

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051483.D
 Acq On : 25 Sep 2018 14:26
 Operator : MD\SY
 Sample : J5015-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1RE

Quant Time: Sep 26 02:09:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	98037	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	487000	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	407314	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	202814	30.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.20%
60) 4-Bromofluorobenzene	12.40	95	144391	24.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	80.50%
63) Toluene-d8	10.09	98	571155	29.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.50%

Target Compounds

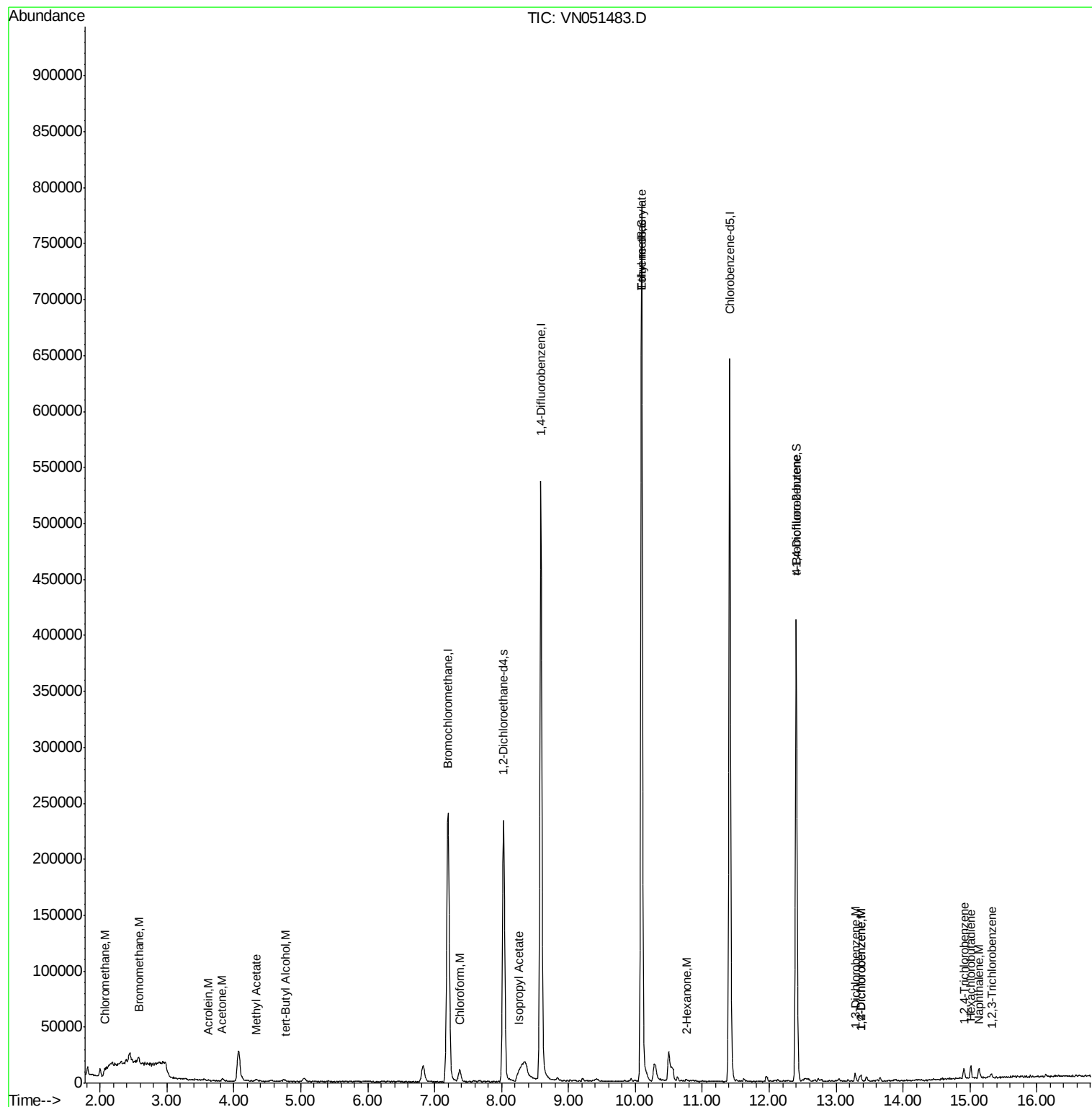
					Ovalue	
3) Chloromethane	2.06	50	2069	0.287	ug/l	92
5) Bromomethane	2.57	94	3128	0.621	ug/l	96
12) Methyl Acetate	4.33	43	1720	0.423	ug/l #	48
13) Acrolein	3.62	56	159	0.293	ug/l #	9
15) Acetone	3.83	58	630	1.549	ug/l #	14
23) tert-Butyl Alcohol	4.78	59	241	0.775	ug/l #	100
25) Chloroform	7.38	83	11162	1.146	ug/l	99
44) Isopropyl Acetate	8.26	43	6672	0.941	ug/l #	61
51) Ethyl methacrylate	10.10	69	2192	0.411	ug/l	84
59) 2-Hexanone	10.75	43	501	0.213	ug/l #	72
77) t-1,4-Dichloro-2-butene	12.40	75	70818	52.406	ug/l #	12
83) 1,3-Dichlorobenzene	13.28	146	2554	0.274	ug/l	74
84) 1,4-Dichlorobenzene	13.37	146	2591	0.296	ug/l	96
87) 1,2-Dichlorobenzene	13.37	146	2591	0.293	ug/l	96
89) 1,2,4-Trichlorobenzene	14.92	180	2968	0.674	ug/l	87
90) Hexachlorobutadiene	15.01	225	2399	0.703	ug/l	93
91) Naphthalene	15.13	128	7465	0.898	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.32	180	1537	0.346	ug/l	95

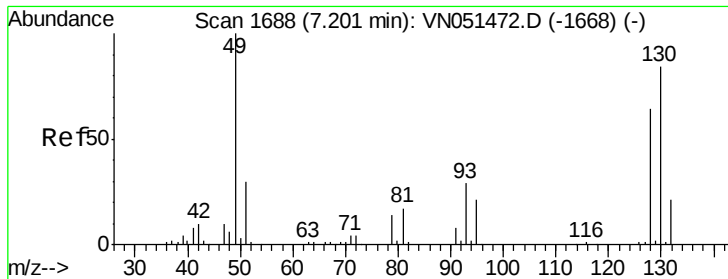
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 26 02:09:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
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QLast Update : Wed Sep 26 01:19:41 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1RE

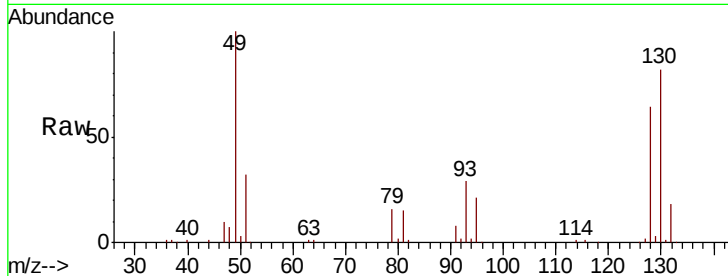
Tot Ion:128 Resp: 98037

Ion Ratio Lower Upper

128 100

49 159.0 0.0 403.3

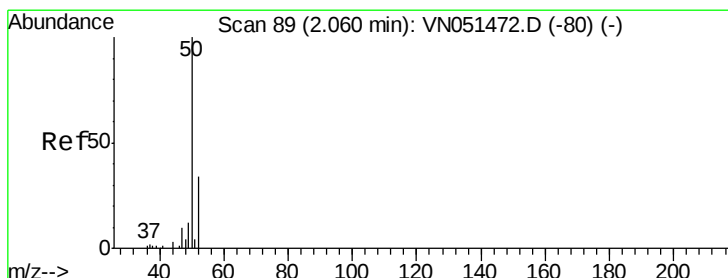
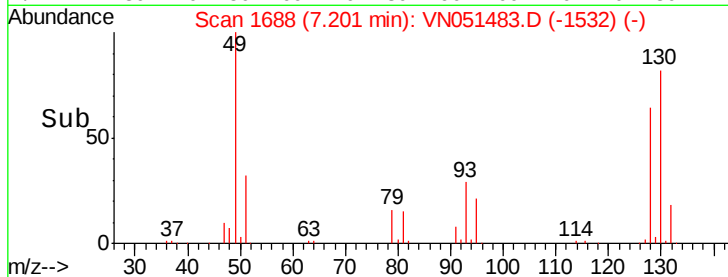
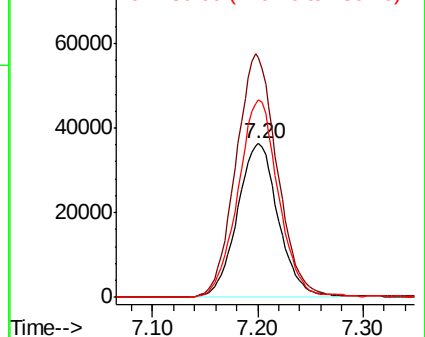
130 126.6 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.287 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051483.D

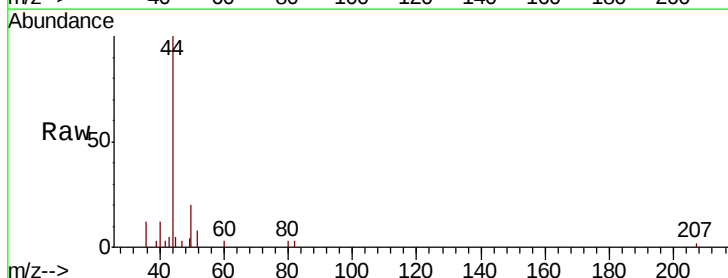
Acq: 25 Sep 2018 14:26

Tgt Ion: 50 Resp: 2069

Ion Ratio Lower Upper

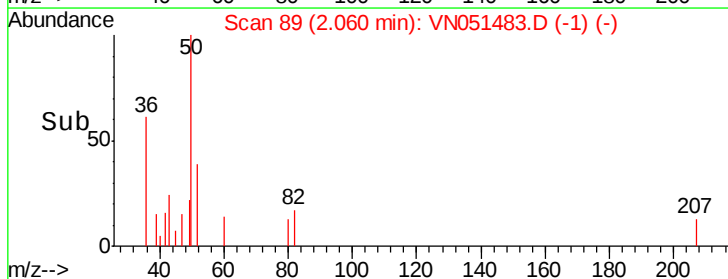
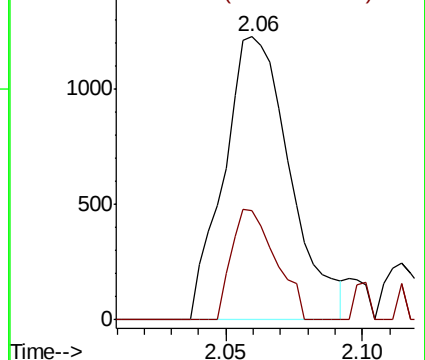
50 100

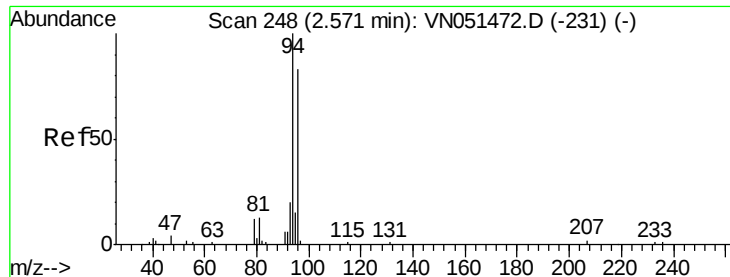
52 38.7 27.2 40.8



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.621 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

Instrument :

MSVOA_N

ClientSampleId :

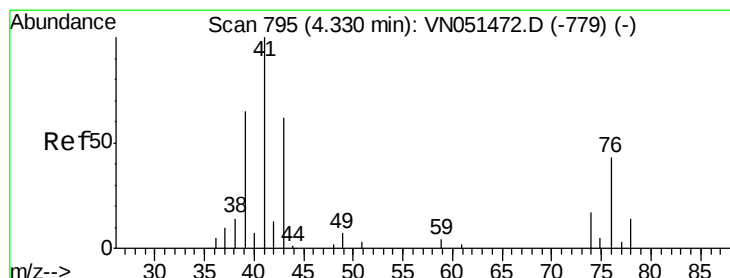
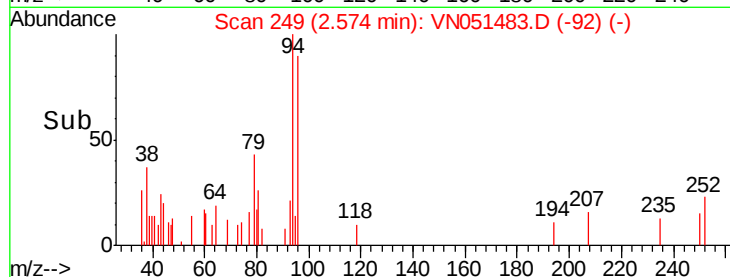
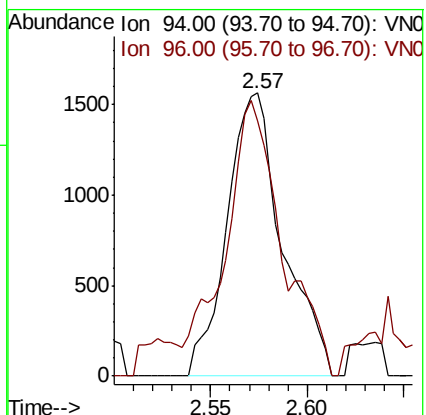
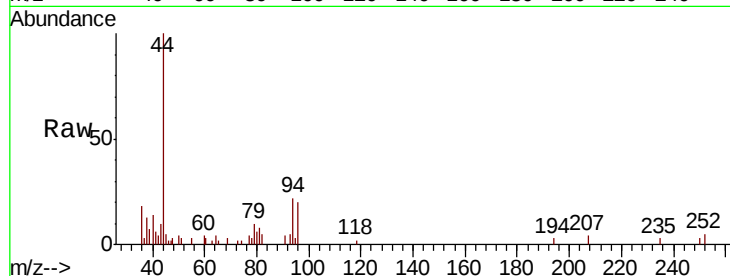
SPDES-1RE

Tot Ion: 94 Resp: 3128

Ion Ratio Lower Upper

94 100

96 79.5 66.4 99.6



#12

Methyl Acetate

Concen: 0.423 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051483.D

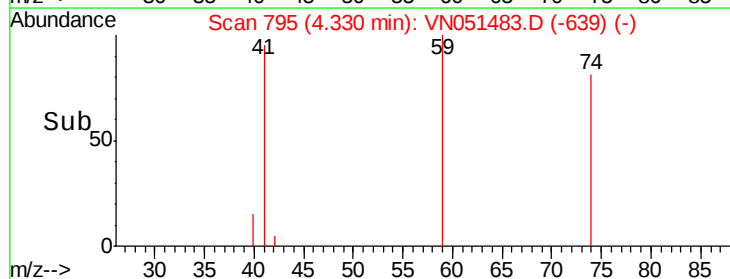
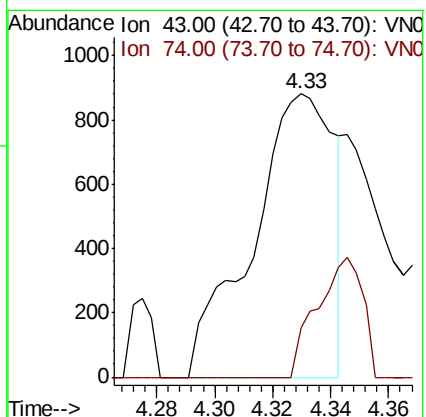
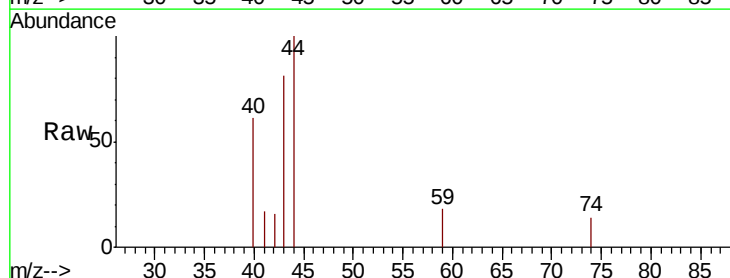
Acq: 25 Sep 2018 14:26

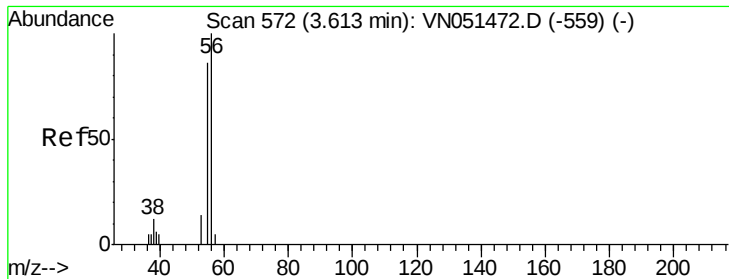
Tgt Ion: 43 Resp: 1720

Ion Ratio Lower Upper

43 100

74 0.0 21.8 32.6#





#13

Acrolein

Concen: 0.293 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

Instrument :

MSVOA_N

ClientSampleId :

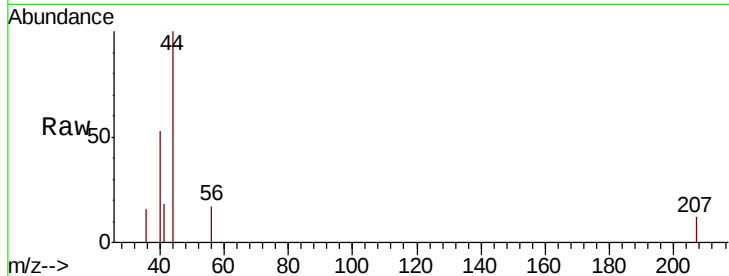
SPDES-1RE

Tot Ion: 56 Resp: 159

Ion Ratio Lower Upper

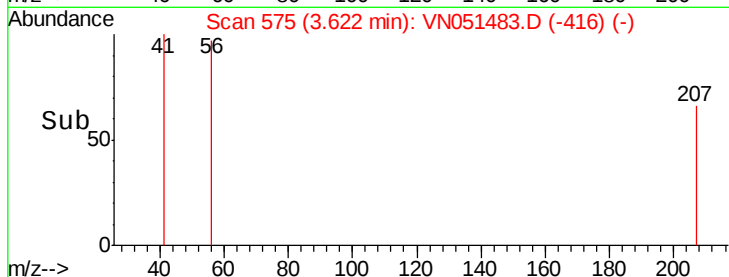
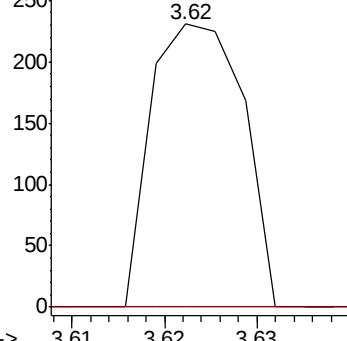
56 100

55 0.0 64.0 96.0#

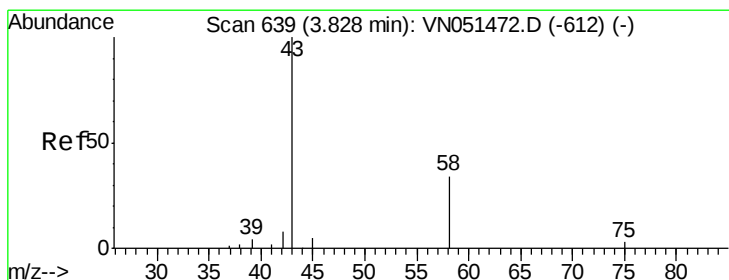


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time--> 3.61 3.62 3.63



#15

Acetone

Concen: 1.549 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VN051483.D

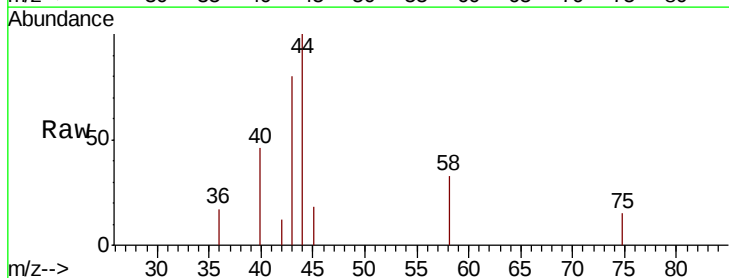
Acq: 25 Sep 2018 14:26

Tgt Ion: 58 Resp: 630

Ion Ratio Lower Upper

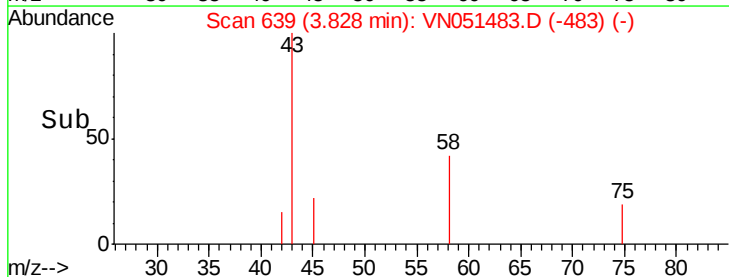
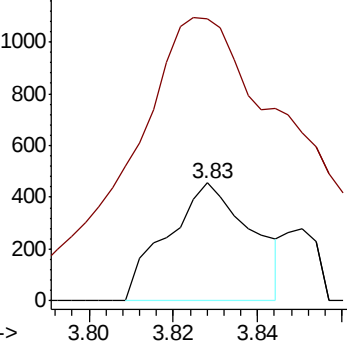
58 100

43 125.3 232.2 348.2#

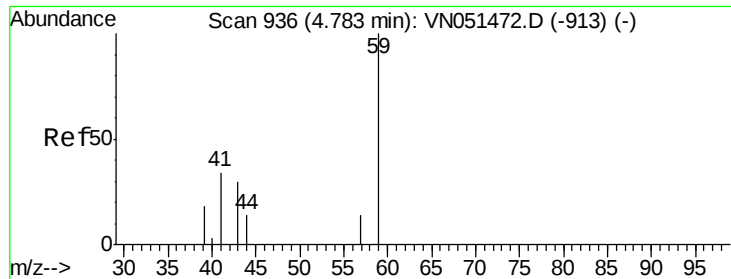


Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



Time--> 3.80 3.82 3.84

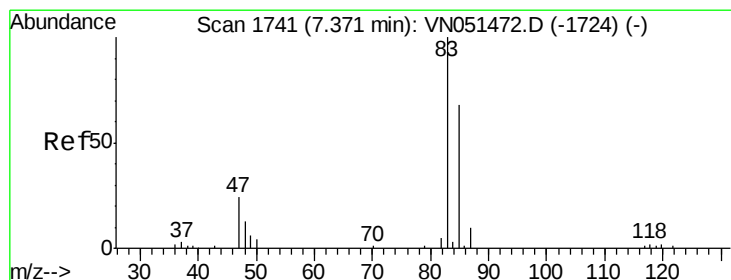
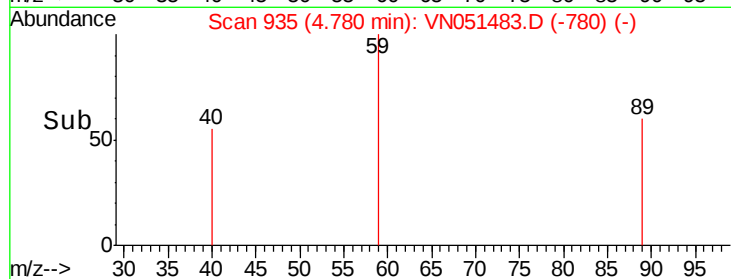
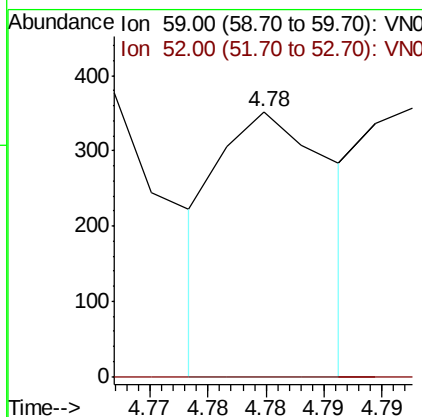
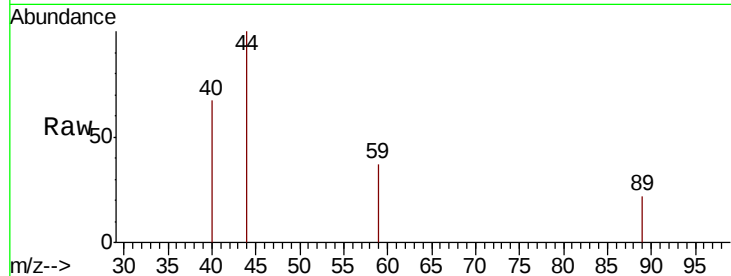


#23

tert-Butyl Alcohol
 Concen: 0.775 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VN051483.D
 Acq: 25 Sep 2018 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1RE

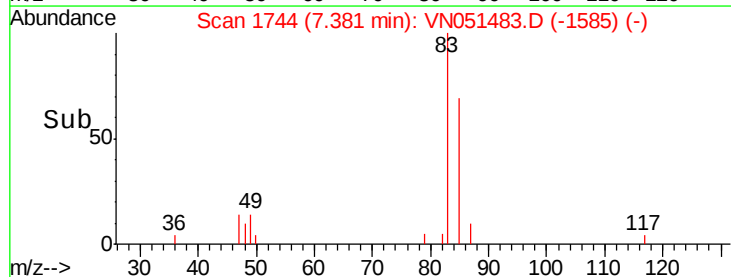
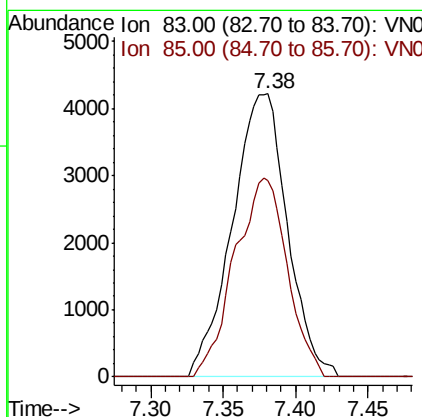
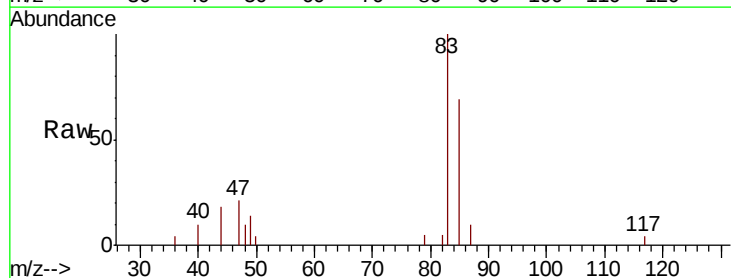
Tot Ion: 59 Resp: 241
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

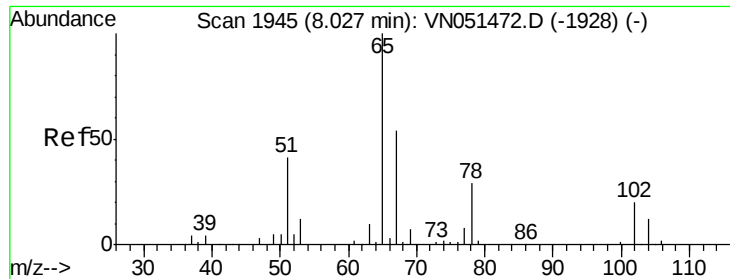


#25

Chloroform
 Concen: 1.146 ug/l
 RT: 7.38 min Scan# 1744
 Delta R.T. 0.01 min
 Lab File: VN051483.D
 Acq: 25 Sep 2018 14:26

Tgt Ion: 83 Resp: 11162
 Ion Ratio Lower Upper
 83 100
 85 69.2 54.6 82.0





#27

1,2-Dichloroethane-d4

Concen: 30.059 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

Instrument :

MSVOA_N

ClientSampleId :

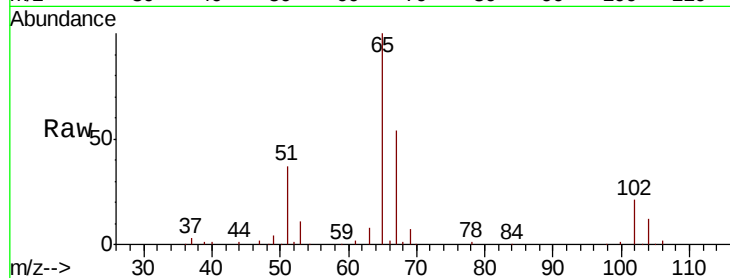
SPDES-1RE

Tot Ion: 65 Resp: 202814

Ion Ratio Lower Upper

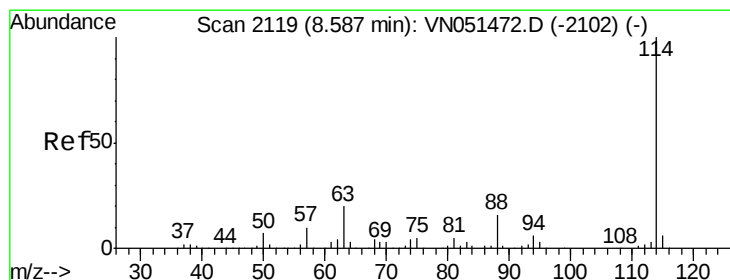
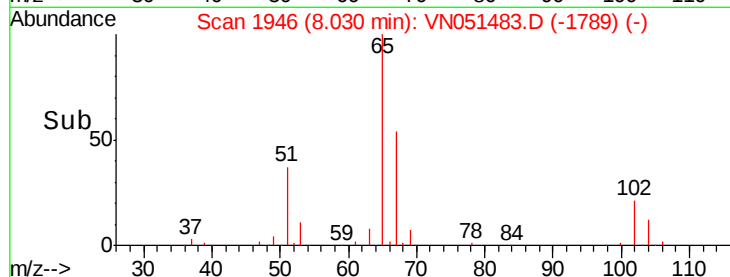
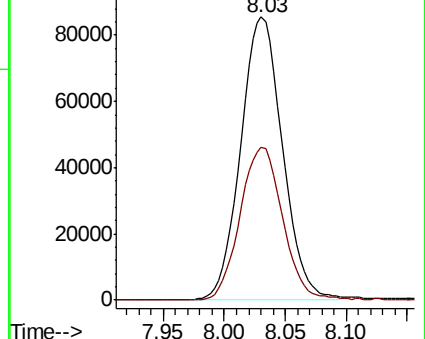
65 100

67 54.9 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051472.D (-1928) (-)

Ion 67.00 (66.70 to 67.70): VN051472.D (-1928) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2120

Delta R.T. 0.00 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

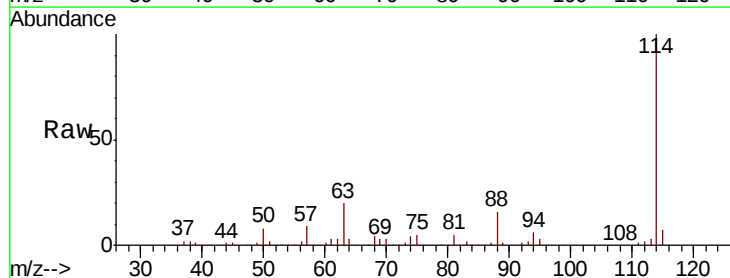
Tgt Ion: 114 Resp: 487000

Ion Ratio Lower Upper

114 100

63 20.5 16.2 24.2

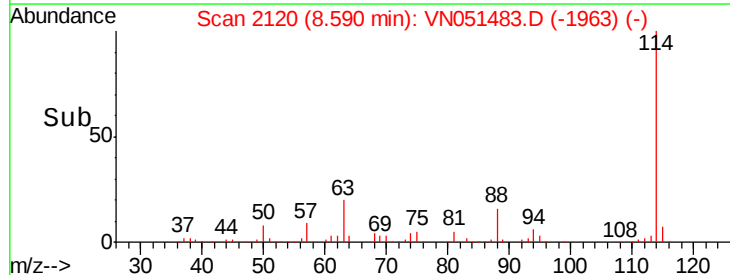
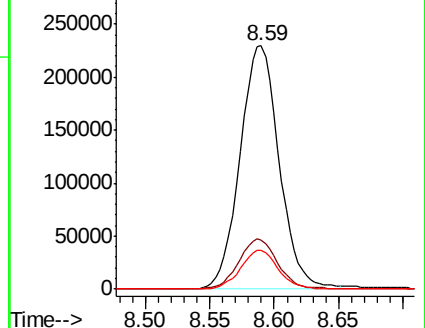
88 15.2 12.2 18.4

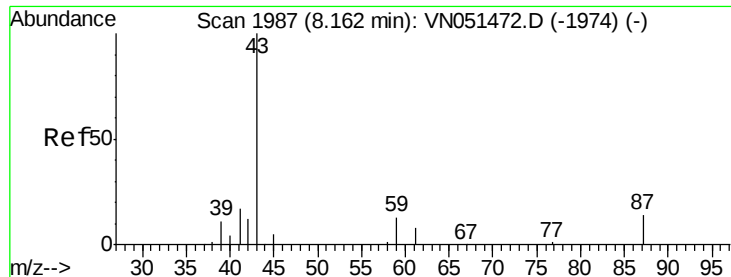


Abundance Ion 114.00 (113.70 to 114.70): VN051472.D (-2102) (-)

Ion 63.00 (62.70 to 63.70): VN051472.D (-2102) (-)

Ion 88.00 (87.70 to 88.70): VN051472.D (-2102) (-)





#44

Isopropyl Acetate

Concen: 0.941 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.10 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

Instrument :

MSVOA_N

ClientSampleId :

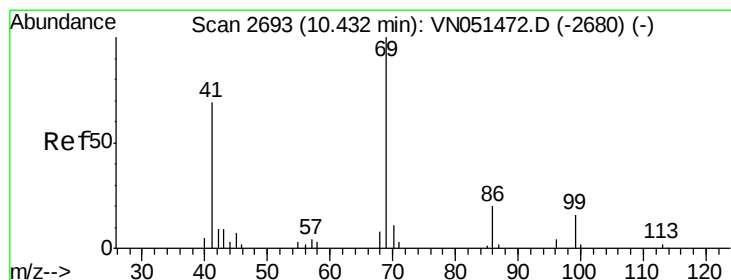
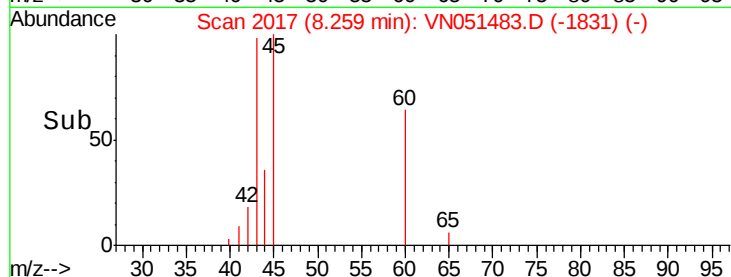
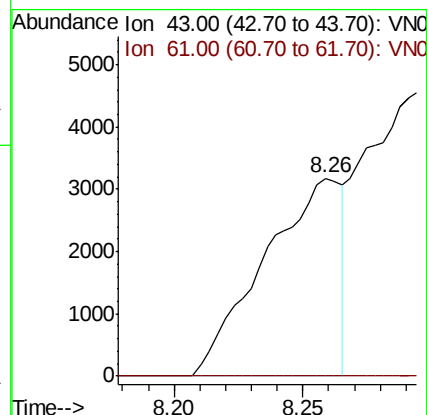
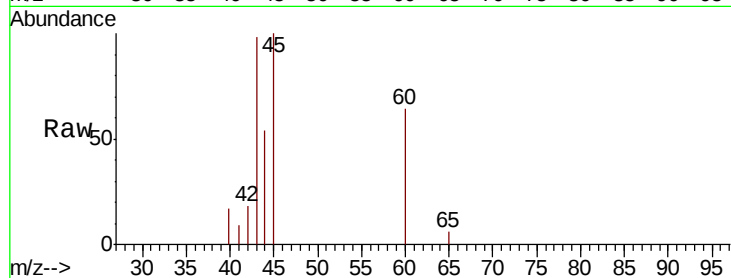
SPDES-1RE

Tot Ion: 43 Resp: 6672

Ion Ratio Lower Upper

43 100

61 2.2 15.9 23.9#



#51

Ethyl methacrylate

Concen: 0.411 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.33 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

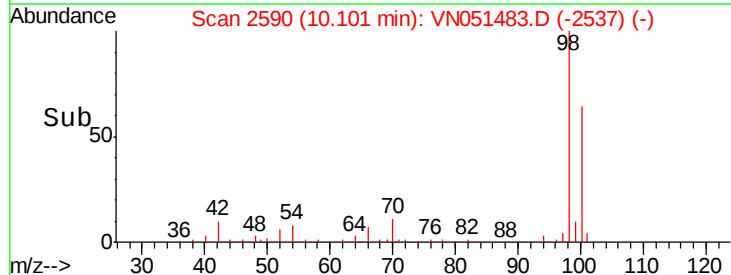
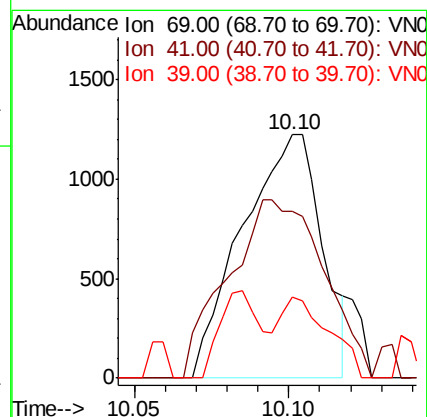
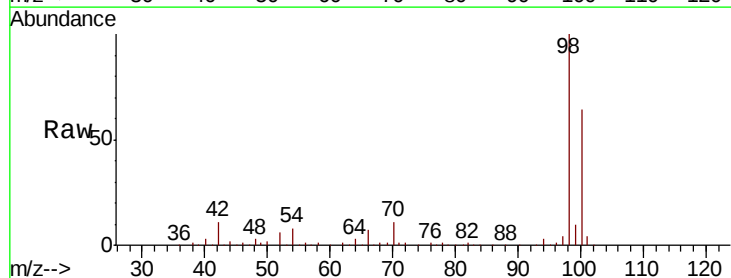
Tgt Ion: 69 Resp: 2192

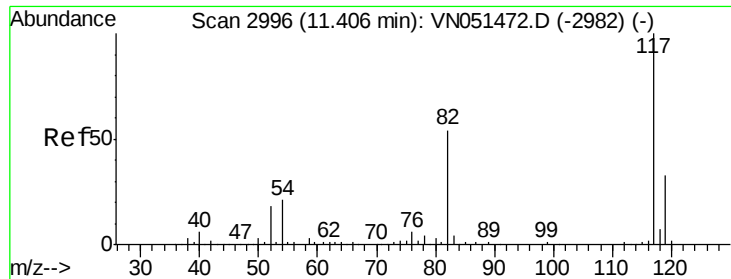
Ion Ratio Lower Upper

69 100

41 50.0 34.4 103.1

39 33.3 16.3 48.8

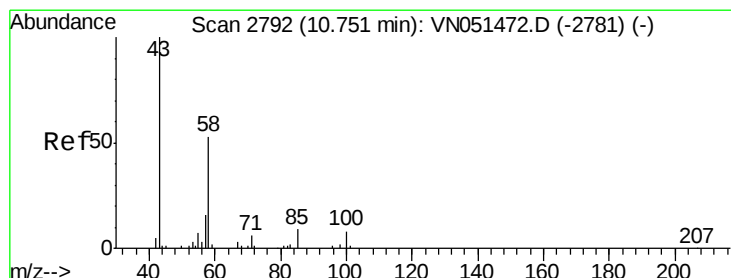
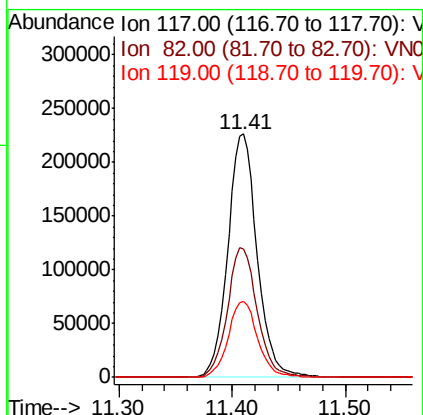
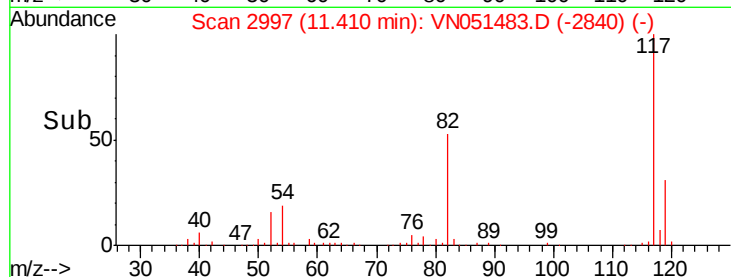
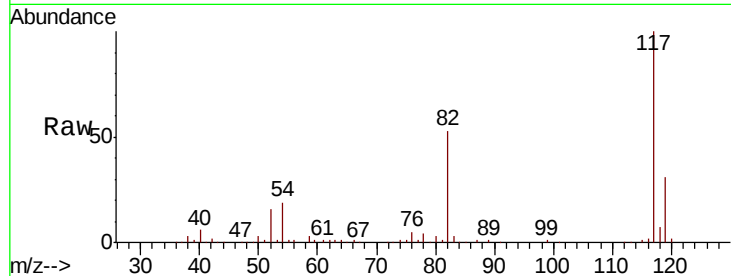




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051483.D
Acq: 25 Sep 2018 14:26

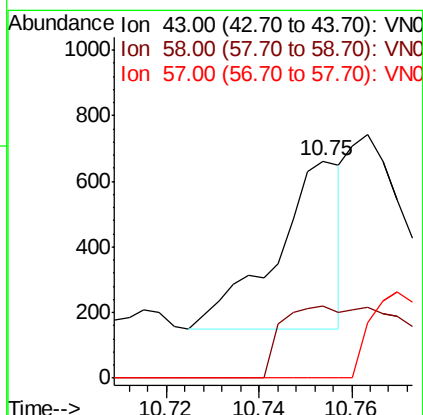
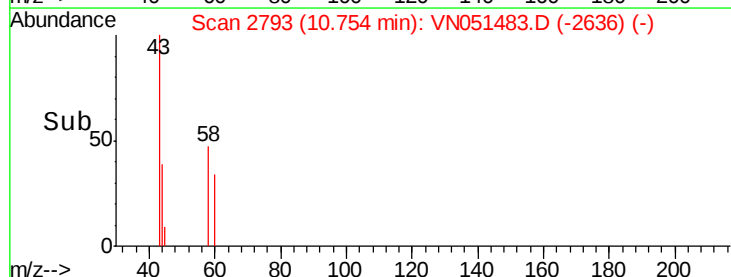
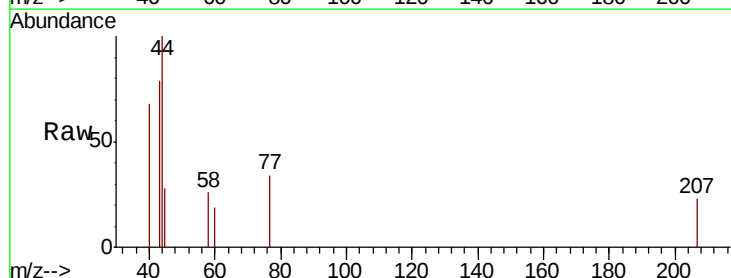
Instrument :
MSVOA_N
ClientSampled :
SPDES-1RE

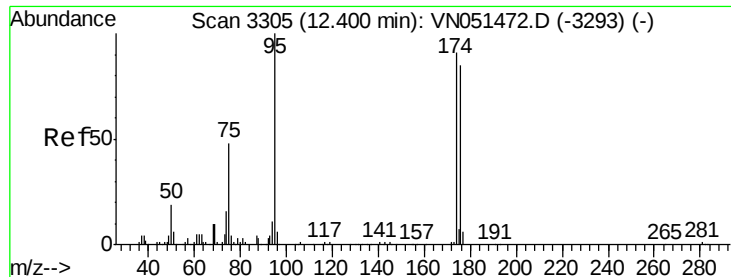
Tot Ion:117 Resp: 407314
Ion Ratio Lower Upper
117 100
82 54.2 44.1 66.1
119 31.5 25.8 38.8



#59
2-Hexanone
Concen: 0.213 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051483.D
Acq: 25 Sep 2018 14:26

Tgt Ion: 43 Resp: 501
Ion Ratio Lower Upper
43 100
58 38.3 41.3 61.9#
57 40.5 13.4 20.0#

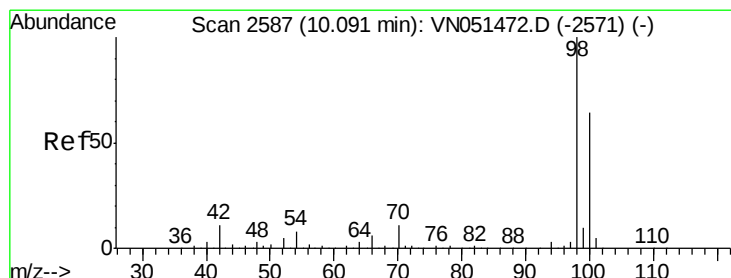
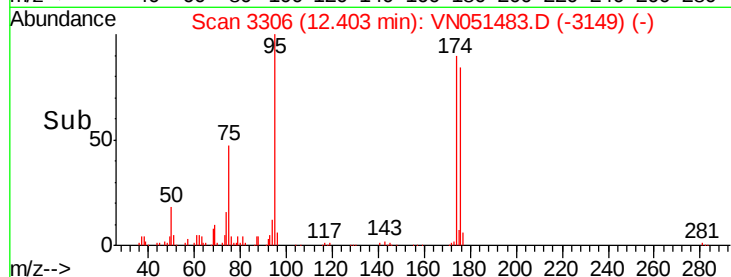
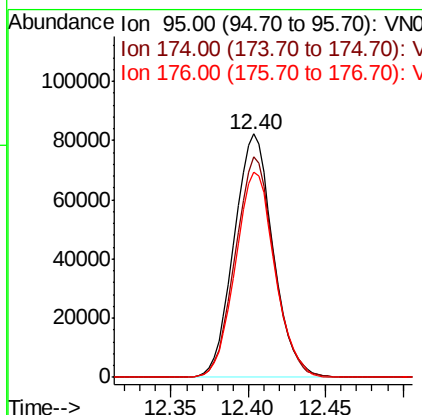
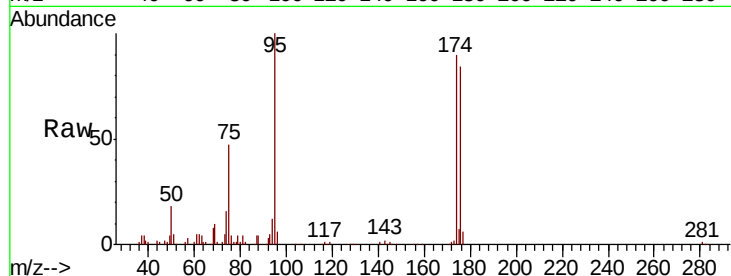




#60
4-Bromofluorobenzene
Concen: 24.146 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051483.D
Acq: 25 Sep 2018 14:26

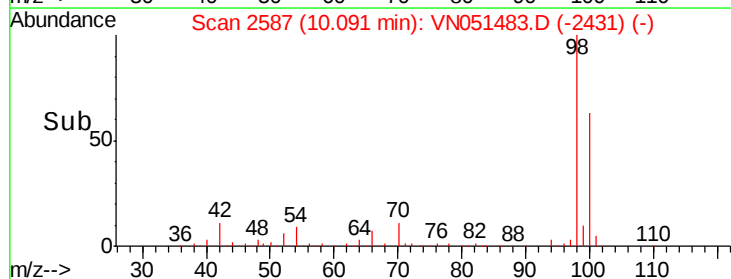
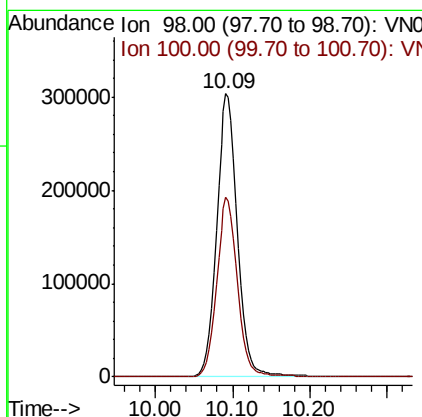
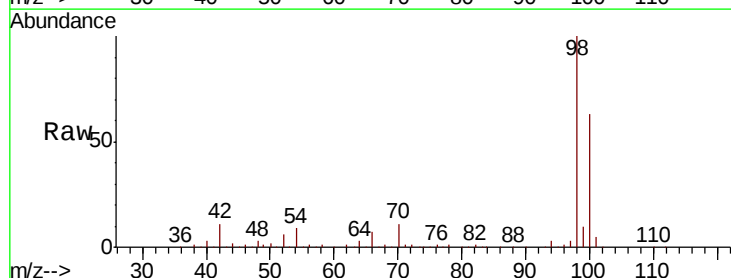
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1RE

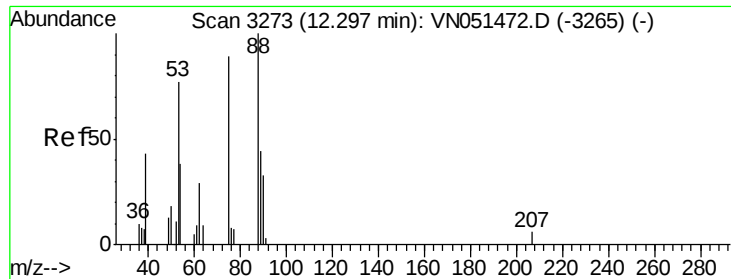
Tot Ion: 95 Resp: 144391
Ion Ratio Lower Upper
95 100
174 90.0 73.5 110.3
176 85.3 70.2 105.2



#63
Toluene-d8
Concen: 29.246 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051483.D
Acq: 25 Sep 2018 14:26

Tgt Ion: 98 Resp: 571155
Ion Ratio Lower Upper
98 100
100 63.4 50.8 76.2





#77

t-1,4-Dichloro-2-butene

Concen: 52.406 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.11 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1RE

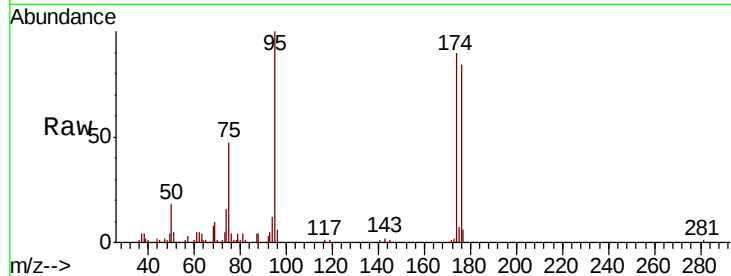
Tot Ion: 75 Resp: 70818

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

89 0.0 24.6 73.8#

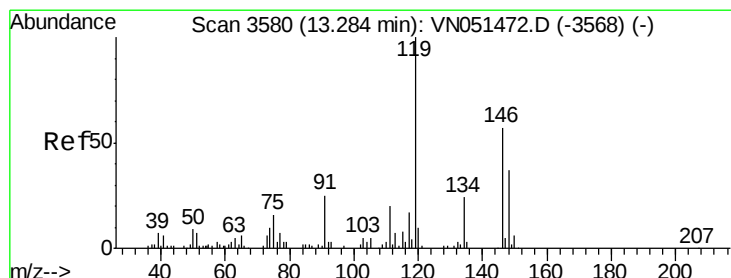
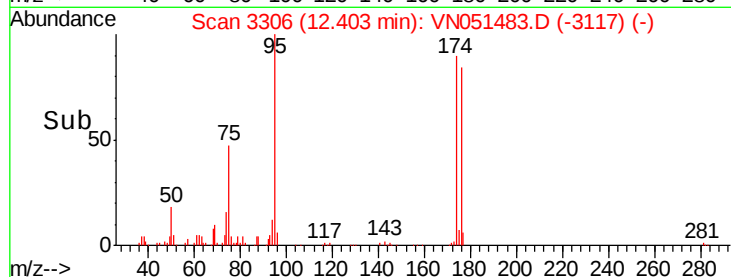
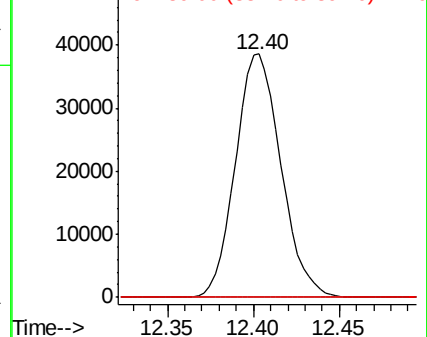


Abundance

Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#83

1,3-Dichlorobenzene

Concen: 0.274 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

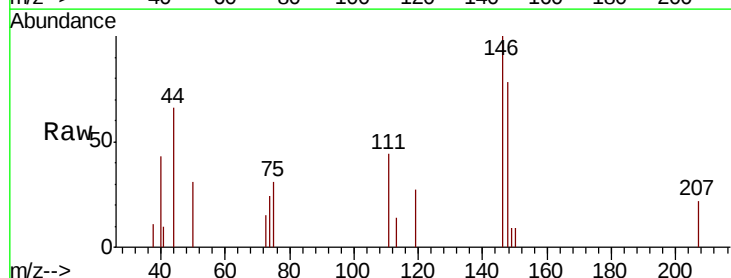
Tgt Ion: 146 Resp: 2554

Ion Ratio Lower Upper

146 100

111 49.1 18.1 54.3

148 83.9 31.3 93.8

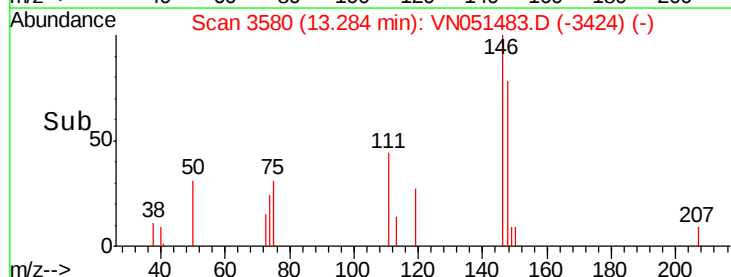
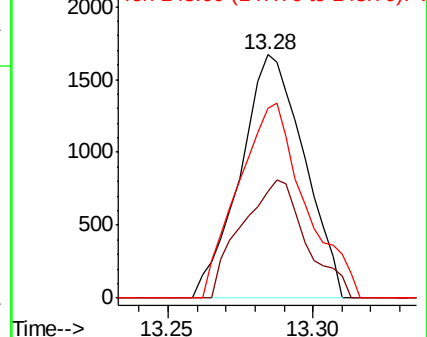


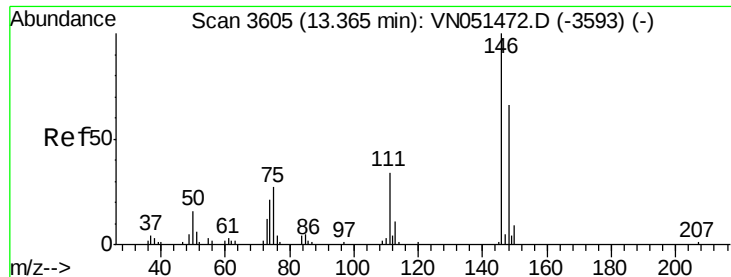
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#84

1,4-Dichlorobenzene

Concen: 0.296 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1RE

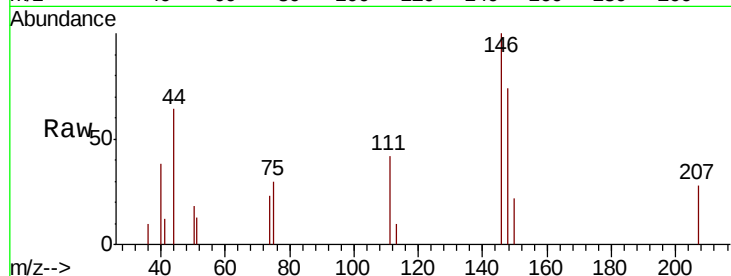
Tot Ion:146 Resp: 2591

Ion Ratio Lower Upper

146 100

111 38.3 17.4 52.2

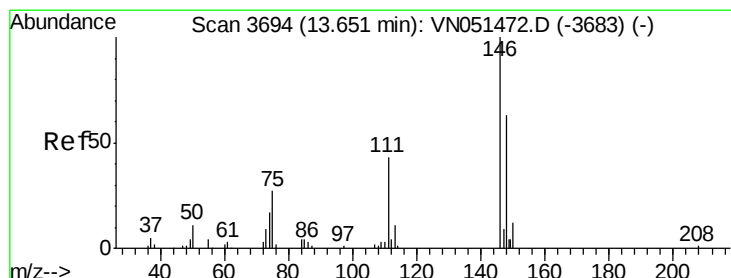
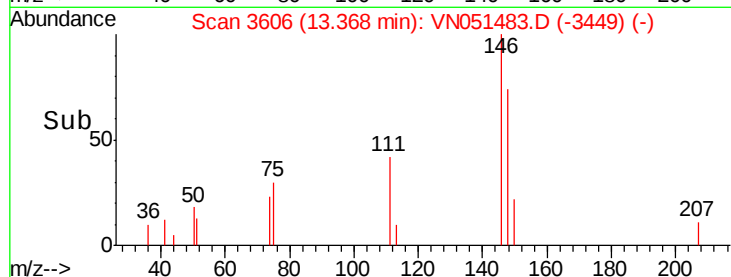
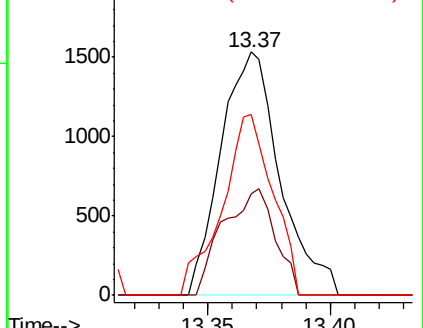
148 63.5 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#87

1,2-Dichlorobenzene

Concen: 0.293 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. -0.28 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

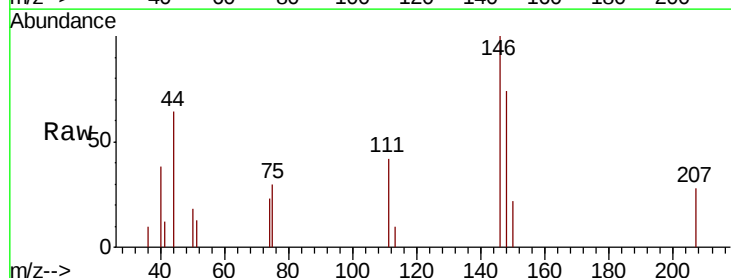
Tgt Ion:146 Resp: 2591

Ion Ratio Lower Upper

146 100

111 38.3 20.8 62.2

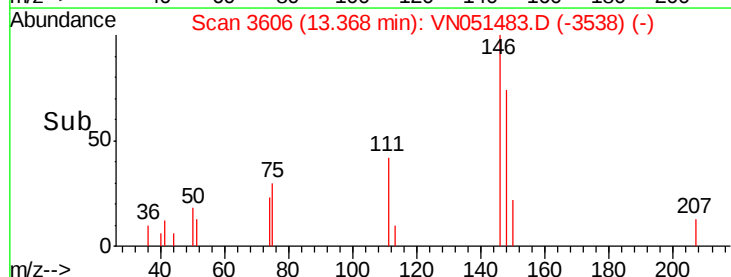
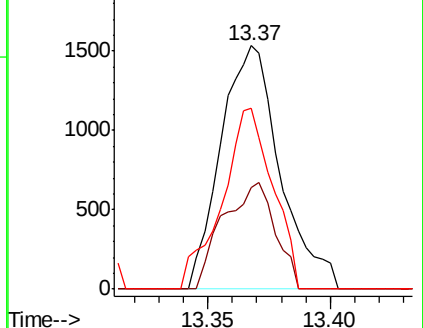
148 63.5 33.2 99.6

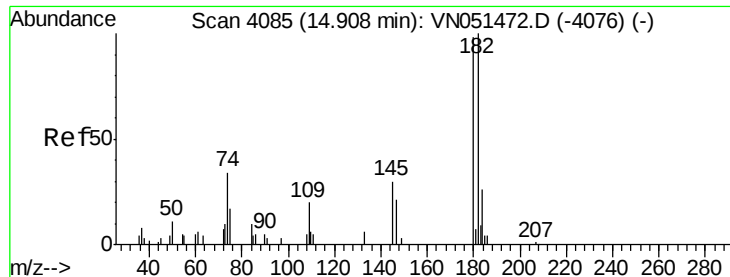


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

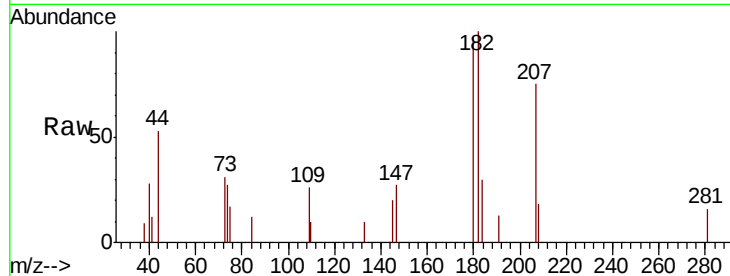




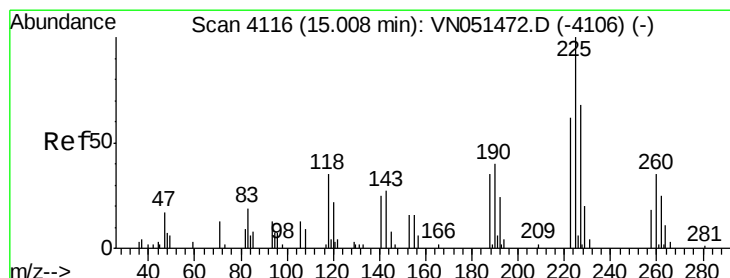
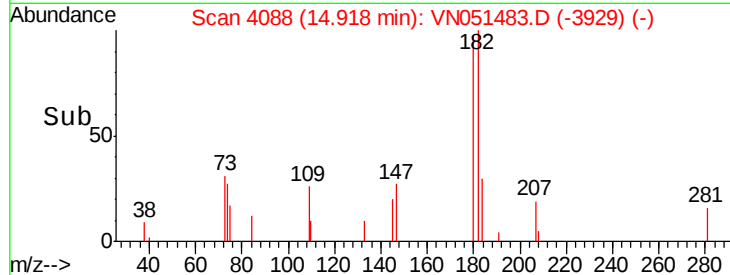
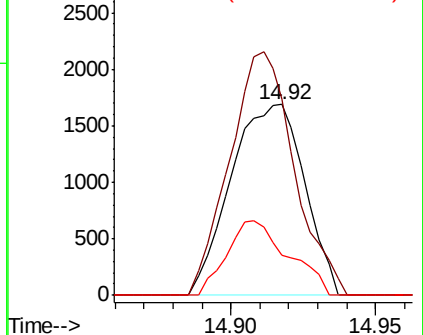
#89
 1,2,4-Trichlorobenzene
 Concen: 0.674 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN051483.D
 Acq: 25 Sep 2018 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1RE

Tot Ion:180 Resp: 2968
 Ion Ratio Lower Upper
 180 100
 182 112.2 77.7 116.5
 145 32.5 23.4 35.2

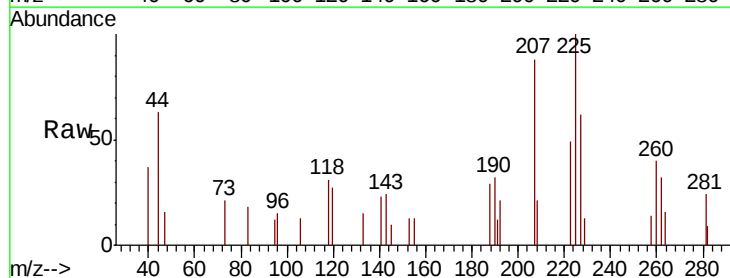


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

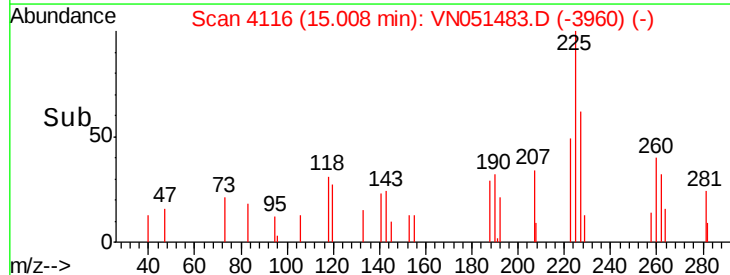
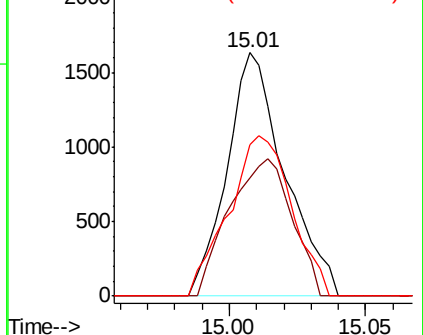


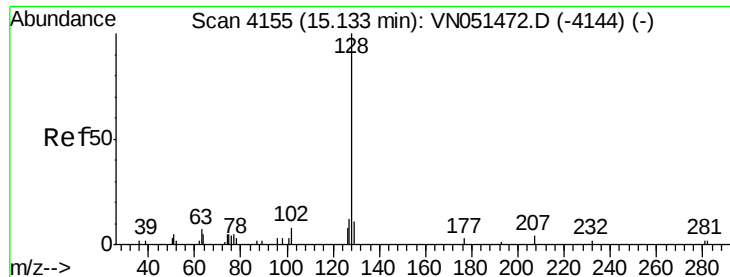
#90
 Hexachlorobutadiene
 Concen: 0.703 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN051483.D
 Acq: 25 Sep 2018 14:26

Tgt Ion:225 Resp: 2399
 Ion Ratio Lower Upper
 225 100
 223 61.2 0.0 117.0
 227 71.5 0.0 127.0



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 0.898 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1RE

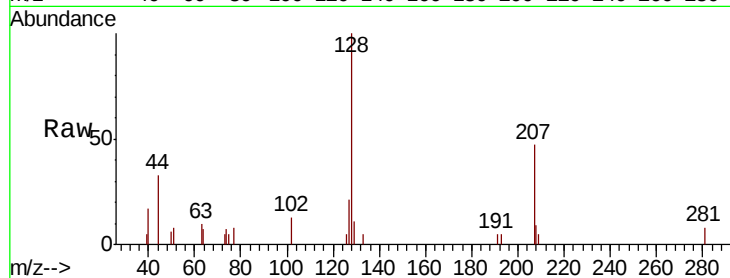
Tot Ion:128 Resp: 7465

Ion Ratio Lower Upper

128 100

127 15.8 10.1 15.1#

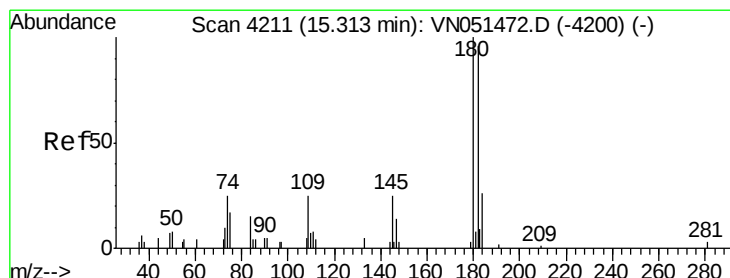
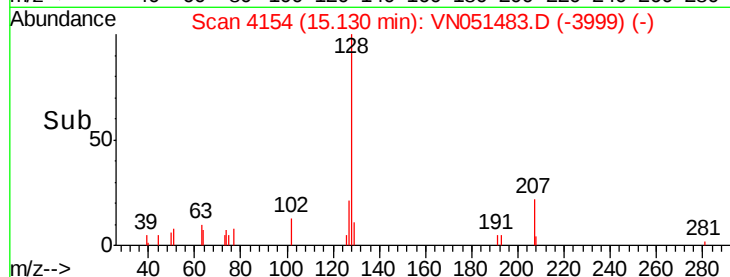
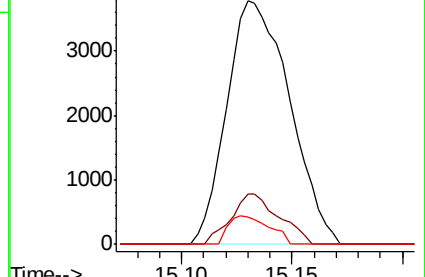
129 7.6 8.4 12.6#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.346 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN051483.D

Acq: 25 Sep 2018 14:26

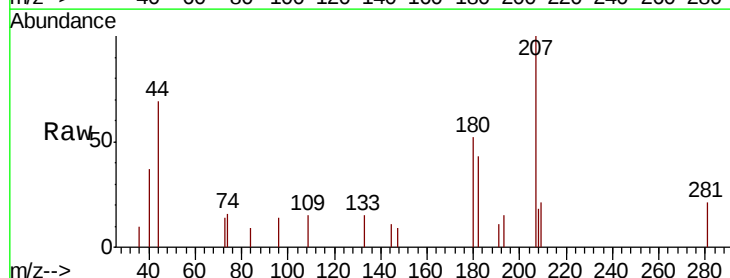
Tgt Ion:180 Resp: 1537

Ion Ratio Lower Upper

180 100

182 94.1 0.0 198.0

145 15.0 0.0 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

