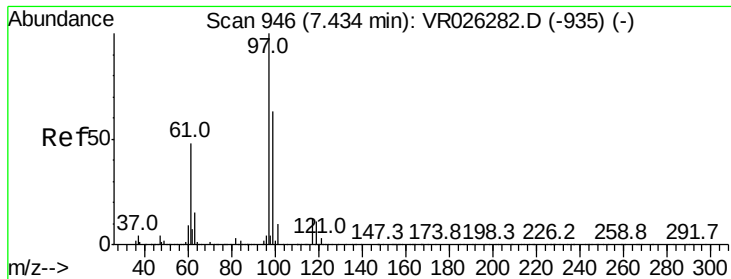
Tot Ion: 83 Resp: 386125
Ion Ratio Lower Upper
83 100
85 65.6 47.0 87.4



#27
1,2-Dichloroethane
Concen: 5.118 ug/L
RT: 7.99 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion: 62 Resp: 173375
Ion Ratio Lower Upper
62 100
98 6.4 5.7 8.5

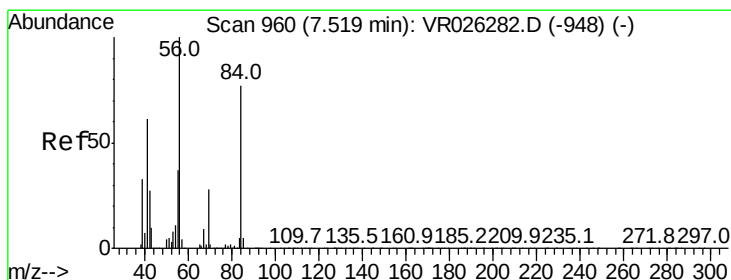
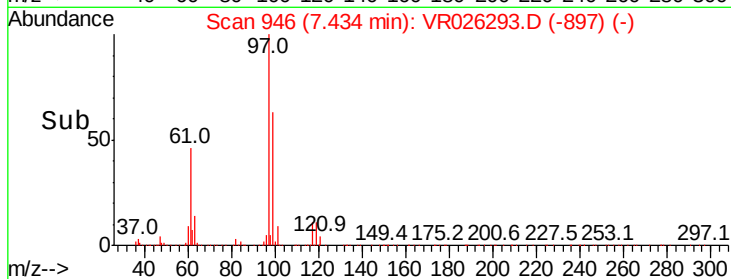
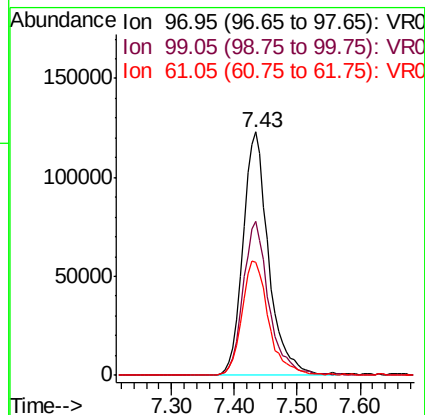
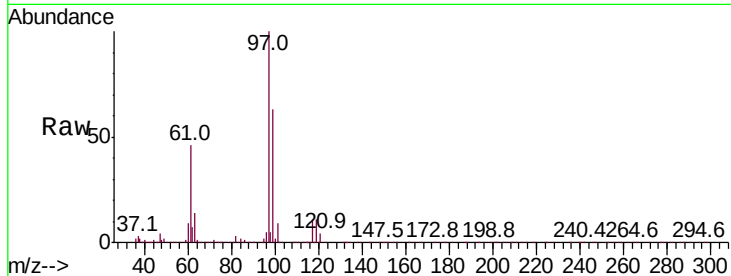




#29
1,1,1-Trichloroethane
Concen: 4.447 ug/L
RT: 7.43 min Scan# 946
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

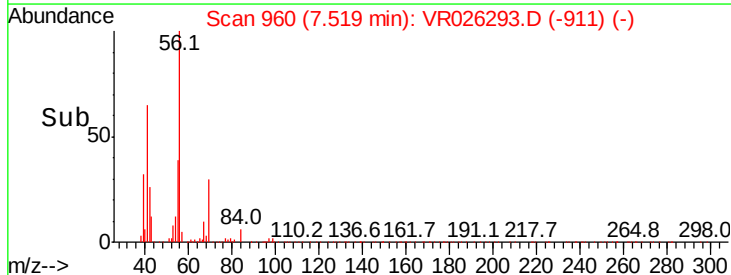
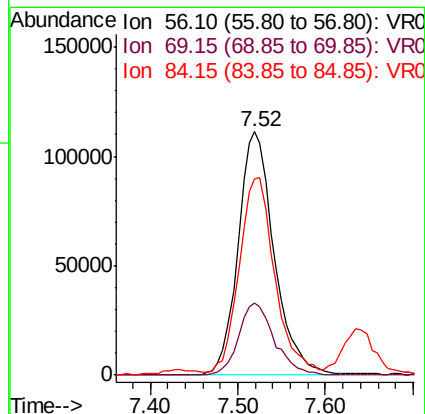
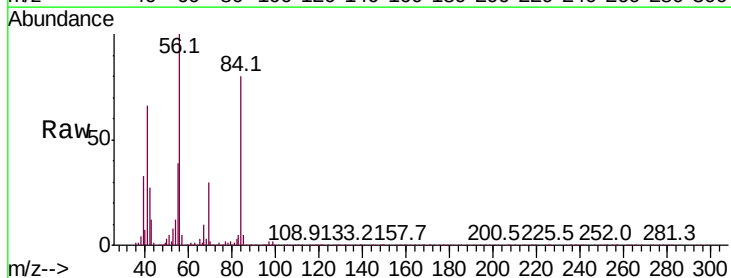
Instrument :
MSVOA_R
ClientSampleId :

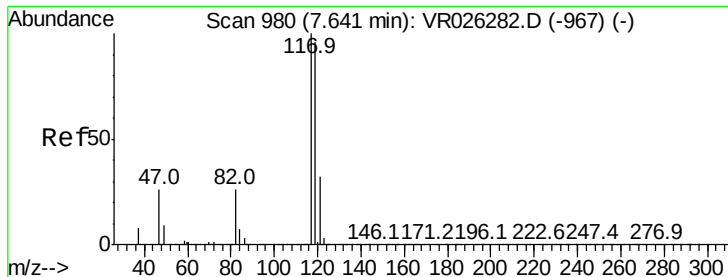
Tot Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.2	75.4
61	48.9	38.0	57.0



#30
Cyclohexane
Concen: 4.594 ug/L
RT: 7.52 min Scan# 960
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.0	36.0
84	80.2	64.5	96.7





#31

Carbon tetrachloride

Concen: 4.316 ug/L

RT: 7.64 min Scan# 980

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

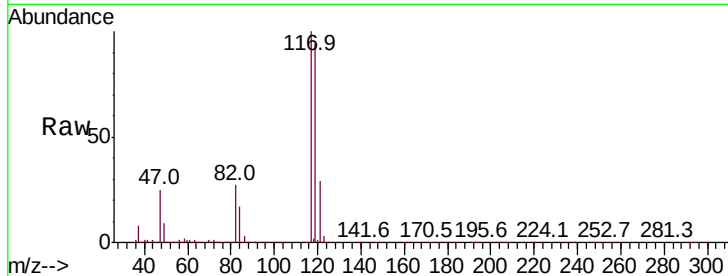
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion:117 Resp: 306795

Ion Ratio Lower Upper

117 100

119 96.9 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

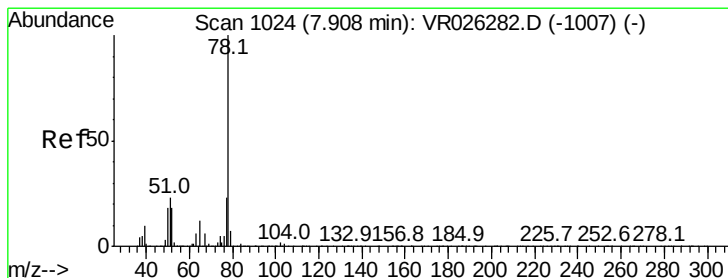
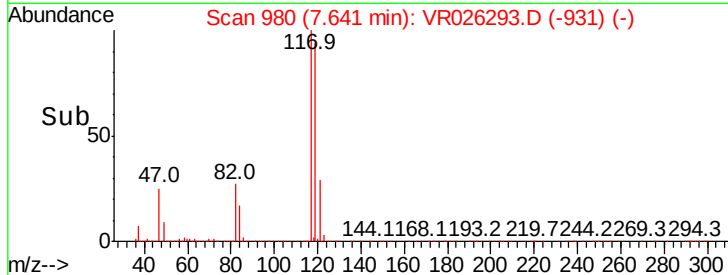
7.64

100000

50000

0

Time-->



#33

Benzene

Concen: 4.699 ug/L

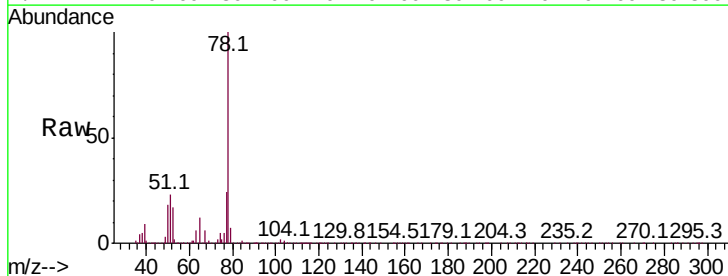
RT: 7.91 min Scan# 1024

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Tgt Ion: 78 Resp: 881969



Abundance Ion 78.10 (77.80 to 78.80): VR0

7.91

400000

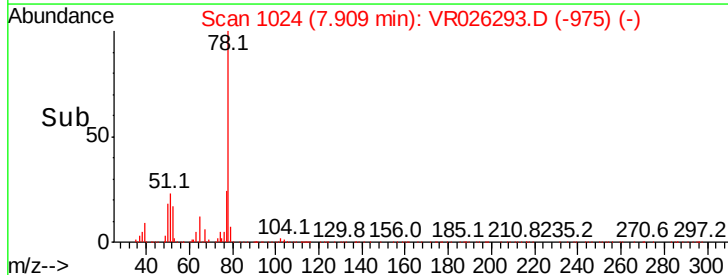
300000

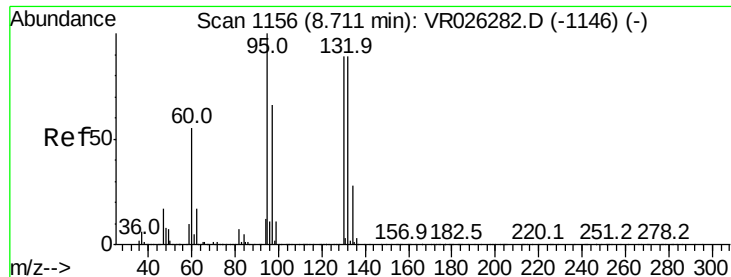
200000

100000

0

Time-->





#34

Trichloroethene

Concen: 4.475 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

ClientSampleId :

Tot Ion: 95 Resp: 221446

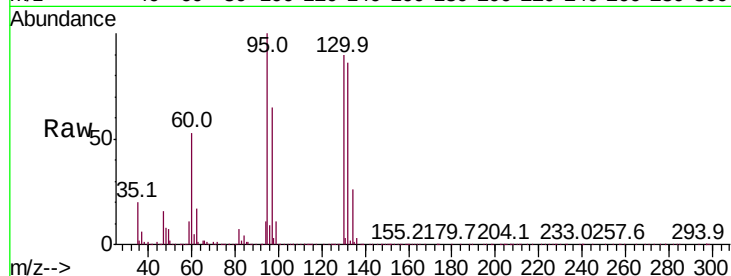
Ion Ratio Lower Upper

95 100

97 64.5 44.8 83.2

132 85.8 61.7 114.5

130 89.7 63.3 117.5

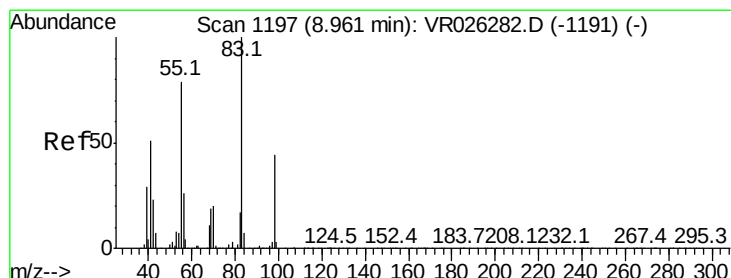
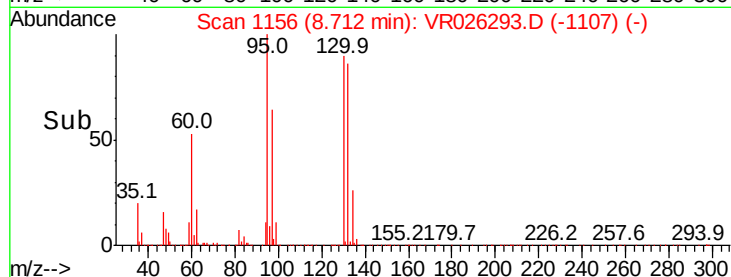
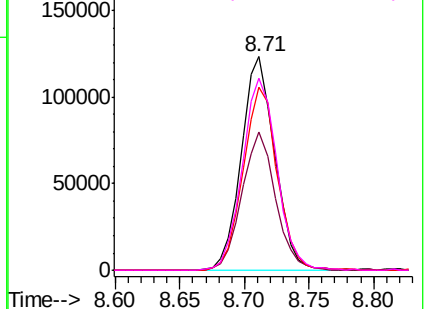


Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.499 ug/L

RT: 8.95 min Scan# 1196

Delta R.T. -0.01 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

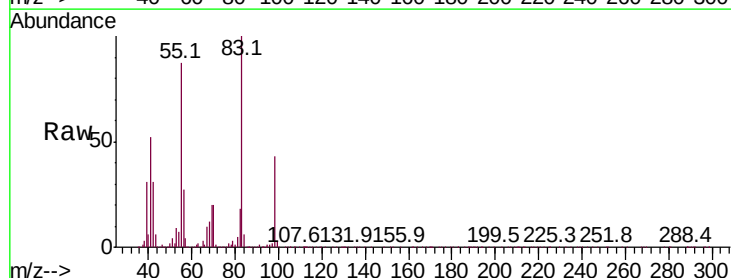
Tgt Ion: 83 Resp: 322778

Ion Ratio Lower Upper

83 100

55 85.5 66.6 99.8

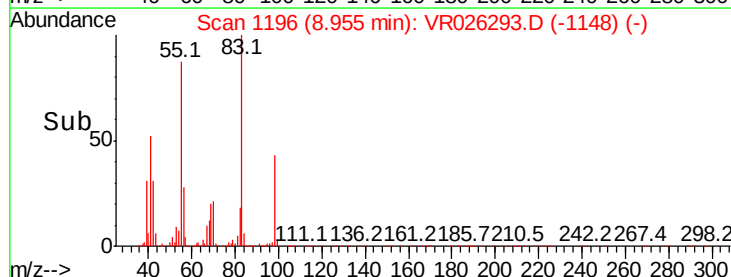
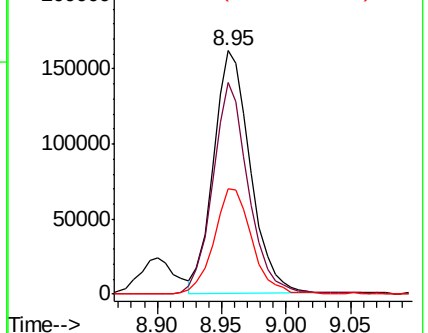
98 45.3 35.5 53.3

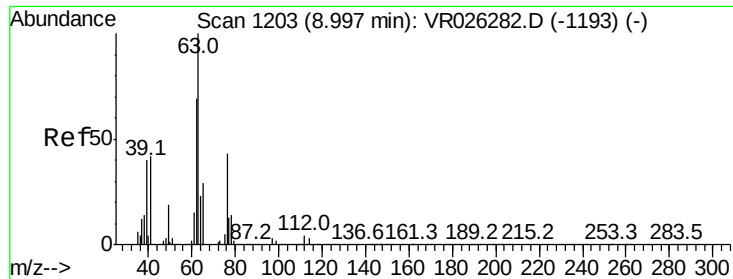


Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0

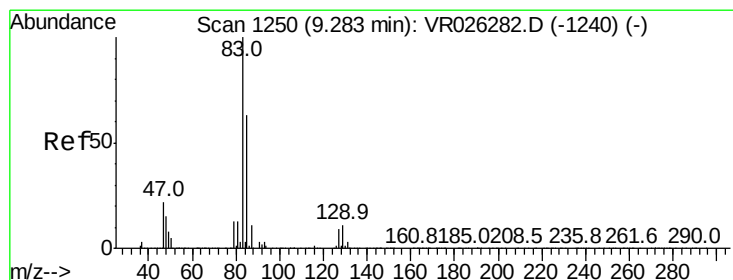
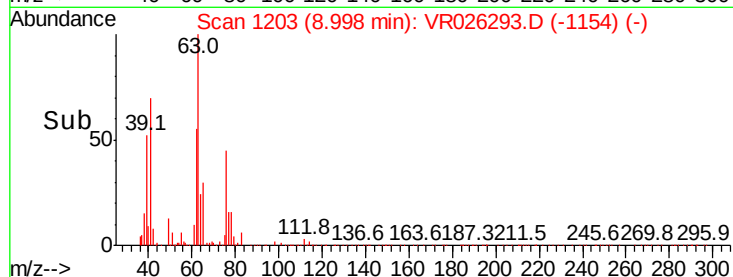
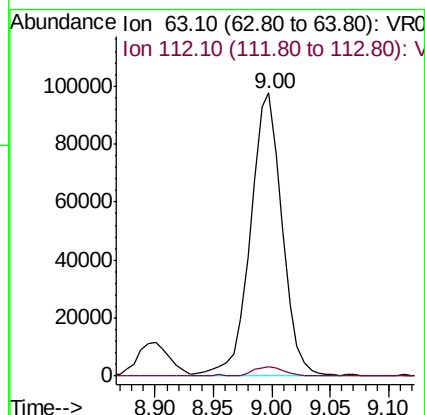
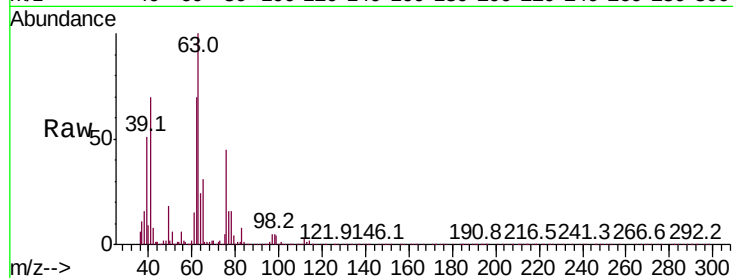




#37
1,2-Dichloropropane
Concen: 4.781 ug/L
RT: 9.00 min Scan# 1203
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

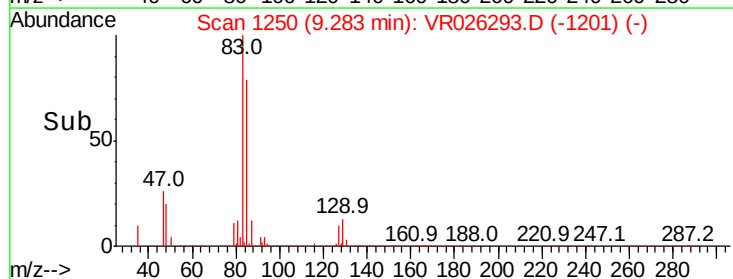
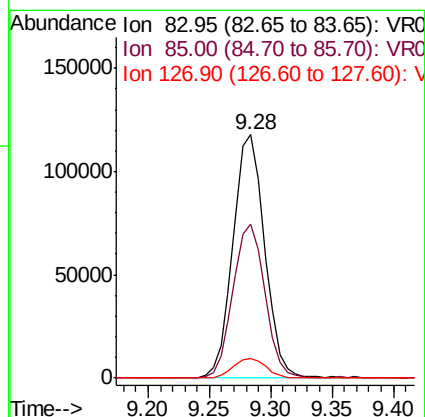
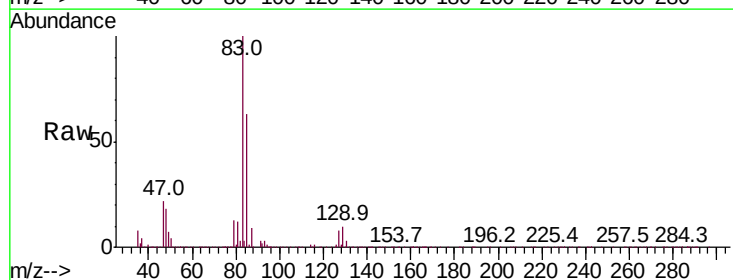
Instrument :
MSVOA_R
ClientSampled :

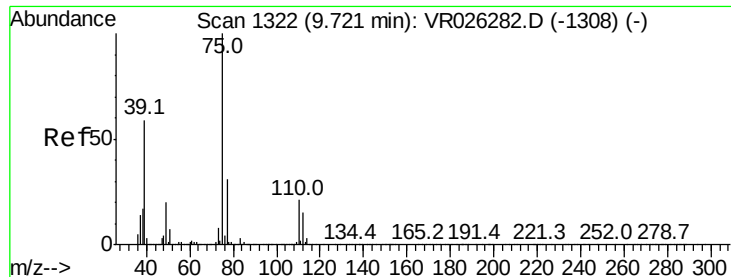
Tot Ion: 63 Resp: 183743
Ion Ratio Lower Upper
63 100
112 3.2 3.0 4.6



#38
Bromodichloromethane
Concen: 4.836 ug/L
RT: 9.28 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion: 83 Resp: 210537
Ion Ratio Lower Upper
83 100
85 63.2 44.0 81.6
127 8.0 6.6 9.8

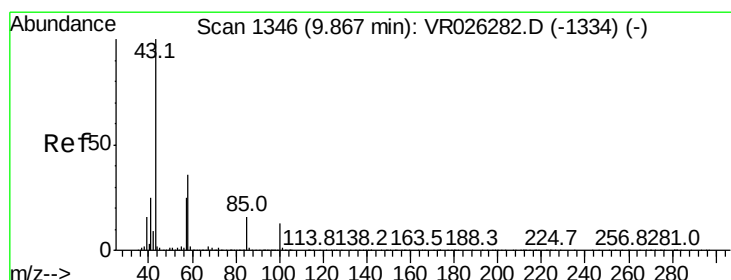
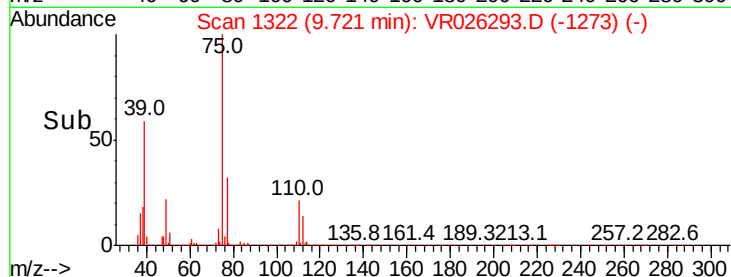
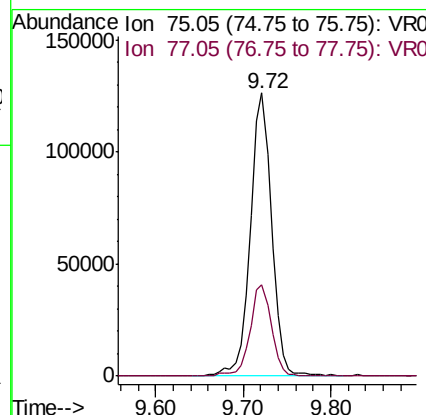
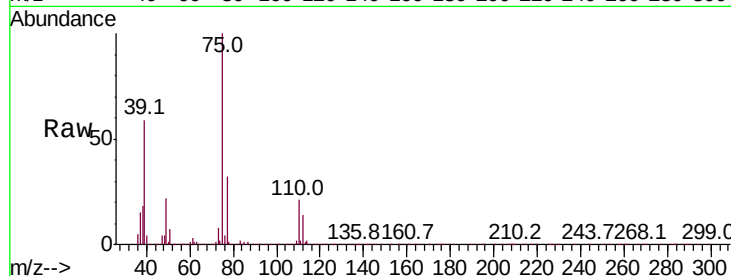




#39
 cis-1,3-Dichloropropene
 Concen: 4.992 ug/L
 RT: 9.72 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VR026293.D
 Acq: 21 Dec 2018 21:44

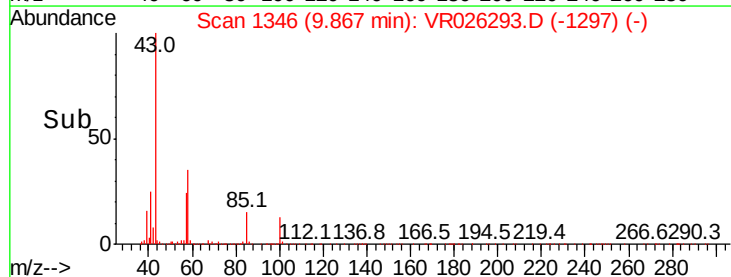
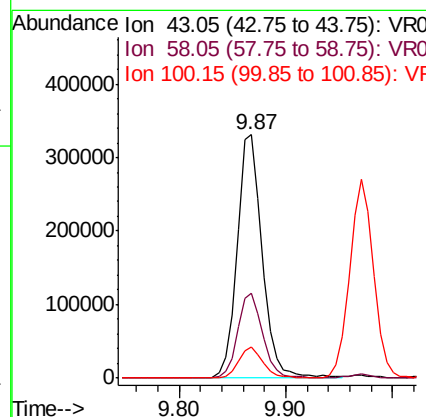
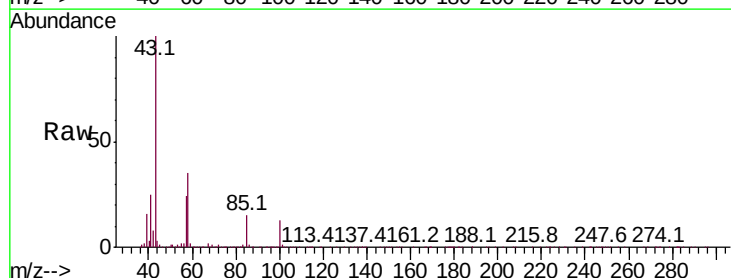
Instrument :
 MSVOA_R
 ClientSampleId :

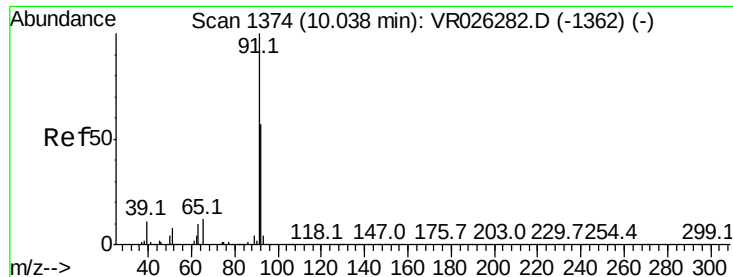
Tot Ion: 75 Resp: 211037
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 59.030 ug/L
 RT: 9.87 min Scan# 1346
 Delta R.T. 0.00 min
 Lab File: VR026293.D
 Acq: 21 Dec 2018 21:44

Tgt Ion: 43 Resp: 545959
 Ion Ratio Lower Upper
 43 100
 58 34.7 28.0 42.0
 100 12.4 9.8 14.6





#42

Toluene

Concen: 4.845 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

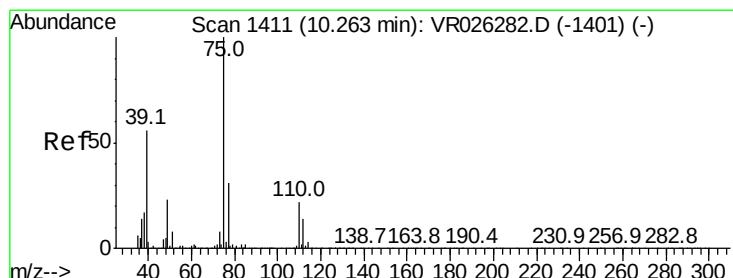
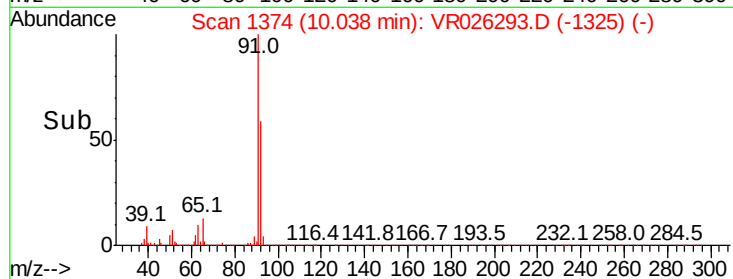
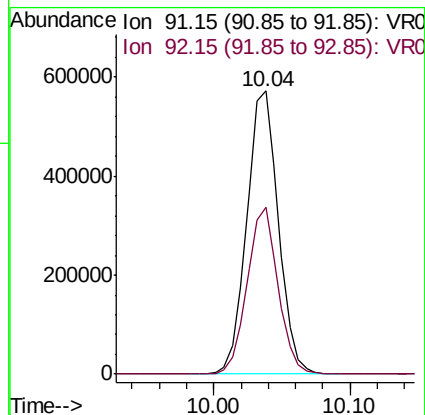
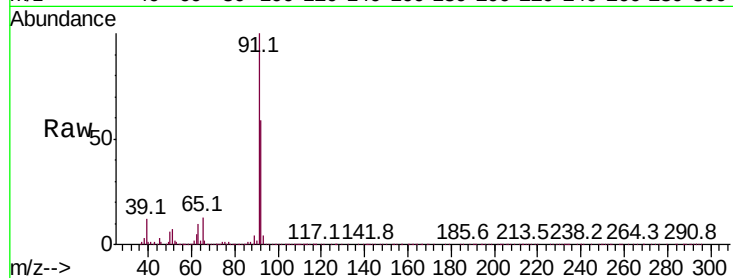
ClientSampleId :

Tot Ion: 91 Resp: 929451

Ion Ratio Lower Upper

91 100

92 58.9 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 5.059 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VR026293.D

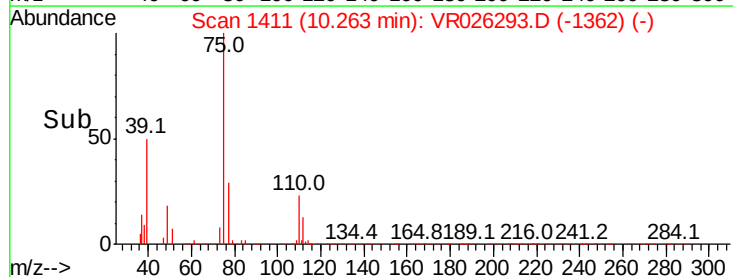
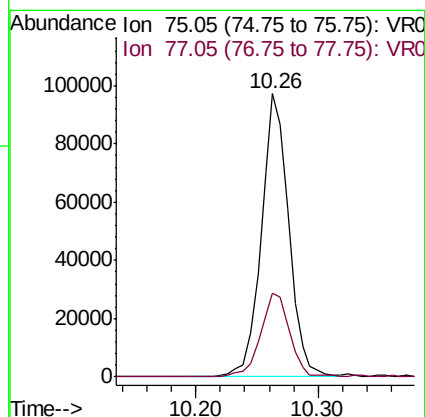
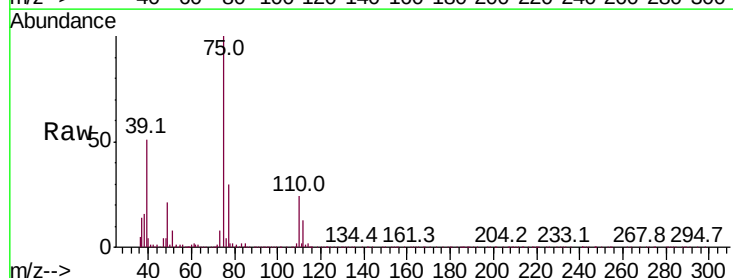
Acq: 21 Dec 2018 21:44

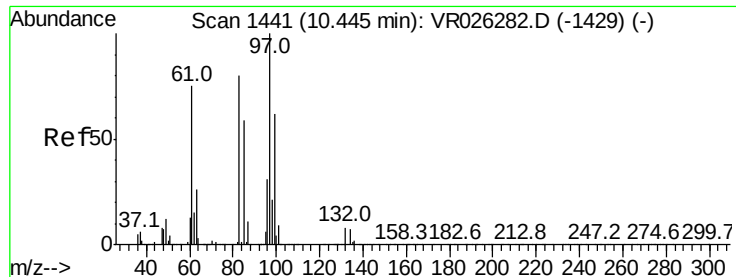
Tgt Ion: 75 Resp: 151985

Ion Ratio Lower Upper

75 100

77 29.5 21.2 39.4





#45

1,1,2-Trichloroethane

Concen: 4.935 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

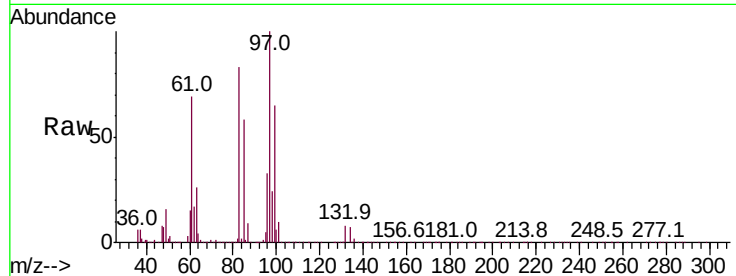
Instrument :

MSVOA_R

ClientSampleId :

Tot Ion: 97 Resp: 78726

Ion	Ratio	Lower	Upper
97	100		
99	64.6	45.0	83.6
83	83.2	57.9	107.5
85	57.8	38.9	72.2



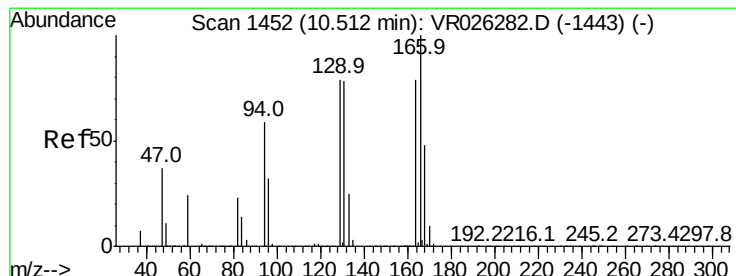
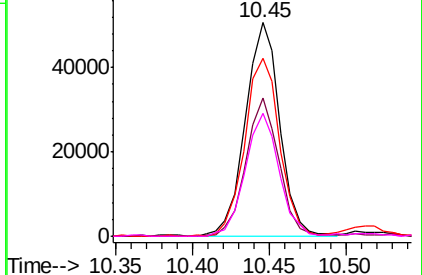
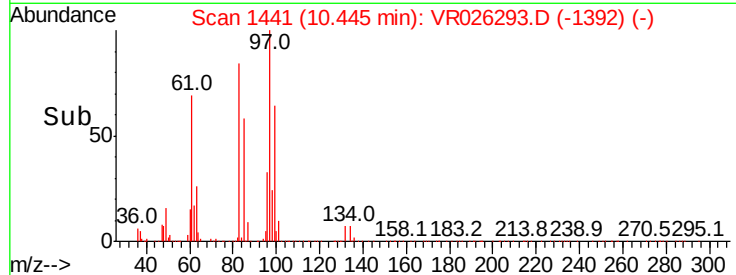
Abundance

Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0



#47

Tetrachloroethene

Concen: 4.314 ug/L

RT: 10.51 min Scan# 1452

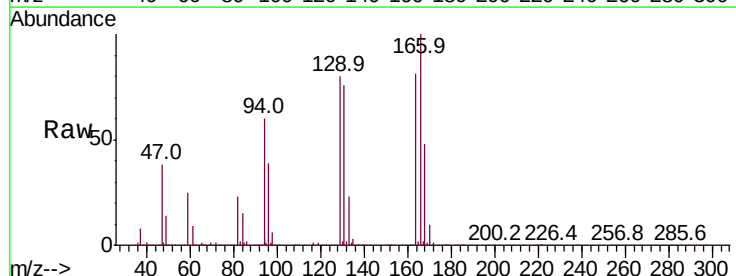
Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Tgt Ion: 164 Resp: 162398

Ion	Ratio	Lower	Upper
164	100		
129	98.8	65.7	122.1
131	93.3	63.7	118.3
166	123.0	83.4	155.0



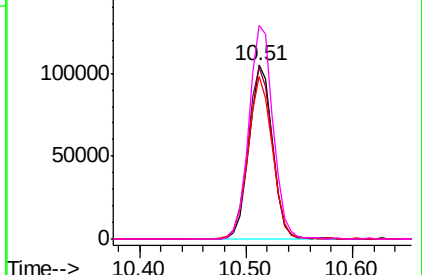
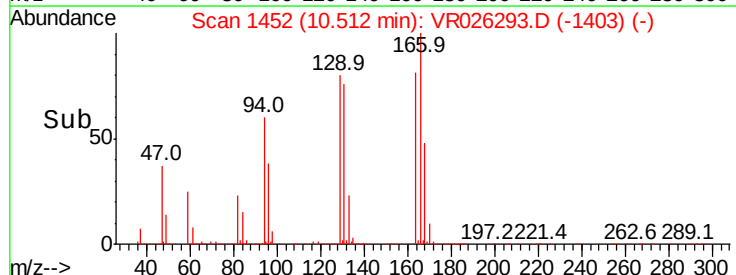
Abundance

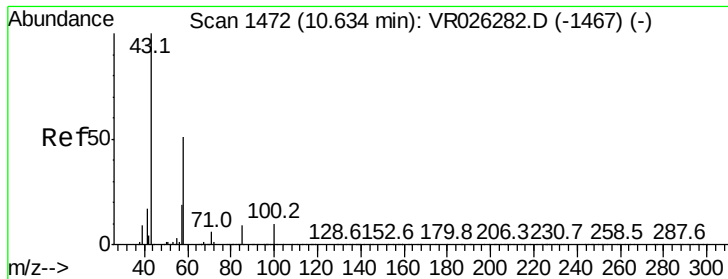
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

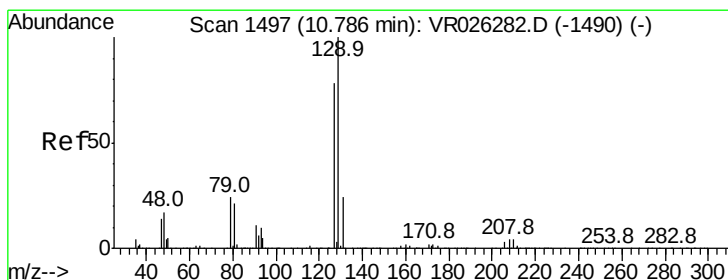
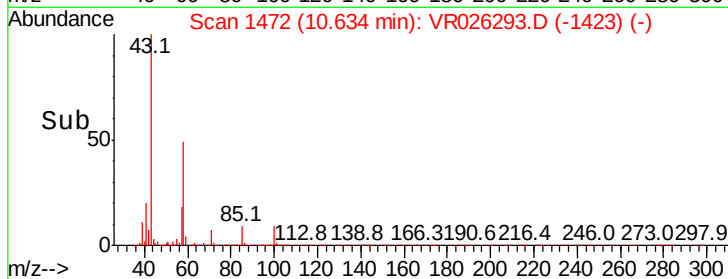
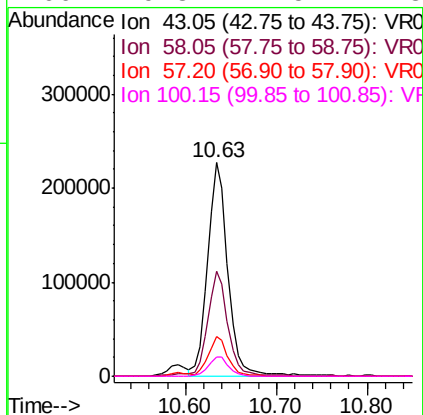
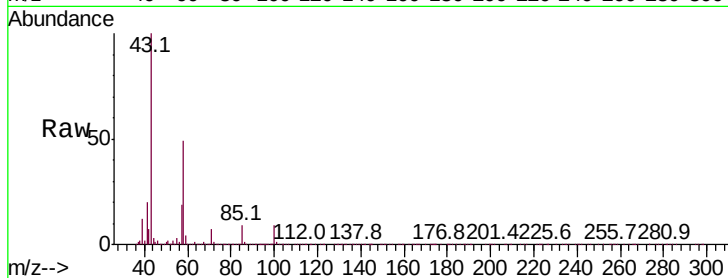




#48
2-Hexanone
Concen: 59.590 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

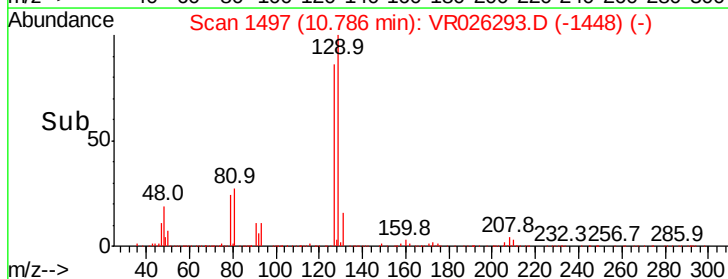
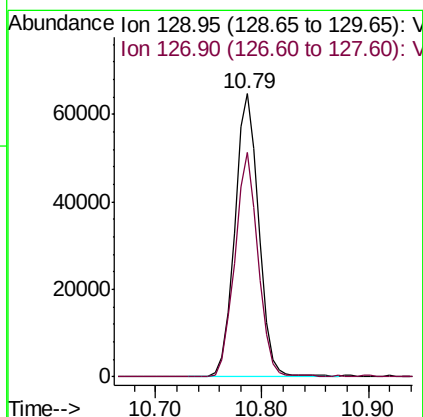
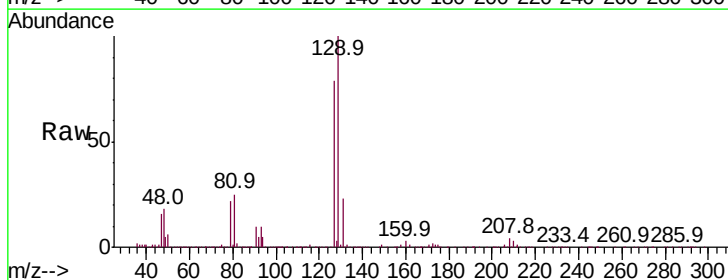
Instrument :
MSVOA_R
ClientSampleId :

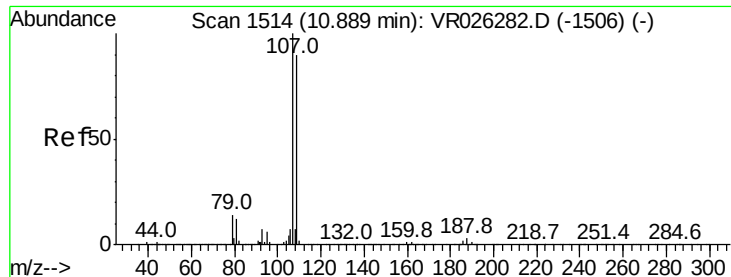
Tot Ion:	43	Resp:	355248
Ion	Ratio	Lower	Upper
43	100		
58	50.5	40.5	60.7
57	17.7	14.2	21.4
100	9.8	7.5	11.3



#49
Dibromochloromethane
Concen: 5.035 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion:	129	Resp:	101965
Ion	Ratio	Lower	Upper
129	100		
127	79.4	52.6	97.6

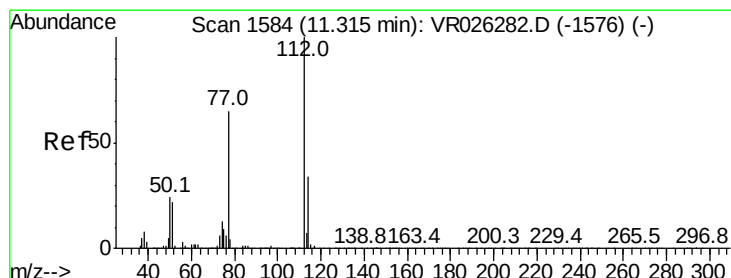
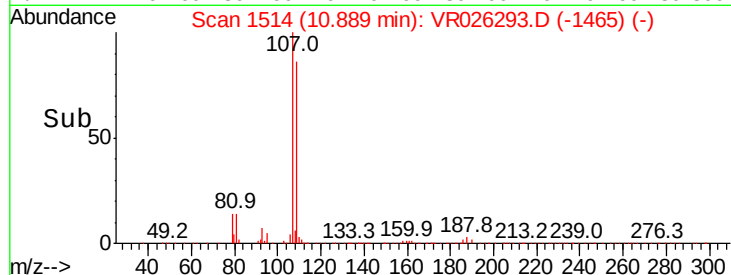
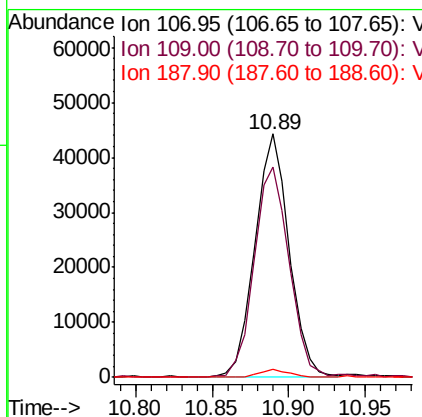
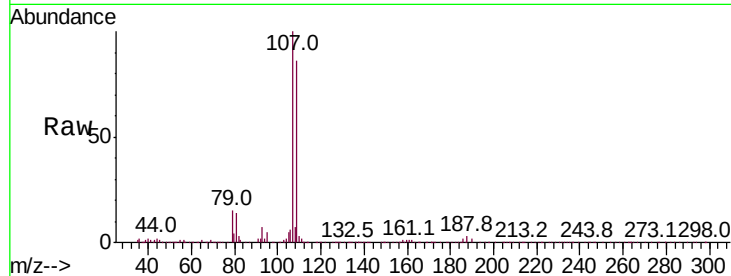




#50
1,2-Dibromoethane
Concen: 5.100 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

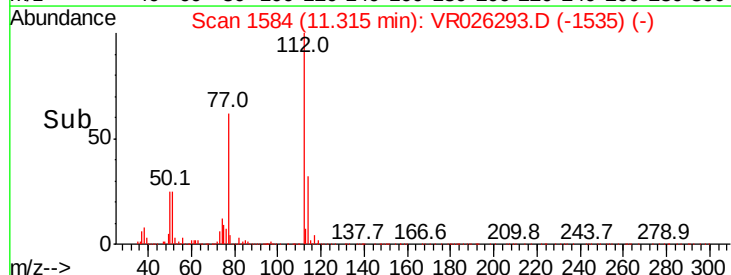
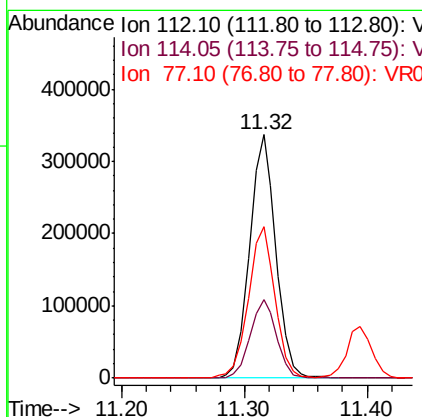
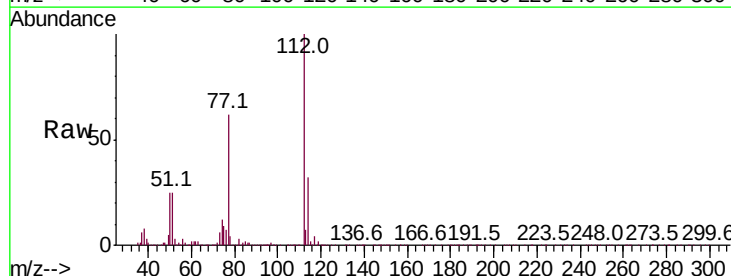
Instrument :
MSVOA_R
ClientSampleId :

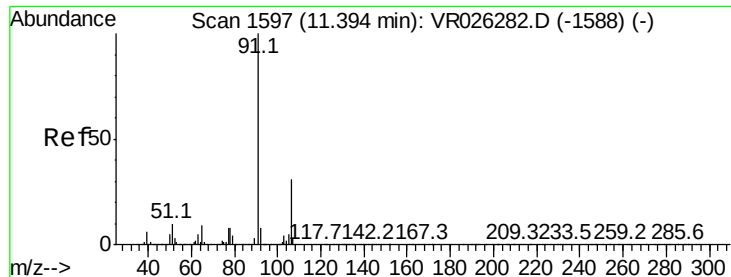
Tot Ion:107 Resp: 68539
Ion Ratio Lower Upper
107 100
109 86.2 62.3 115.7
188 3.3 3.0 4.6



#51
Chlorobenzene
Concen: 4.676 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion:112 Resp: 501849
Ion Ratio Lower Upper
112 100
114 32.1 21.7 40.3
77 62.3 49.4 74.2





#52

Ethylbenzene

Concen: 4.865 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

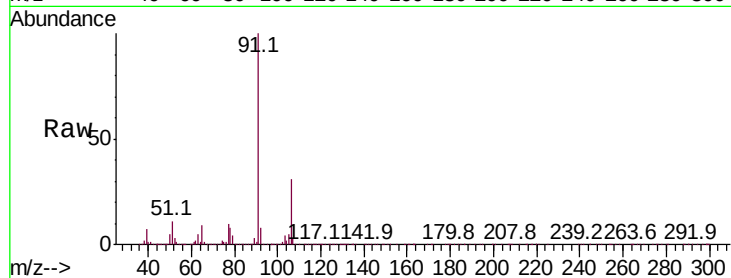
ClientSampled :

Tot Ion: 91 Resp: 1053571

Ion Ratio Lower Upper

91 100

106 30.6 21.4 39.8



Abundance Ion 91.15 (90.85 to 91.85): VR0

Ion 106.15 (105.85 to 106.85): V

800000

600000

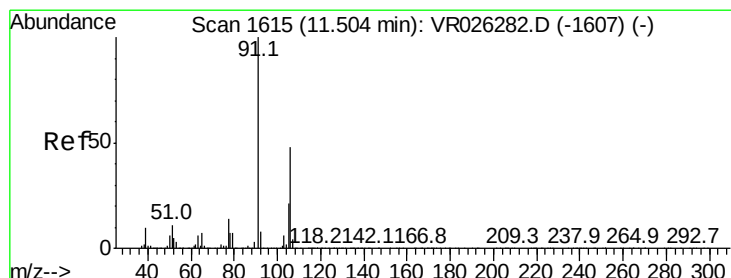
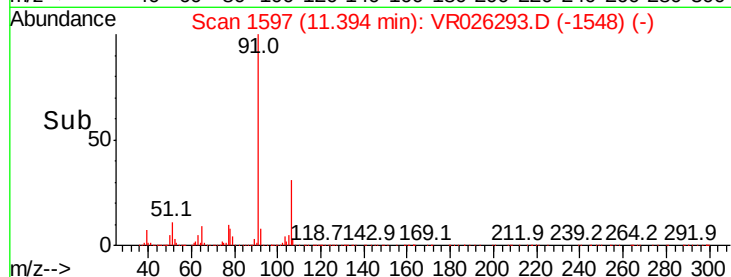
400000

200000

0

11.30 11.40

Time-->



#53

m,p-Xylene

Concen: 4.798 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VR026293.D

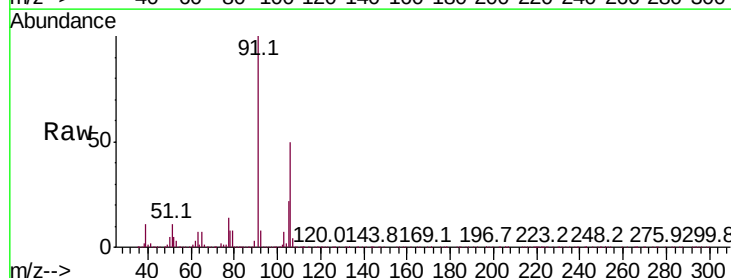
Acq: 21 Dec 2018 21:44

Tgt Ion: 106 Resp: 388604

Ion Ratio Lower Upper

106 100

91 199.1 145.9 271.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0

800000

600000

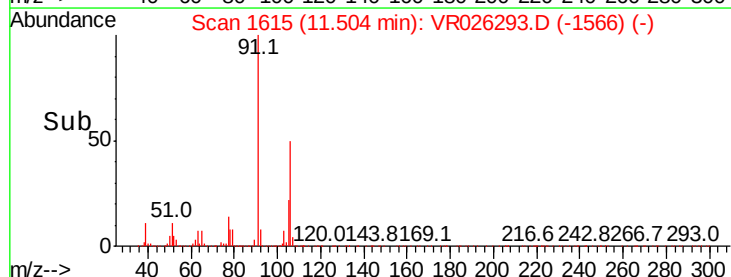
400000

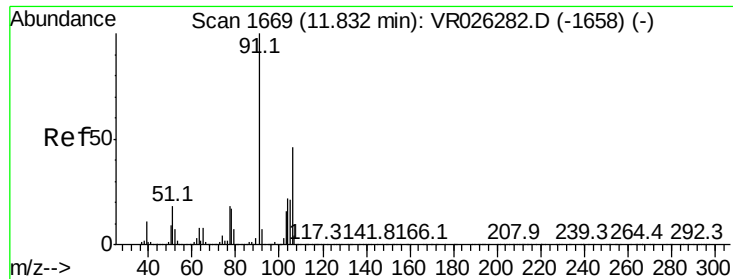
200000

0

11.40 11.50 11.60

Time-->

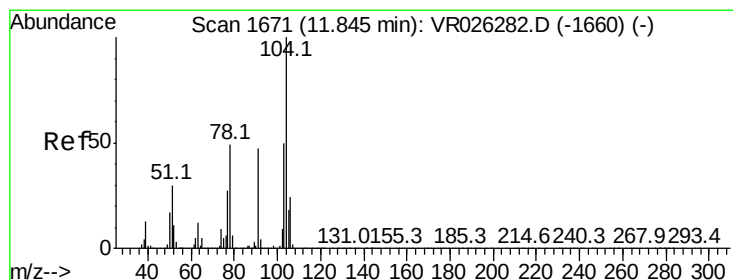
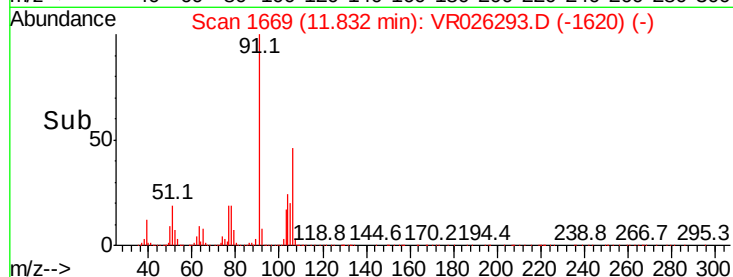
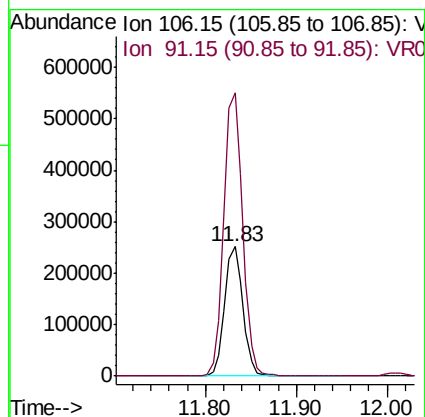
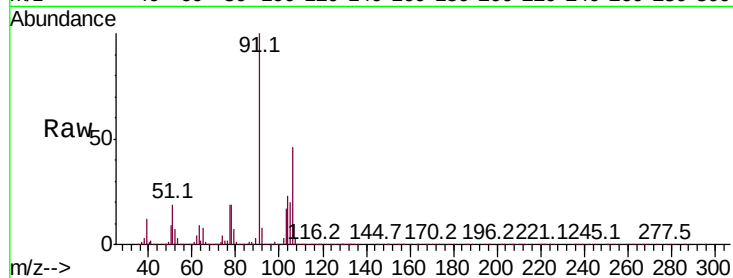




#54
o-Xylene
Concen: 5.039 ug/L
RT: 11.83 min Scan# 1669
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

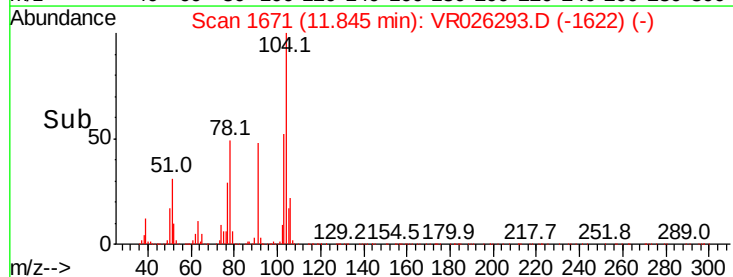
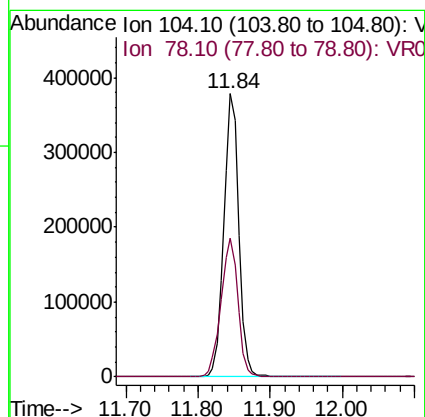
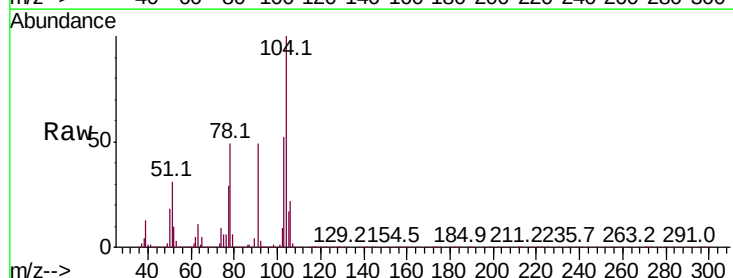
Instrument :
MSVOA_R
ClientSampleId :

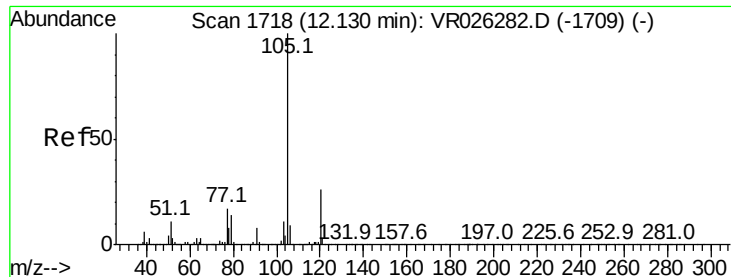
Tot Ion:106 Resp: 355583
Ion Ratio Lower Upper
106 100
91 218.9 150.4 279.4



#55
Styrene
Concen: 5.126 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VR026293.D
Acq: 21 Dec 2018 21:44

Tgt Ion:104 Resp: 546144
Ion Ratio Lower Upper
104 100
78 49.0 34.6 64.2





#56

Isopropylbenzene

Concen: 5.122 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

ClientSampled :

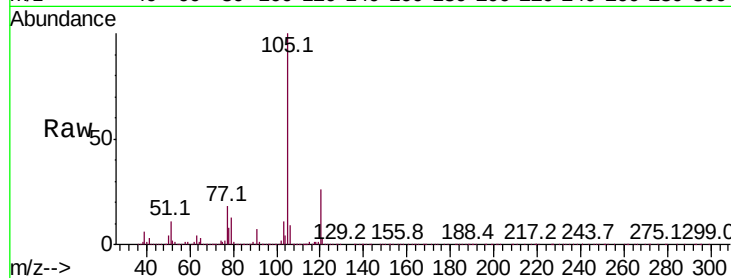
Tot Ion:105 Resp: 1027748

Ion Ratio Lower Upper

105 100

120 25.9 21.2 31.8

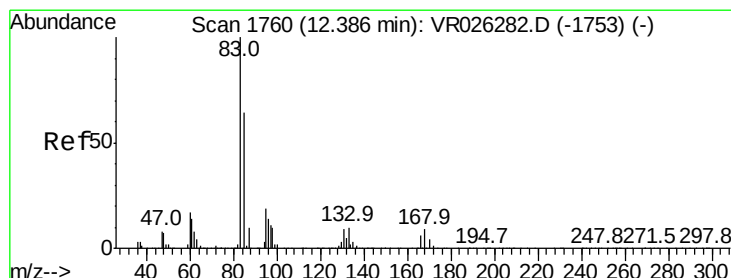
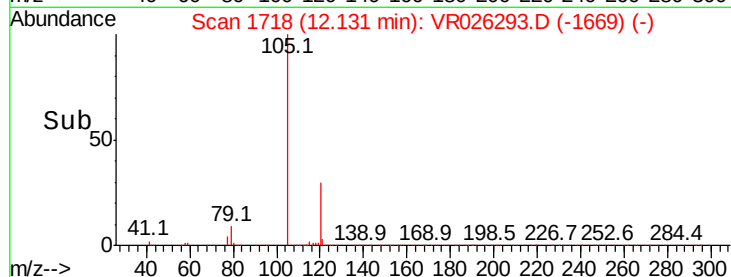
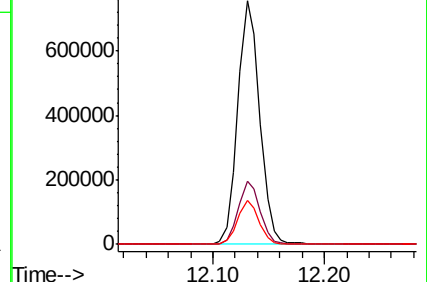
77 17.5 13.6 20.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.346 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

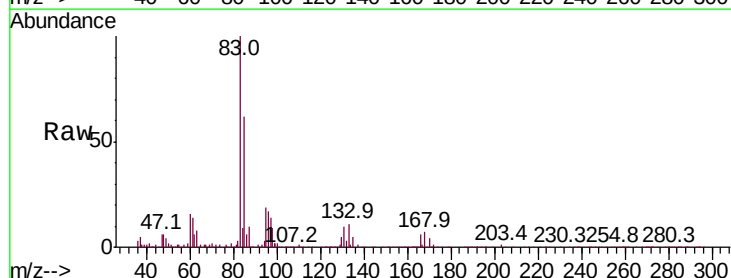
Tgt Ion: 83 Resp: 75317

Ion Ratio Lower Upper

83 100

85 62.1 46.9 87.1

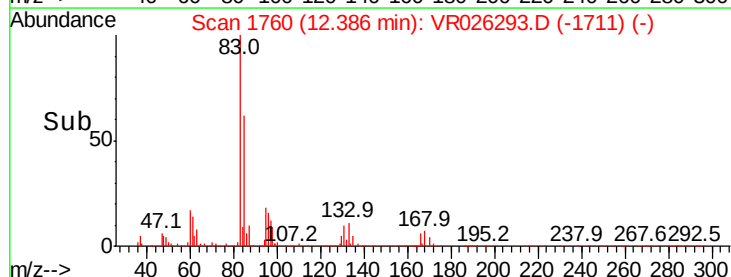
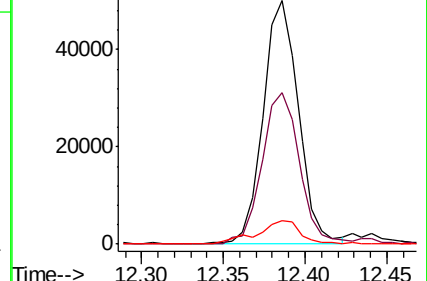
131 9.8 7.7 11.5

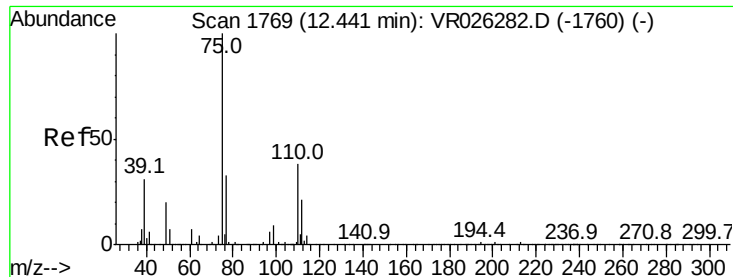


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.337 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. -0.01 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

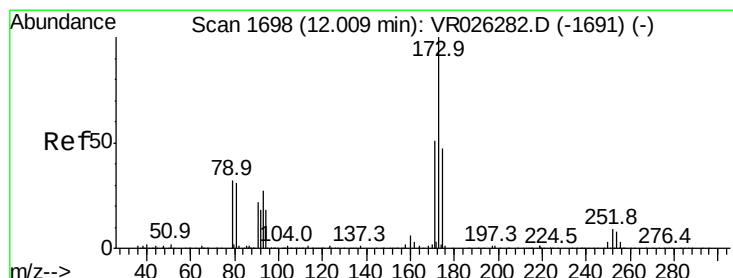
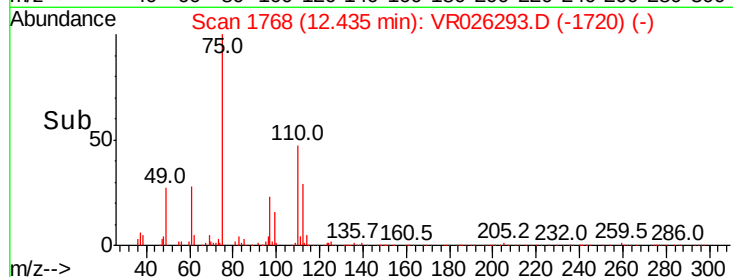
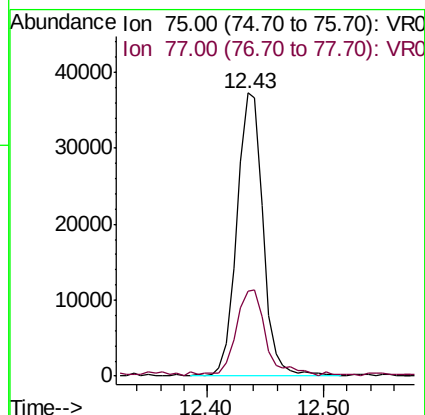
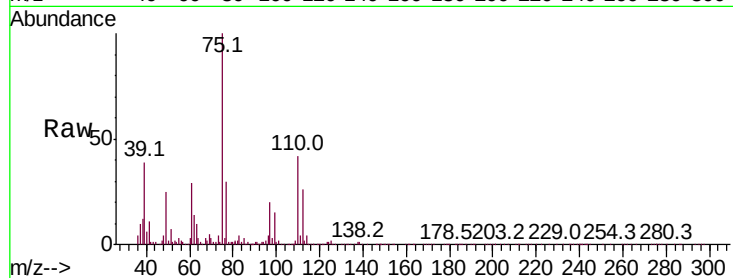
ClientSampleId :

Tot Ion: 75 Resp: 58279

Ion Ratio Lower Upper

75 100

77 33.7 27.0 40.6



#61

Bromoform

Concen: 4.925 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

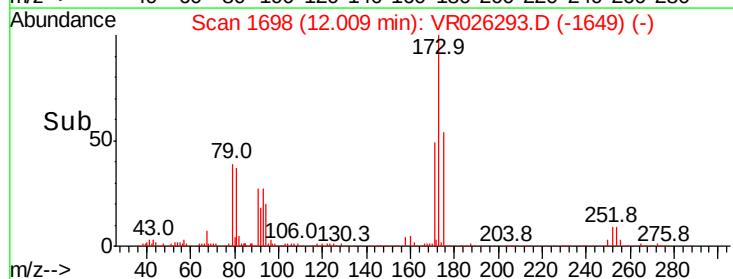
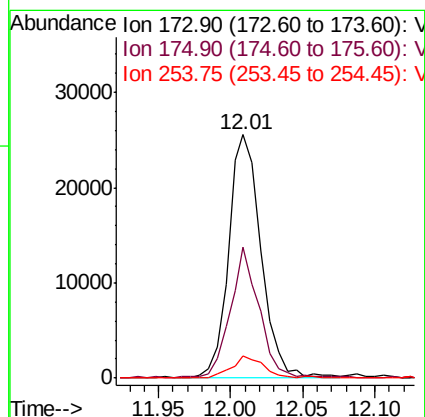
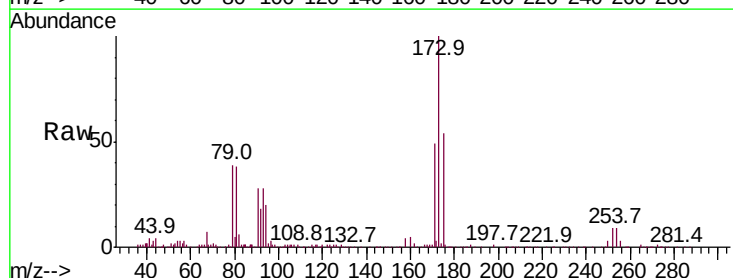
Tgt Ion: 173 Resp: 40325

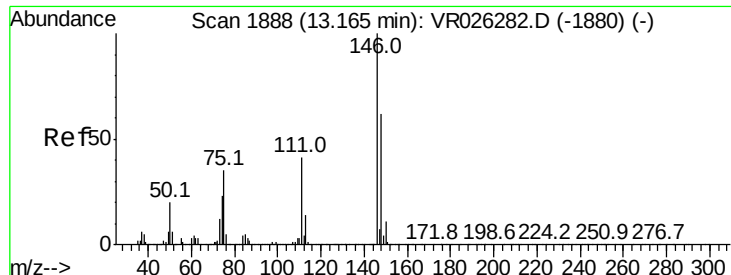
Ion Ratio Lower Upper

173 100

175 48.2 40.9 61.3

254 8.9 8.5 12.7





#62

1,3-Dichlorobenzene

Concen: 5.002 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. 0.00 min

Lab File: VR026293.D

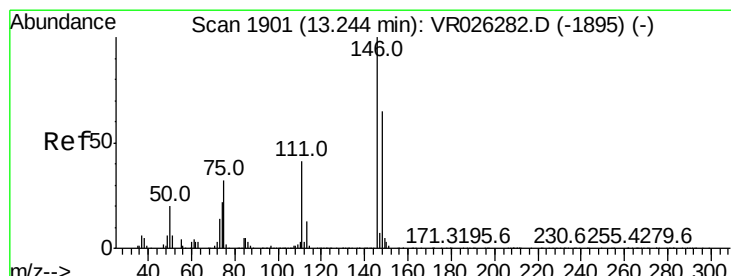
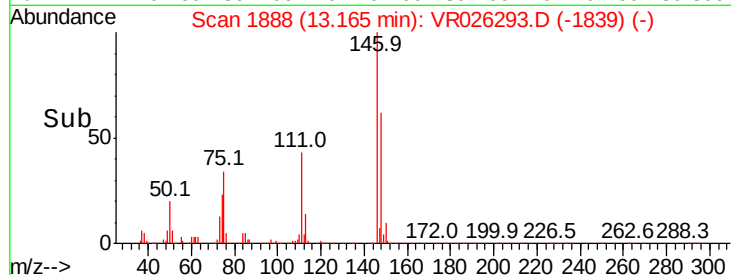
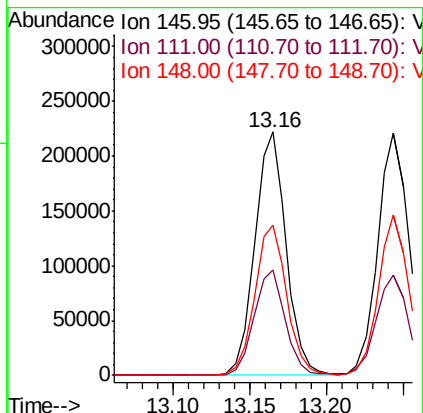
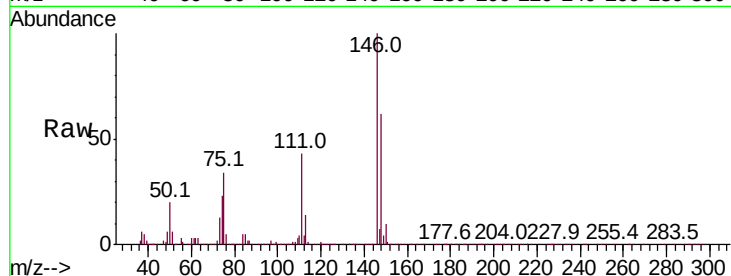
Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

ClientSampled :

Tot Ion:	146	Resp:	315044
Ion	Ratio	Lower	Upper
146	100		
111	43.1	30.4	56.4
148	61.9	44.4	82.5



#63

1,4-Dichlorobenzene

Concen: 4.665 ug/L

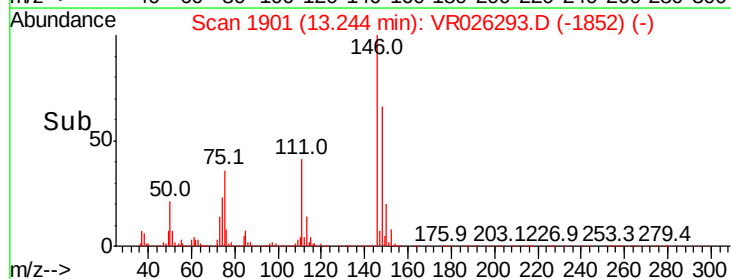
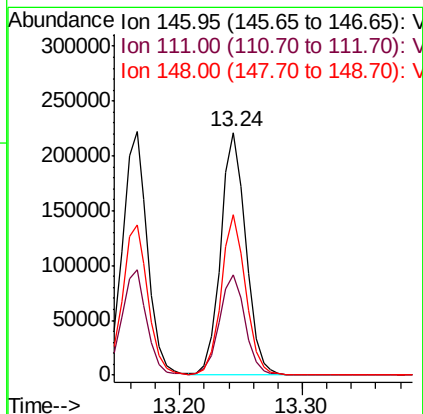
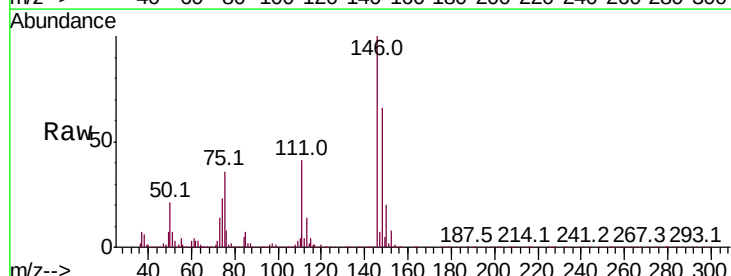
RT: 13.24 min Scan# 1901

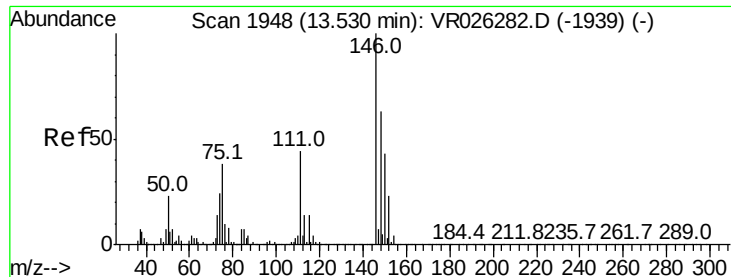
Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Tgt Ion:	146	Resp:	315630
Ion	Ratio	Lower	Upper
146	100		
111	41.1	29.0	53.9
148	66.0	46.7	86.7

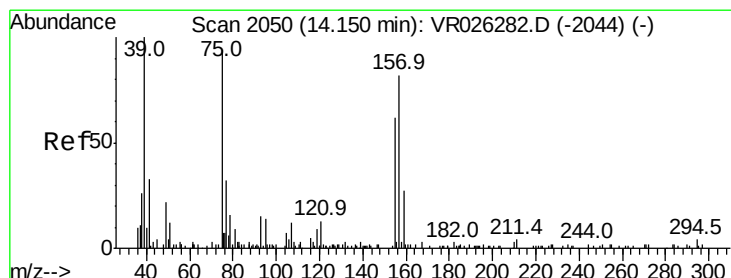
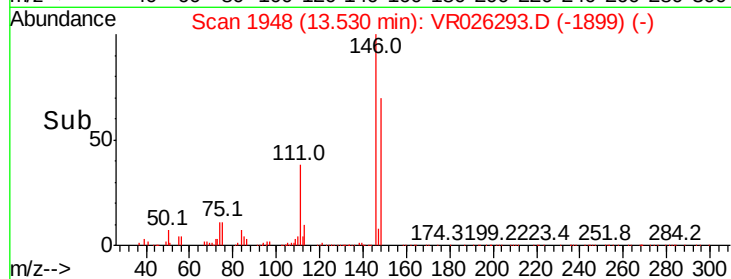
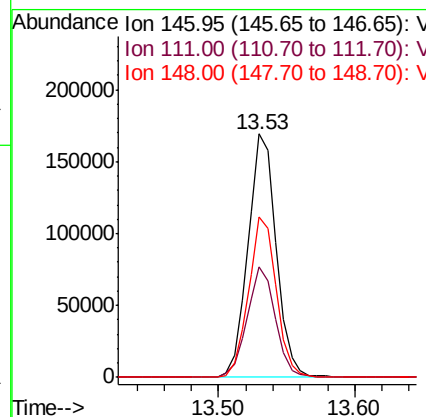
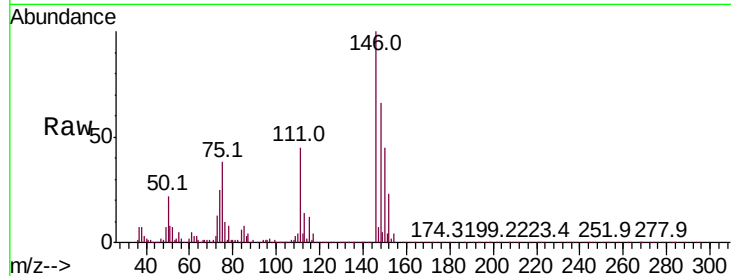




#65
 1,2-Dichlorobenzene
 Concen: 4.786 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. 0.00 min
 Lab File: VR026293.D
 Acq: 21 Dec 2018 21:44

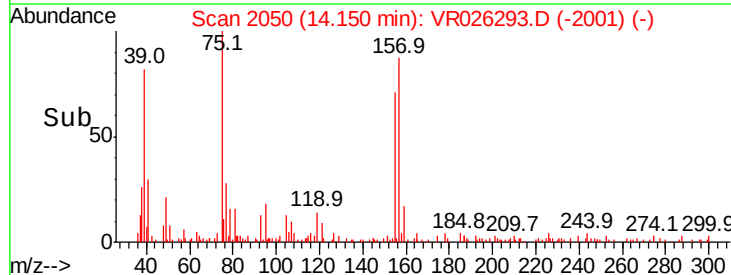
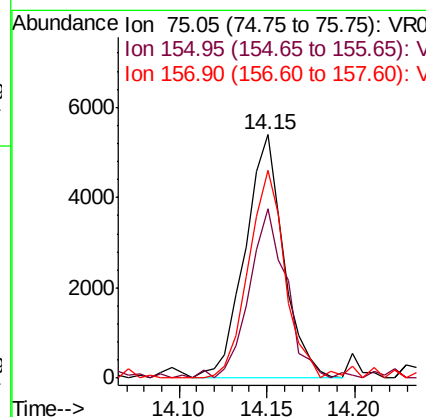
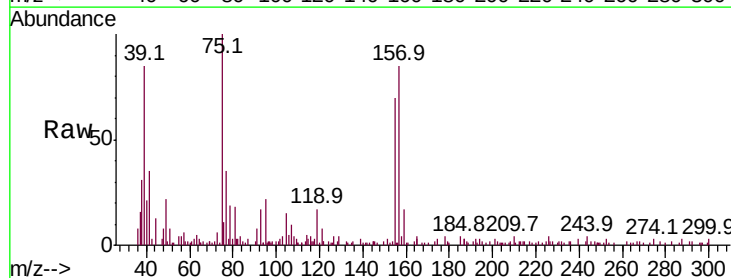
Instrument :
 MSVOA_R
 ClientSampled :

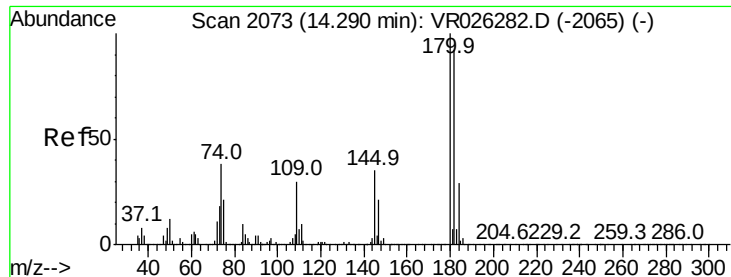
Tot Ion	Ratio	Lower	Upper
146	100		
111	45.1	34.6	52.0
148	65.7	51.0	76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.544 ug/L
 RT: 14.15 min Scan# 2050
 Delta R.T. 0.00 min
 Lab File: VR026293.D
 Acq: 21 Dec 2018 21:44

Tgt Ion	Ratio	Lower	Upper
75	100		
155	69.6	44.4	66.6#
157	85.4	66.3	99.5

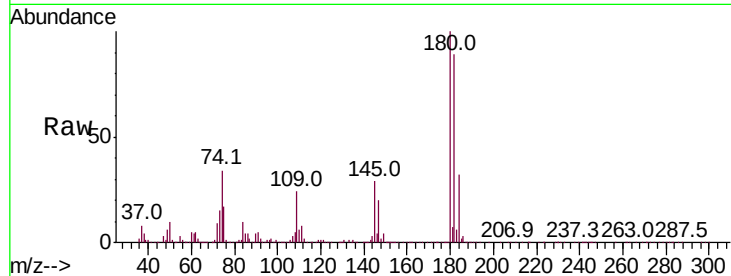




#67
 1,3,5-Trichlorobenzene
 Concen: 4.628 ug/L
 RT: 14.30 min Scan# 2074
 Delta R.T. 0.01 min
 Lab File: VR026293.D
 Acq: 21 Dec 2018 21:44

Instrument :
 MSVOA_R
 ClientSampleId :

Tot Ion:	180	Resp:	186703
Ion	Ratio	Lower	Upper
180	100		
182	94.0	77.3	115.9
184	30.3	24.4	36.6
145	32.4	26.6	40.0



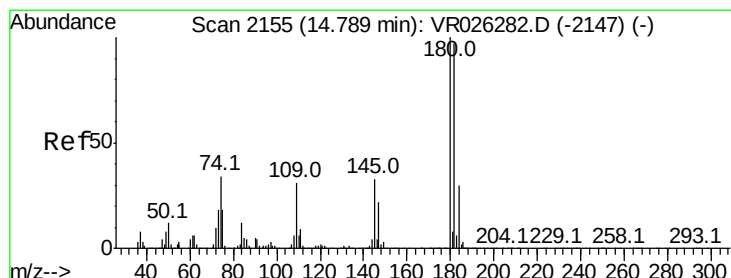
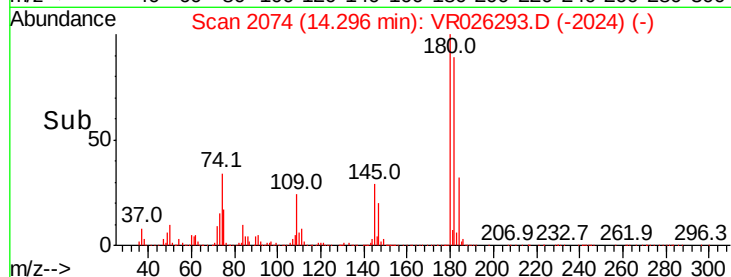
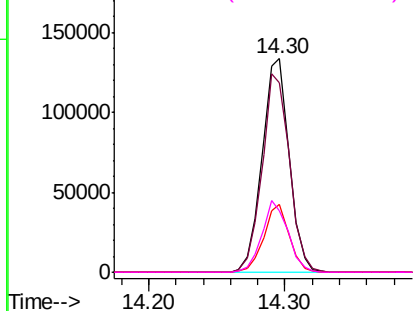
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

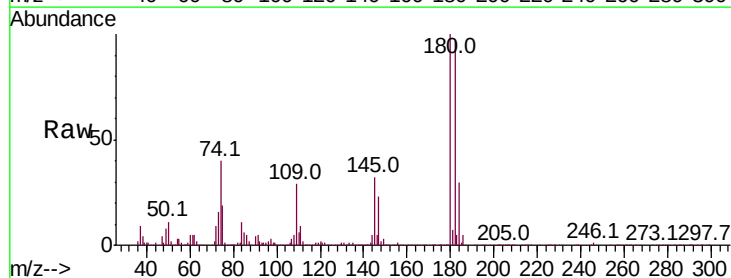
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.842 ug/L
 RT: 14.79 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VR026293.D
 Acq: 21 Dec 2018 21:44

Tgt Ion:	180	Resp:	106116
Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.8	113.6
145	33.5	27.0	40.4

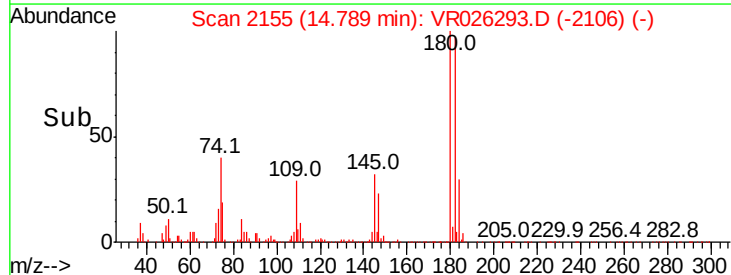
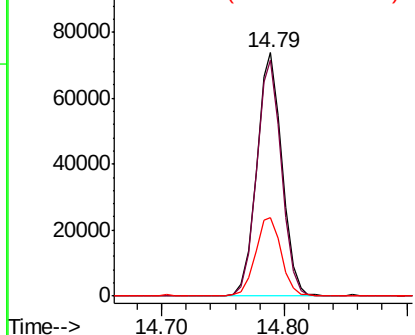


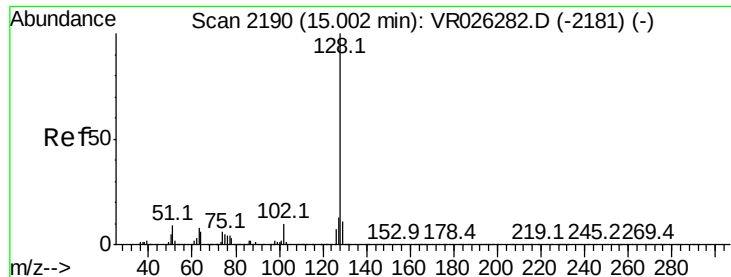
Abundance

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: 5.706 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

Instrument :

MSVOA_R

ClientSampleId :

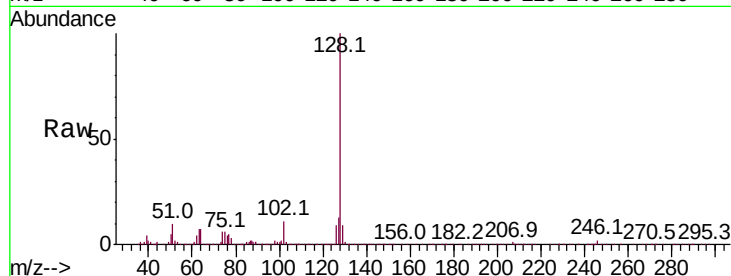
Tot Ion:128 Resp: 112324

Ion Ratio Lower Upper

128 100

127 13.8 11.1 16.7

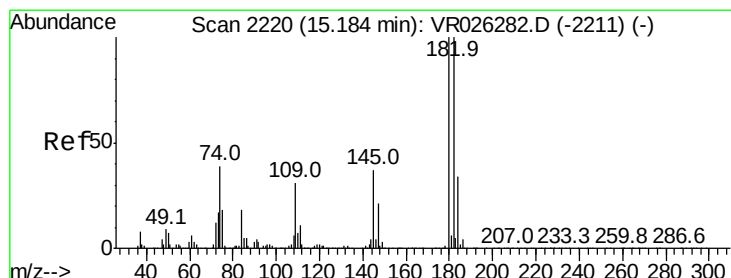
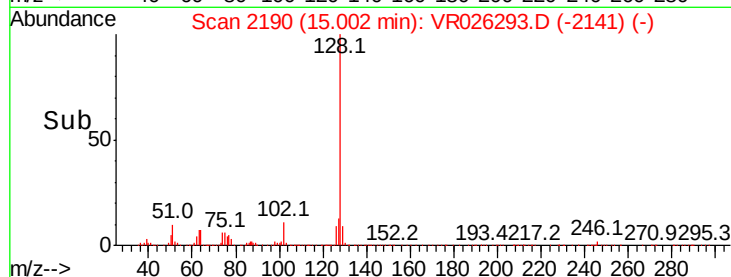
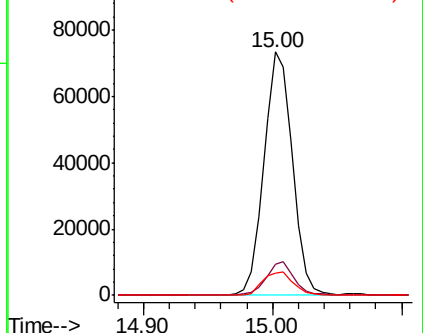
129 10.4 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.104 ug/L

RT: 15.18 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VR026293.D

Acq: 21 Dec 2018 21:44

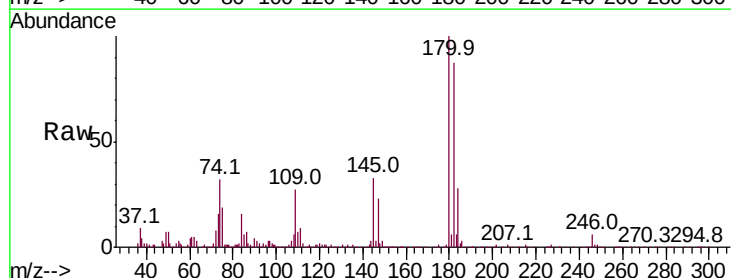
Tgt Ion:180 Resp: 77567

Ion Ratio Lower Upper

180 100

182 89.3 75.1 112.7

145 34.5 25.8 38.6



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

