

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058733.D
 Acq On : 12 Oct 2019 3:45
 Operator : JC/SP
 Sample : K5149-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-101019

Quant Time: Oct 12 05:49:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	416270	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	649942	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	598985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	248857	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	297699	51.08	ug/l	0.00
Spiked Amount						
			Recovery	=	102.16%	
35) Dibromofluoromethane	7.57	113	213809	53.26	ug/l	0.00
Spiked Amount						
			Recovery	=	106.52%	
50) Toluene-d8	10.08	98	847203	52.77	ug/l	0.00
Spiked Amount						
			Recovery	=	105.54%	
62) 4-Bromofluorobenzene	12.41	95	284888	46.88	ug/l	0.00
Spiked Amount						
			Recovery	=	93.76%	

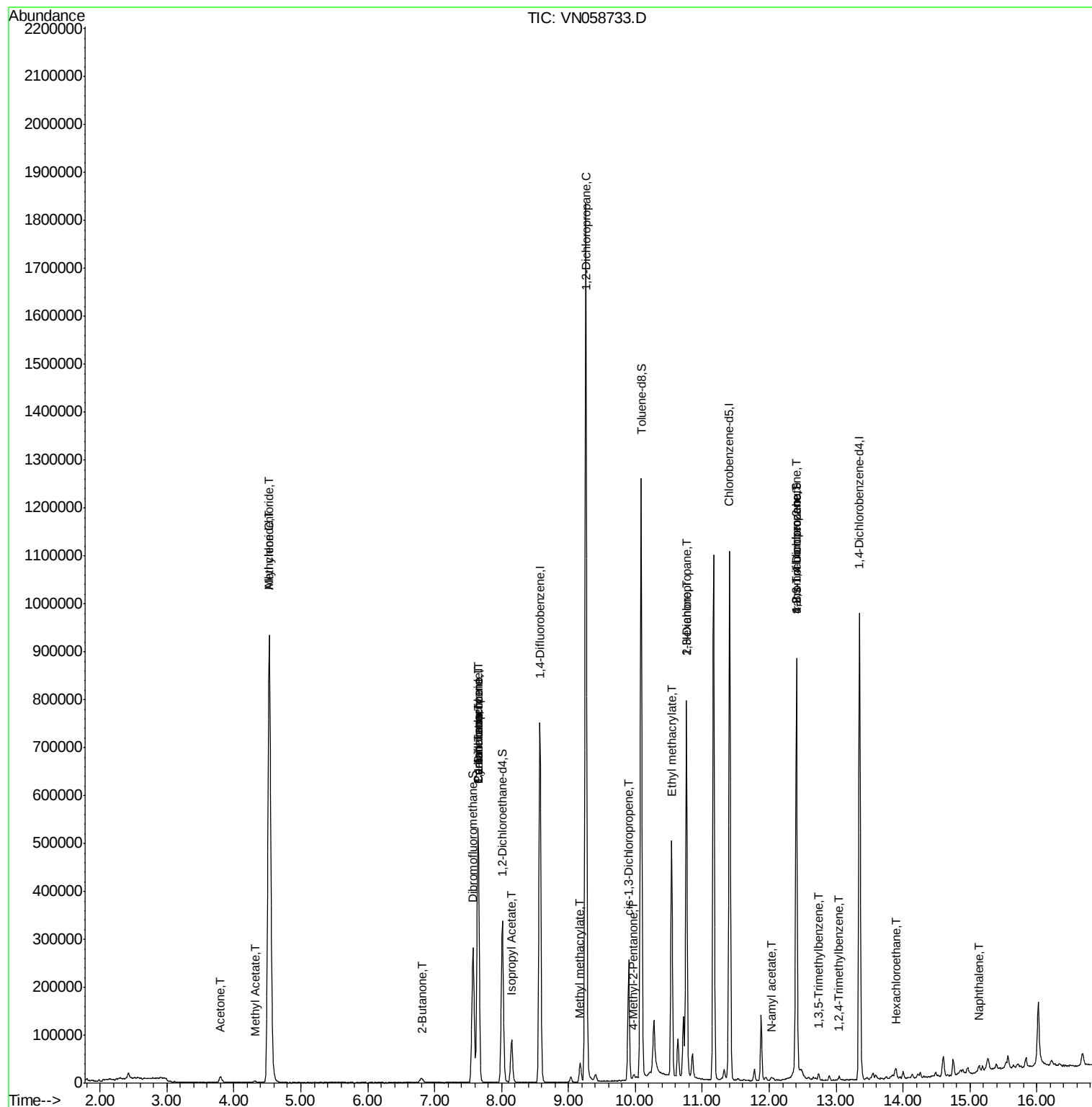
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.53	41	24985	3.097	ug/l #	23
16) Acetone	3.80	43	22118	9.168	ug/l	95
18) Methyl Acetate	4.31	43	6949	1.135	ug/l #	68
20) Methylene Chloride	4.53	84	687730	136.392	ug/l	98
25) 2-Butanone	6.82	43	822	0.236	ug/l #	87
31) Cyclohexane	7.65	56	9961	1.165	ug/l #	13
36) 1,1-Dichloropropene	7.65	75	33671	5.124	ug/l #	50
38) Carbon Tetrachloride	7.65	117	41868	6.537	ug/l #	17
43) Isopropyl Acetate	8.15	43	104244	9.208	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	2378	0.471	ug/l #	45
48) Methyl methacrylate	9.17	41	6300	1.228	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	7602	1.196	ug/l #	86
54) cis-1,3-Dichloropropene	9.90	75	43032	5.417	ug/l #	65
56) Ethyl methacrylate	10.54	69	1706	0.247	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7514	0.933	ug/l #	42
59) 2-Hexanone	10.76	43	115406	23.487	ug/l #	53
74) N-amyl acetate	12.03	43	5476	0.676	ug/l #	47
76) 1,2,3-Trichloropropane	12.41	75	154636	28.325	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	6060	0.394	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.41	75	154636	75.874	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.05	105	5080	0.333	ug/l	97
90) Hexachloroethane	13.90	117	638	0.226	ug/l #	10
95) Naphthalene	15.13	128	8511	0.616	ug/l	97

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

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampleId :

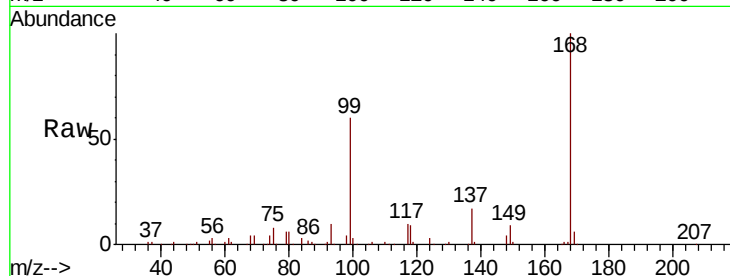
EO-02-101019

Tot Ion:168 Resp: 416270

Ion Ratio Lower Upper

168 100

99 59.9 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

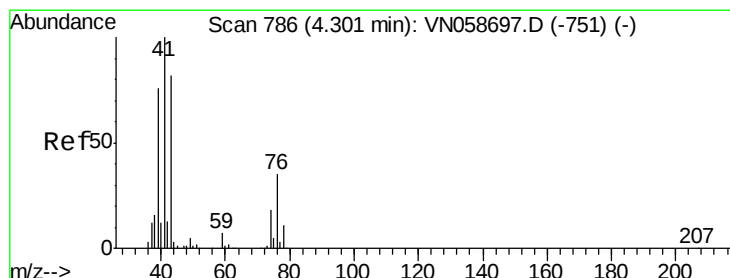
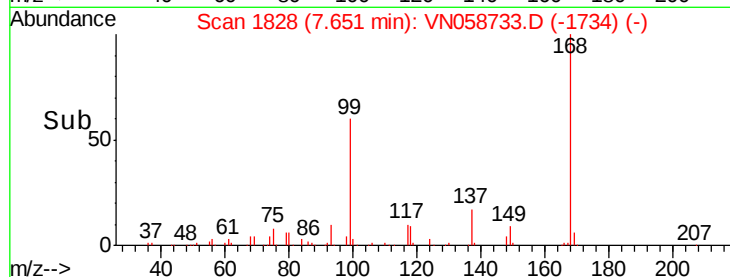
100000

50000

0

7.60 7.70 7.80

Time-->



#14

Allyl chloride

Concen: 3.097 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.23 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

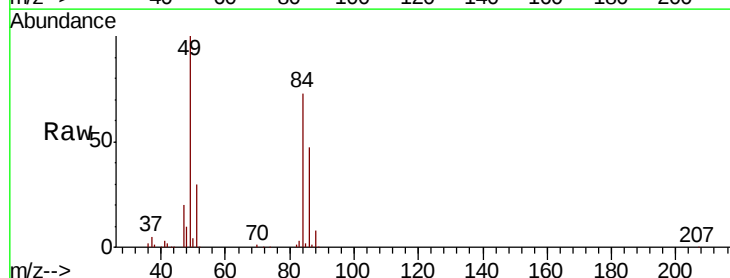
Tgt Ion: 41 Resp: 24985

Ion Ratio Lower Upper

41 100

39 0.2 57.2 85.8#

76 0.0 25.0 37.6#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.53

10000

8000

6000

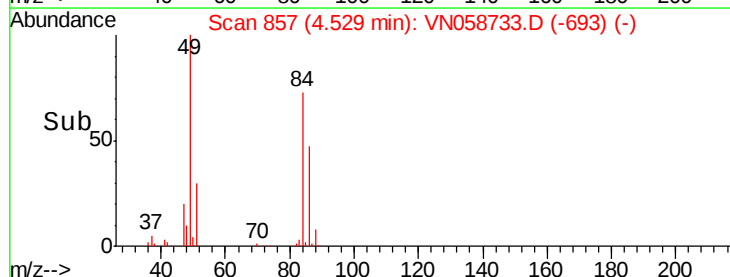
4000

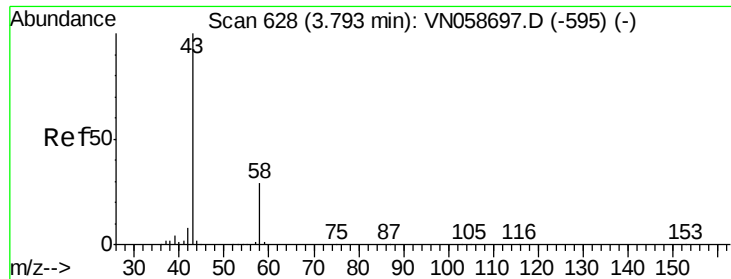
2000

0

4.40 4.45 4.50 4.55 4.60

Time-->





#16

Acetone

Concen: 9.168 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampleId :

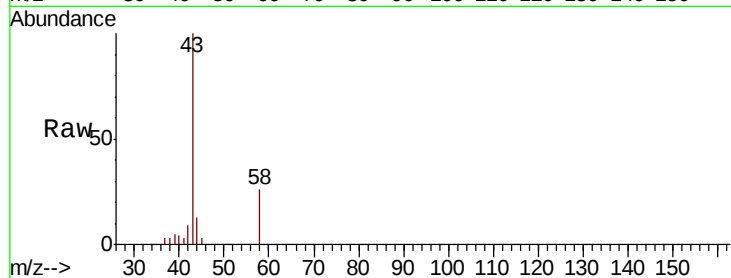
EO-02-101019

Tot Ion: 43 Resp: 22118

Ion Ratio Lower Upper

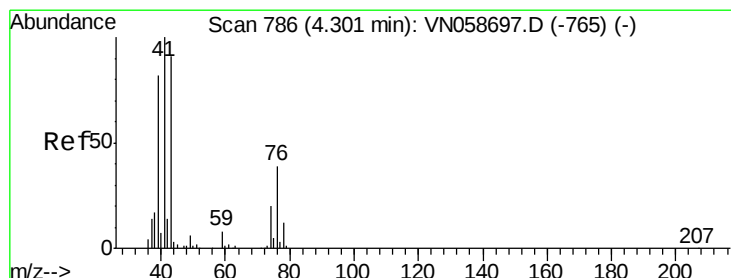
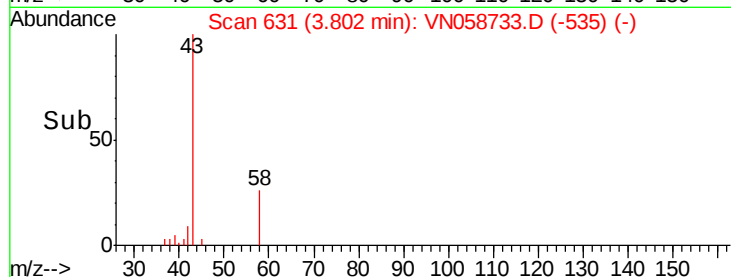
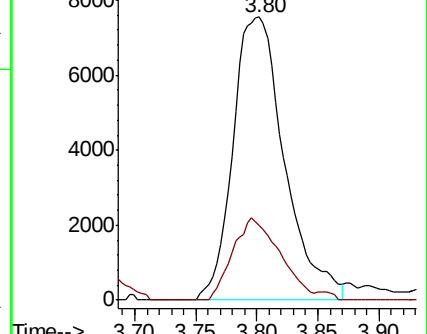
43 100

58 26.4 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.135 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN058733.D

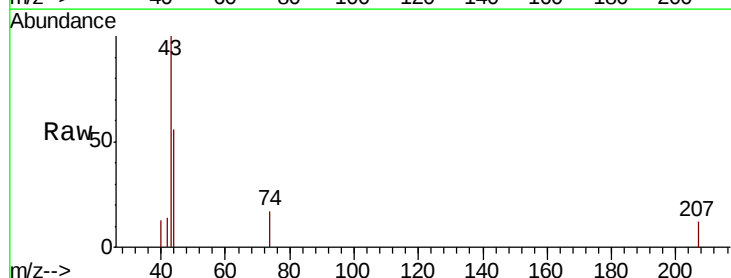
Acq: 12 Oct 2019 3:45

Tgt Ion: 43 Resp: 6949

Ion Ratio Lower Upper

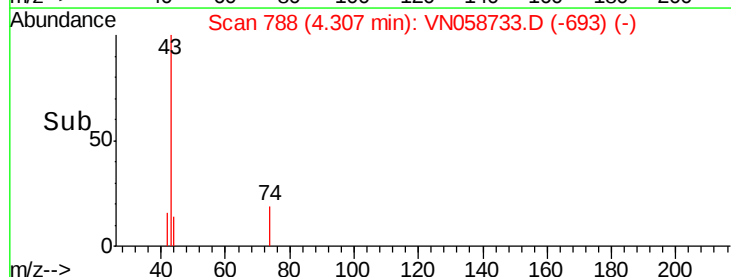
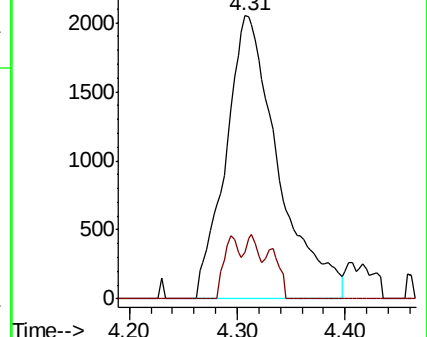
43 100

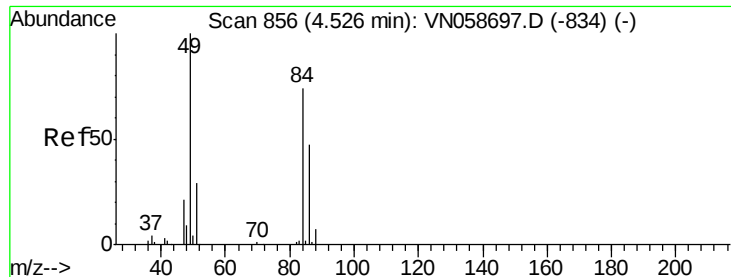
74 6.2 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

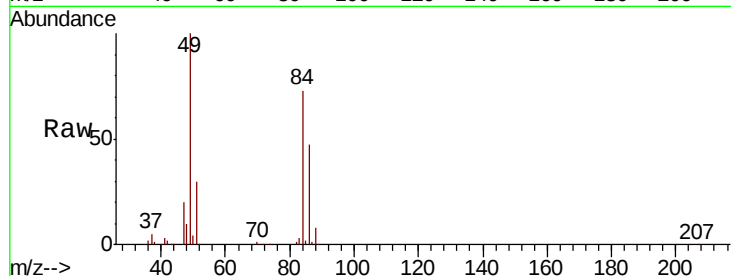




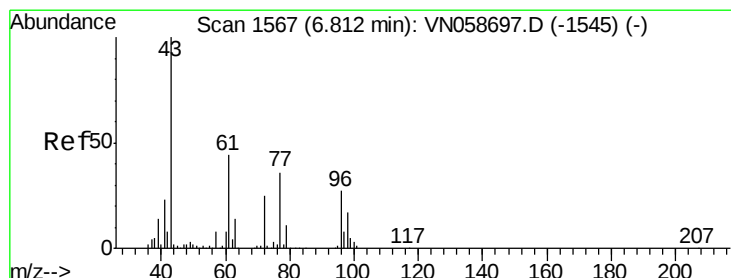
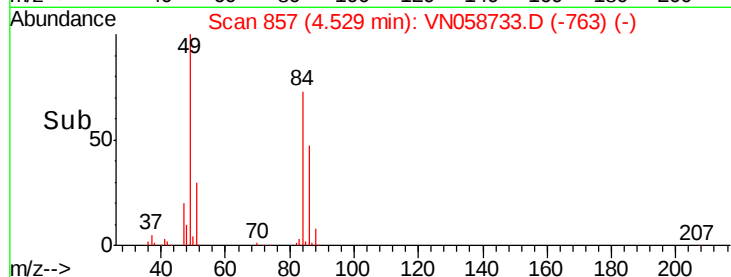
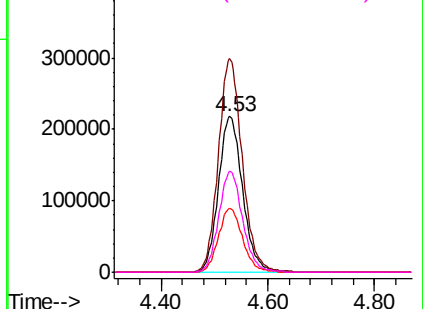
#20
Methylene Chloride
Concen: 136.392 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058733.D
Acq: 12 Oct 2019 3:45

Instrument :
MSVOA_N
ClientSampled :
EO-02-101019

Tot Ion: 84 Resp: 687730
Ion Ratio Lower Upper
84 100
49 137.2 107.6 161.4
51 41.1 31.4 47.0
86 64.6 50.3 75.5

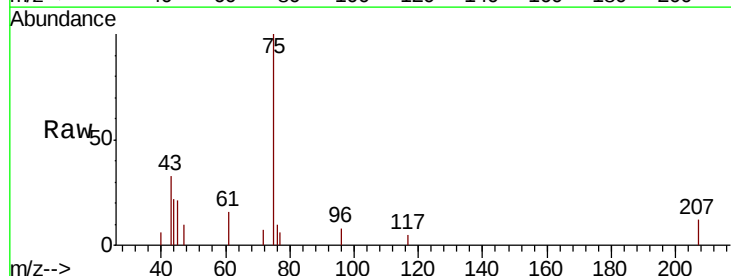


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

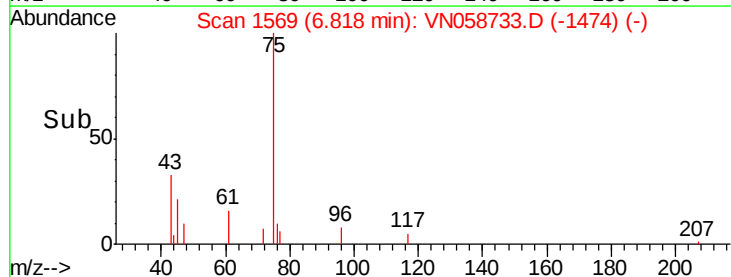
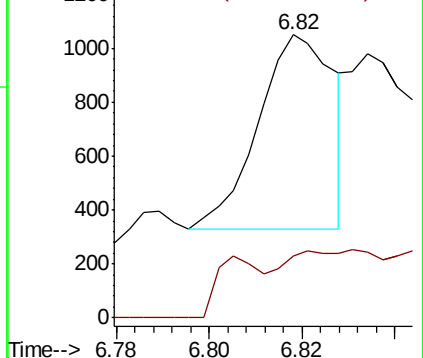


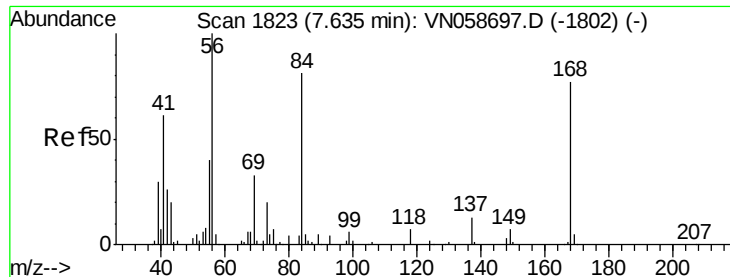
#25
2-Butanone
Concen: 0.236 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN058733.D
Acq: 12 Oct 2019 3:45

Tgt Ion: 43 Resp: 822
Ion Ratio Lower Upper
43 100
72 31.6 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

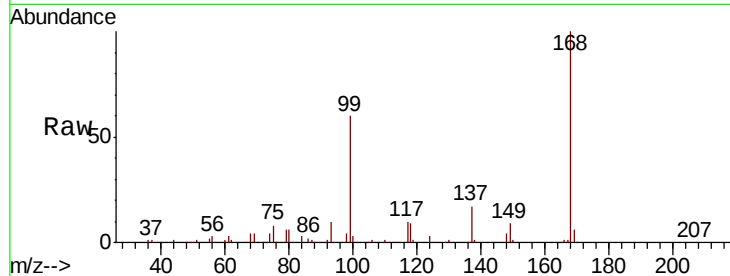




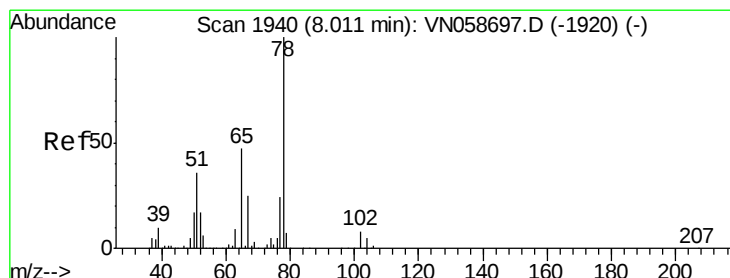
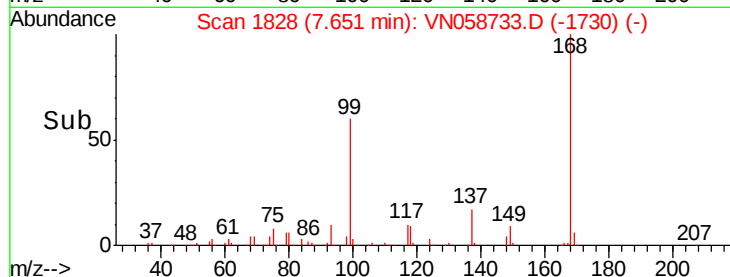
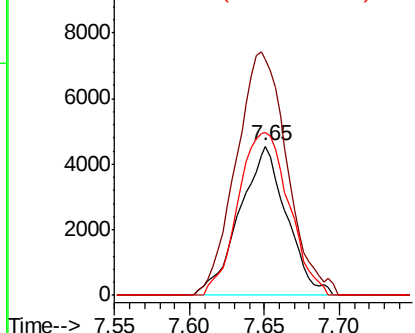
#31
Cyclohexane
Concen: 1.165 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.02 min
Lab File: VN058733.D
Acq: 12 Oct 2019 3:45

Instrument :
MSVOA_N
ClientSampleId :
EO-02-101019

Tot Ion: 56 Resp: 9961
Ion Ratio Lower Upper
56 100
69 158.1 26.2 39.4#
84 109.6 64.9 97.3#

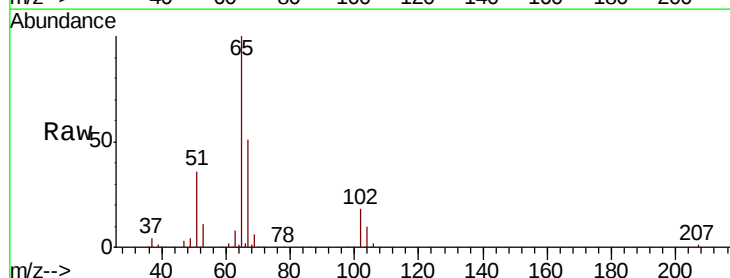


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

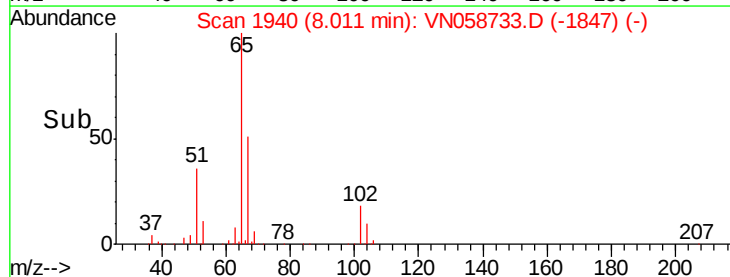
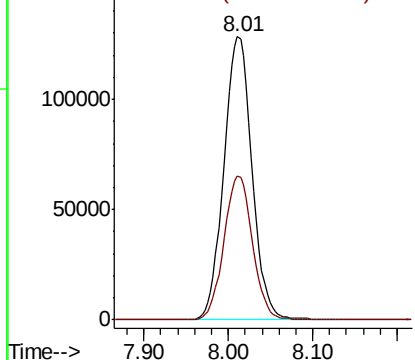


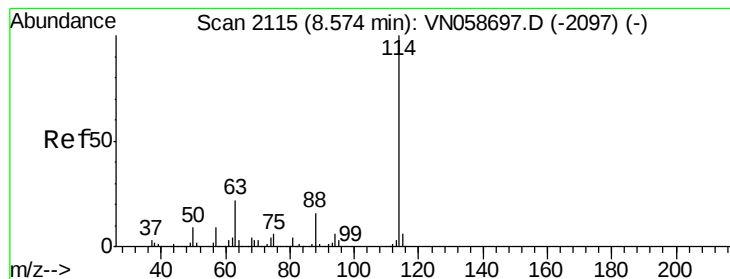
#33
1,2-Dichloroethane-d4
Concen: 51.083 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058733.D
Acq: 12 Oct 2019 3:45

Tgt Ion: 65 Resp: 297699
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampleId :

EO-02-101019

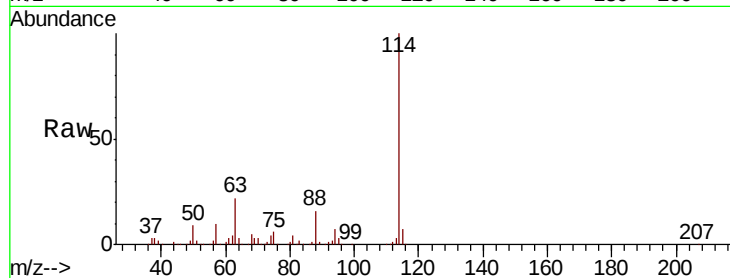
Tot Ion:114 Resp: 649942

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.8

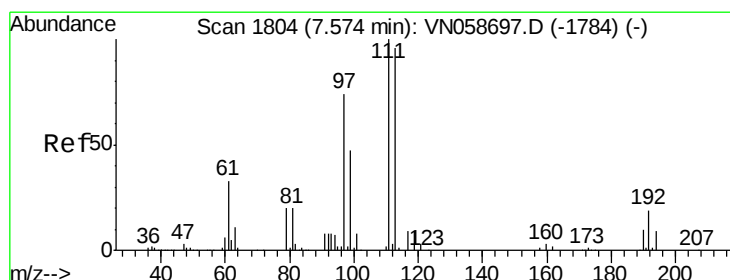
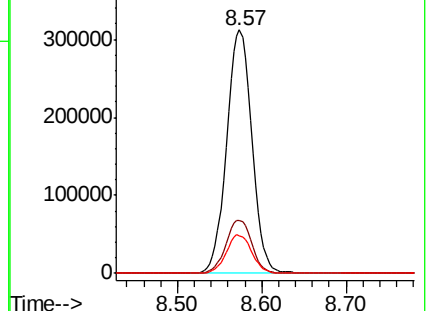
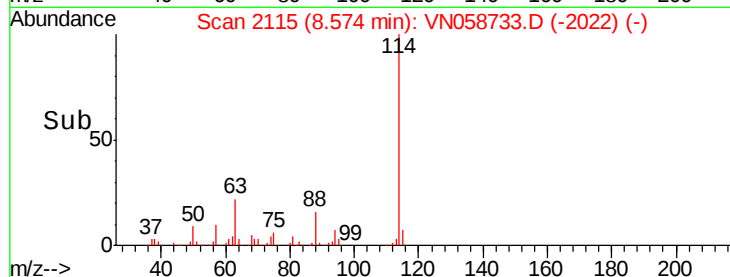
88 15.6 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 53.258 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

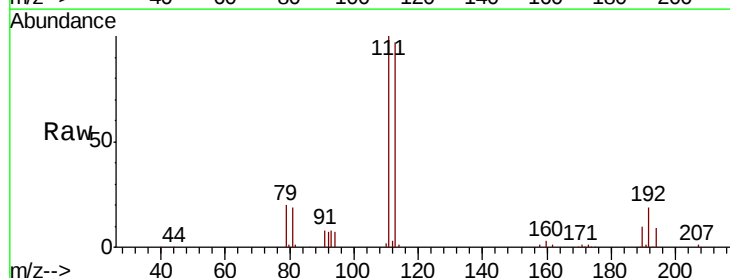
Tgt Ion:113 Resp: 213809

Ion Ratio Lower Upper

113 100

111 102.2 82.3 123.5

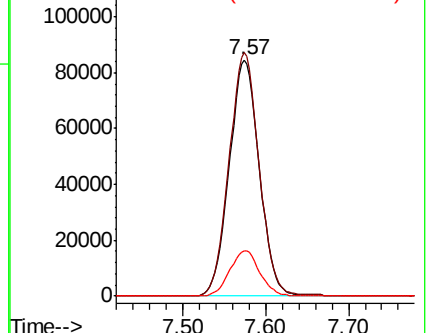
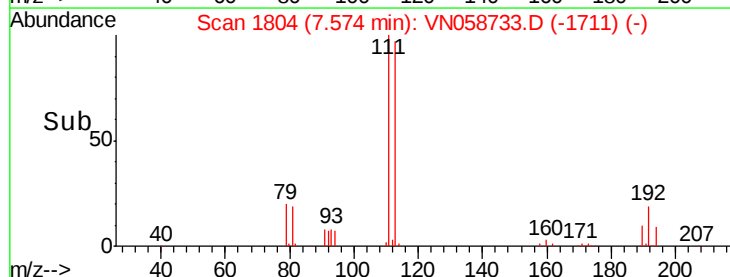
192 19.1 15.0 22.6

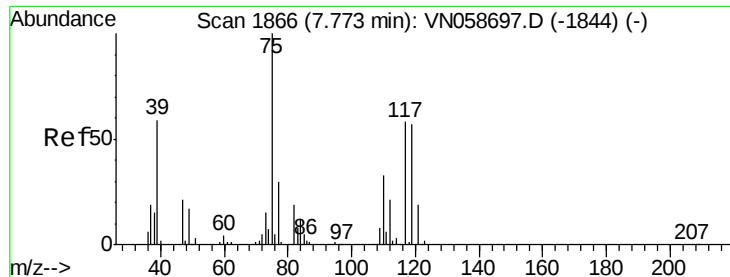


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

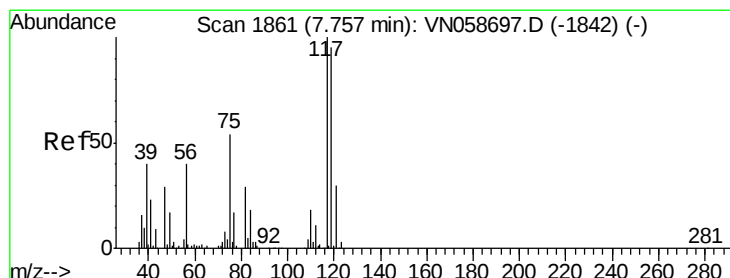
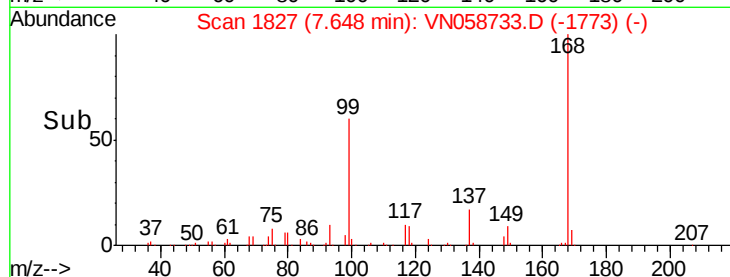
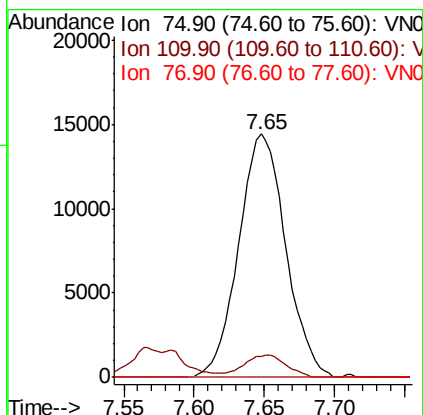
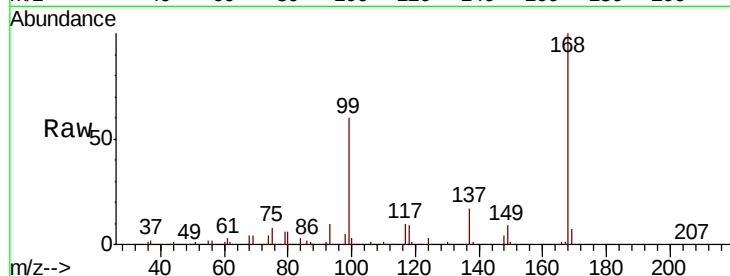




#36
 1,1-Dichloropropene
 Concen: 5.124 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058733.D
 Acq: 12 Oct 2019 3:45

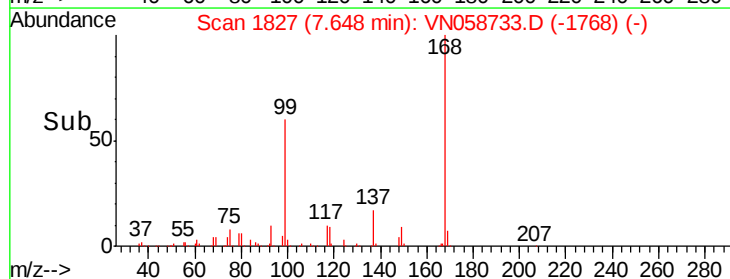
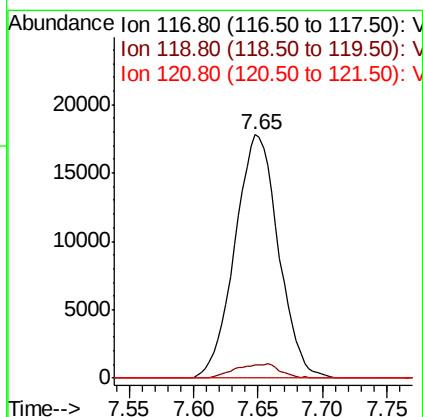
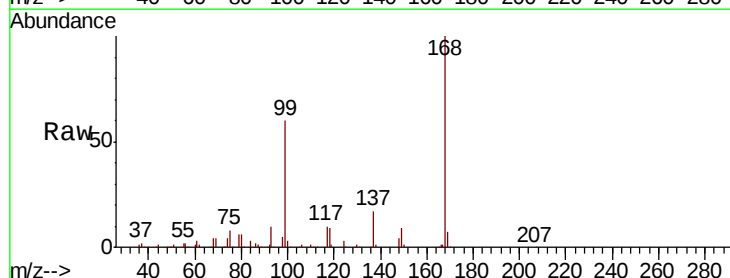
Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-101019

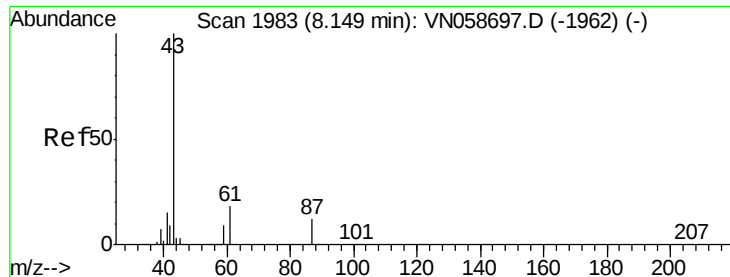
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.537 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058733.D
 Acq: 12 Oct 2019 3:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	75.7	113.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 9.208 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampleId :

EO-02-101019

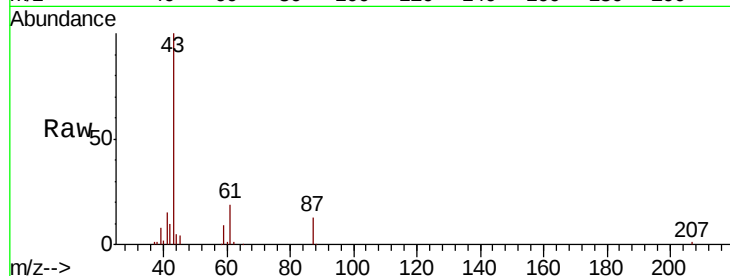
Tot Ion: 43 Resp: 104244

Ion Ratio Lower Upper

43 100

61 18.6 20.3 30.5#

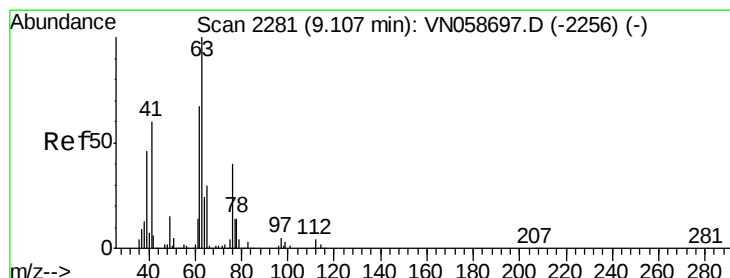
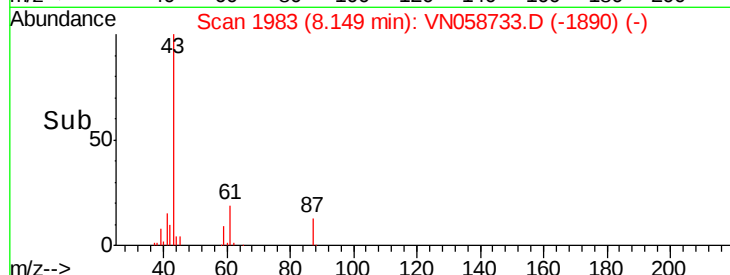
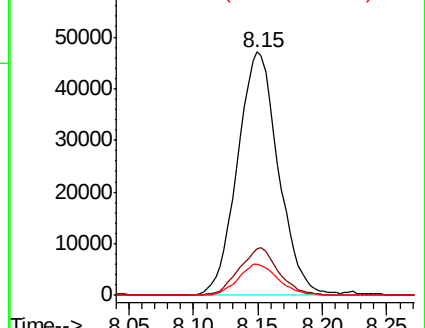
87 12.4 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.471 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058733.D

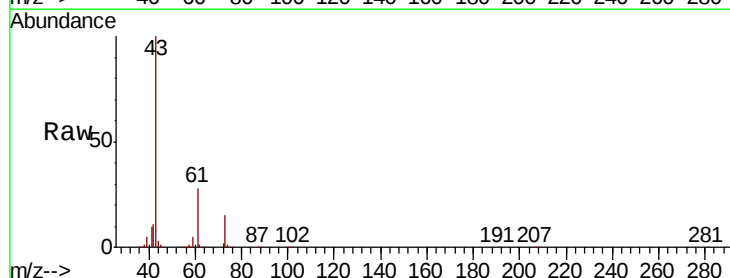
Acq: 12 Oct 2019 3:45

Tgt Ion: 63 Resp: 2378

Ion Ratio Lower Upper

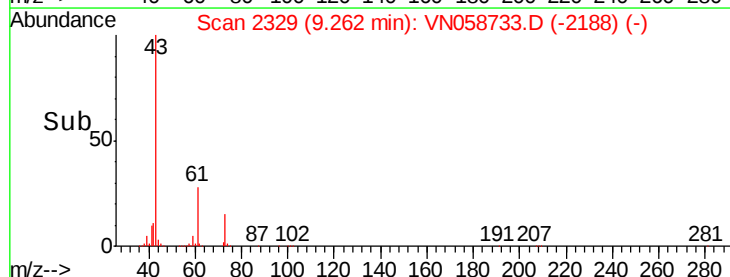
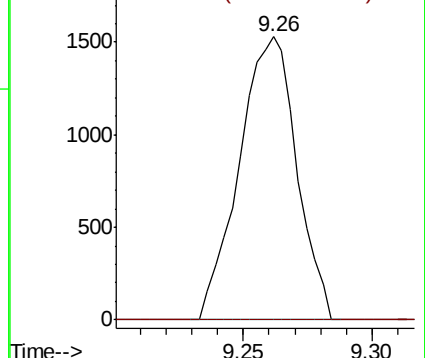
63 100

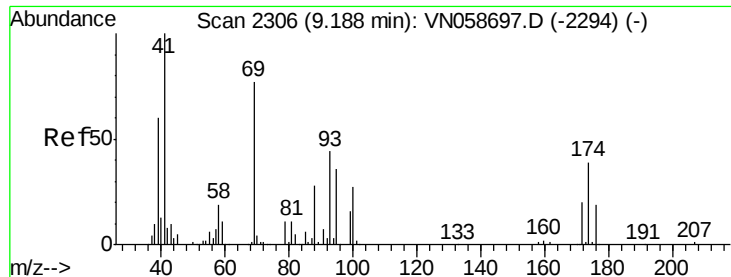
65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

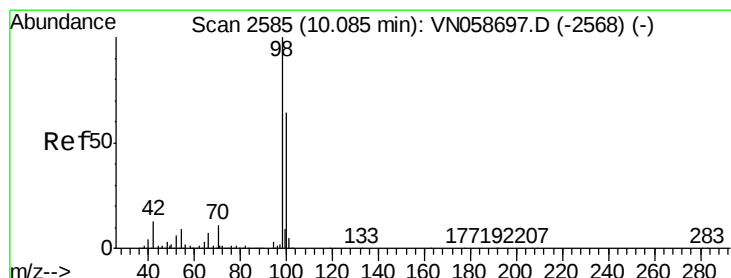
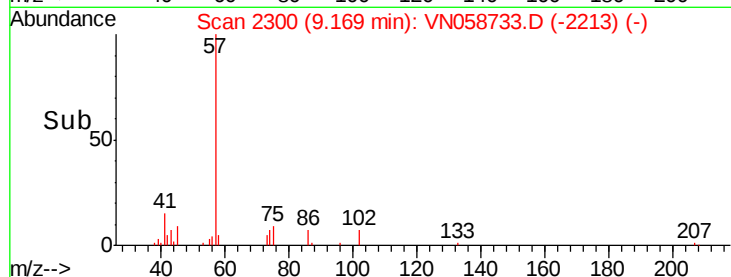
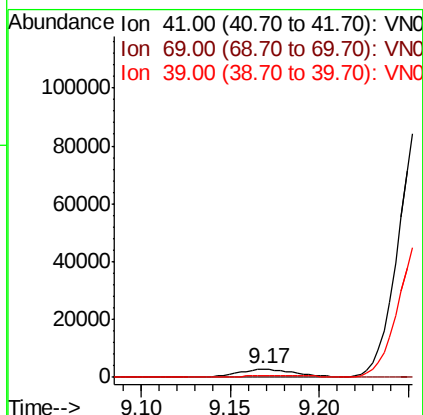
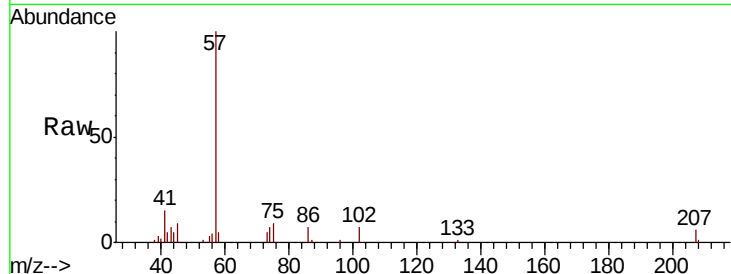




#48
Methvl methacrylate
Concen: 1.228 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058733.D
Acq: 12 Oct 2019 3:45

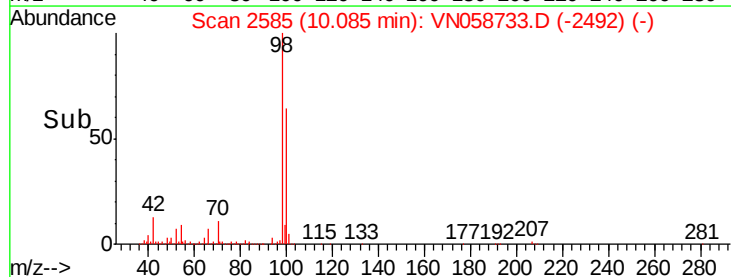
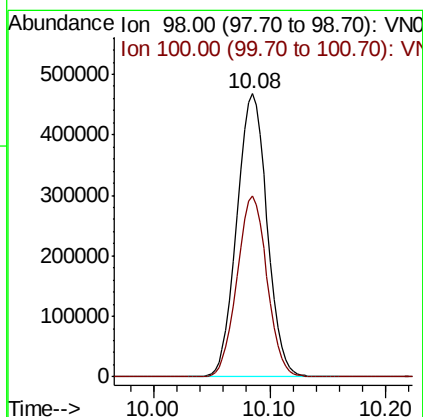
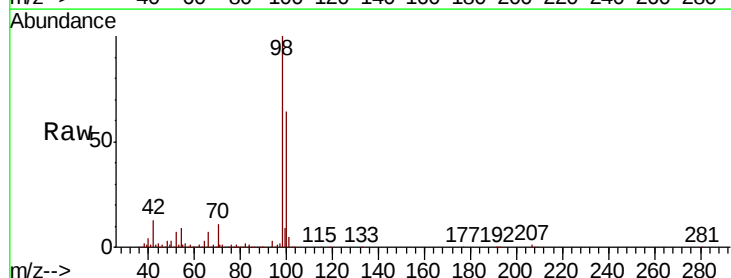
Instrument :
MSVOA_N
ClientSampleId :
EO-02-101019

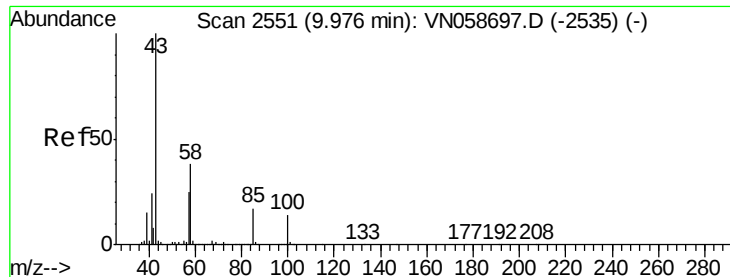
Tot Ion: 41 Resp: 6300
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#



#50
Toluene-d8
Concen: 52.773 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058733.D
Acq: 12 Oct 2019 3:45

Tgt Ion: 98 Resp: 847203
Ion Ratio Lower Upper
98 100
100 63.4 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 1.196 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampled :

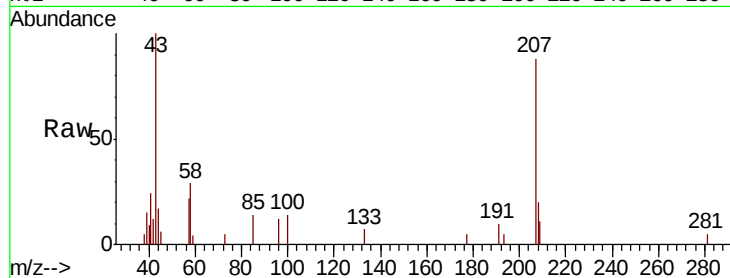
EO-02-101019

Tot Ion: 43 Resp: 7602

Ion Ratio Lower Upper

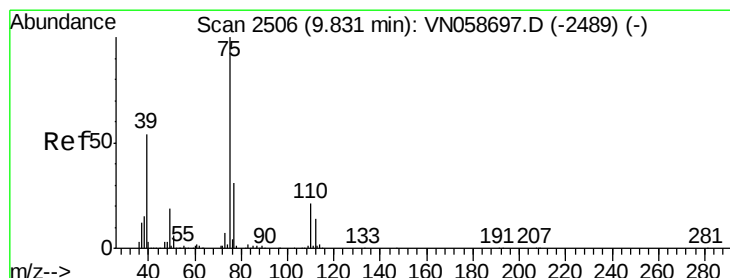
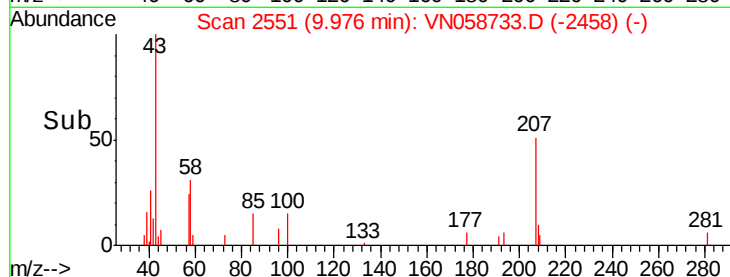
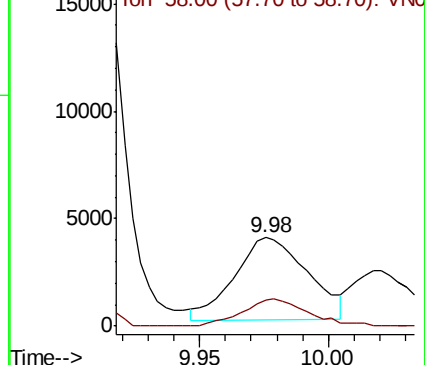
43 100

58 29.7 30.3 45.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.417 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

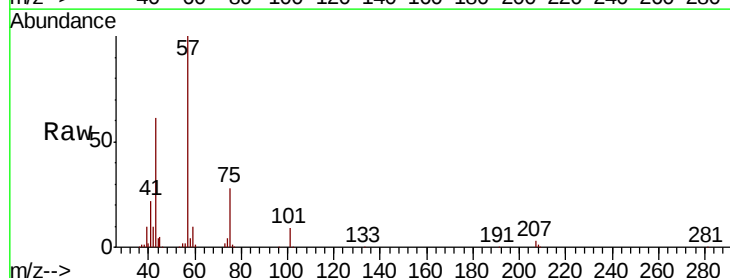
Tgt Ion: 75 Resp: 43032

Ion Ratio Lower Upper

75 100

77 0.9 24.4 36.6#

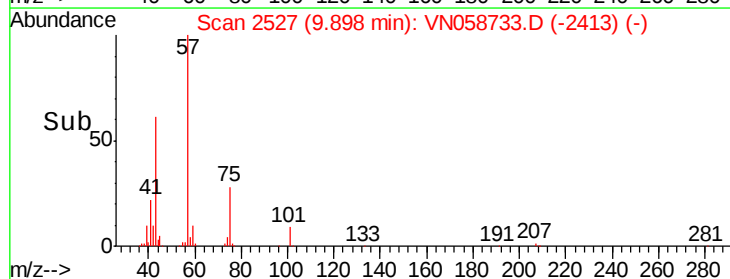
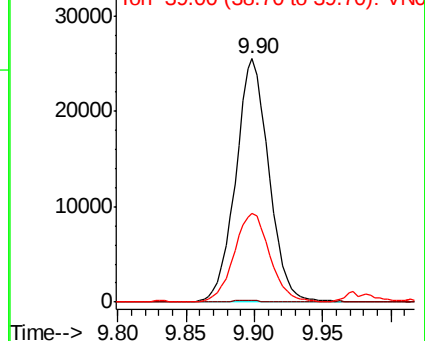
39 36.7 43.1 64.7#

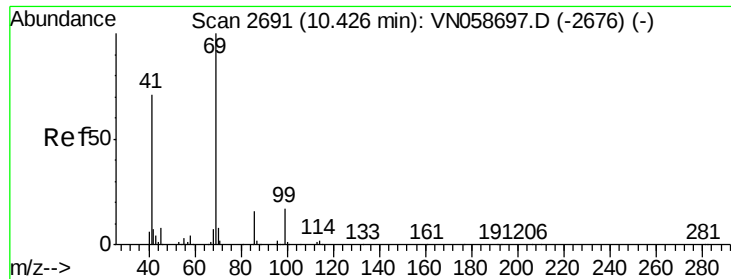


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.247 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampleId :

EO-02-101019

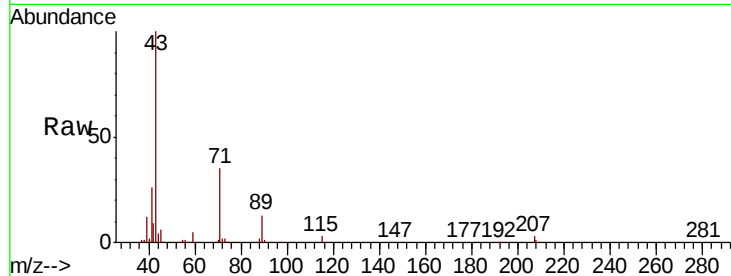
Tot Ion: 69 Resp: 1706

Ion Ratio Lower Upper

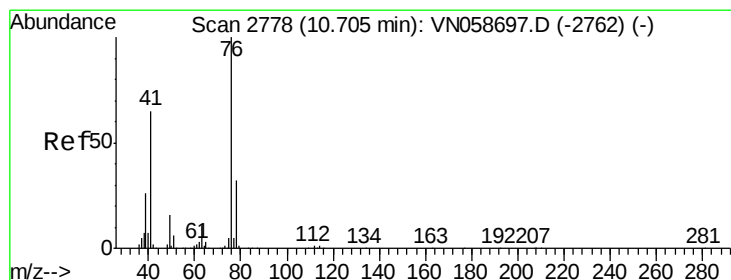
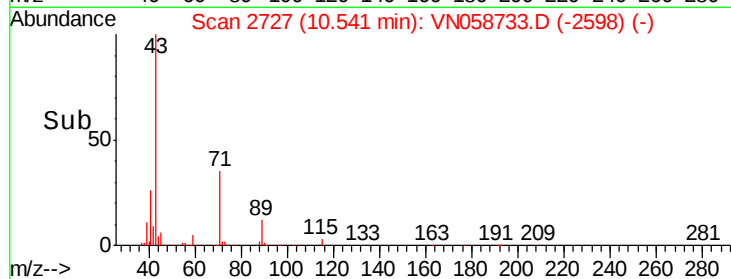
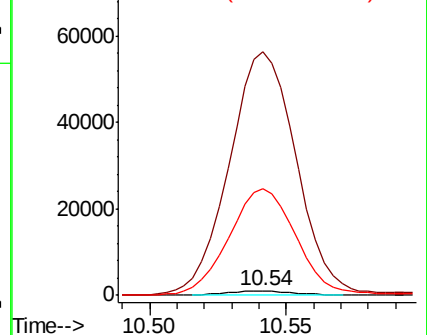
69 100

41 5674.3 56.8 85.2#

39 2491.3 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 0.933 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058733.D

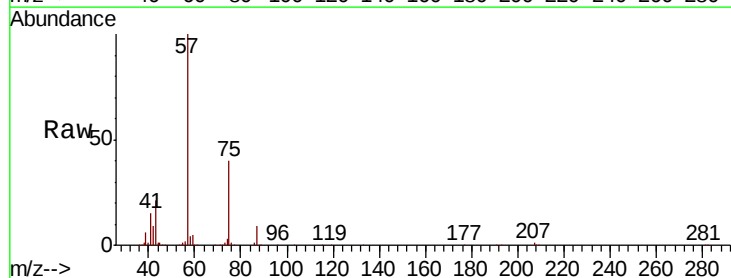
Acq: 12 Oct 2019 3:45

Tgt Ion: 76 Resp: 7514

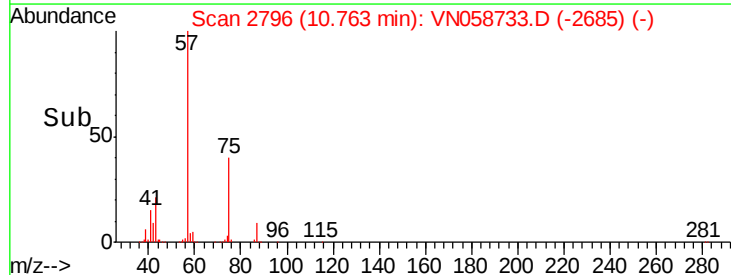
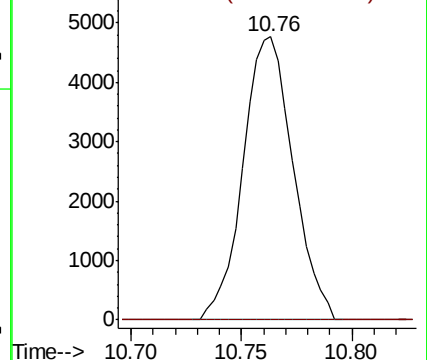
Ion Ratio Lower Upper

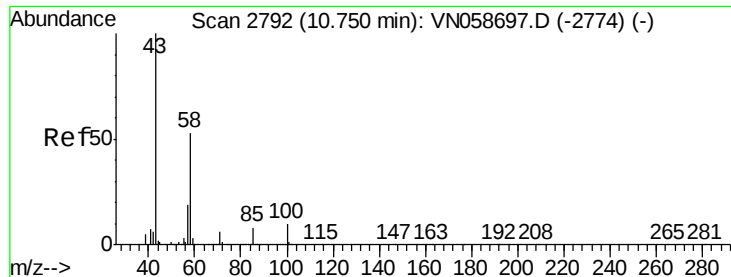
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO





#59

2-Hexanone

Concen: 23.487 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampleId :

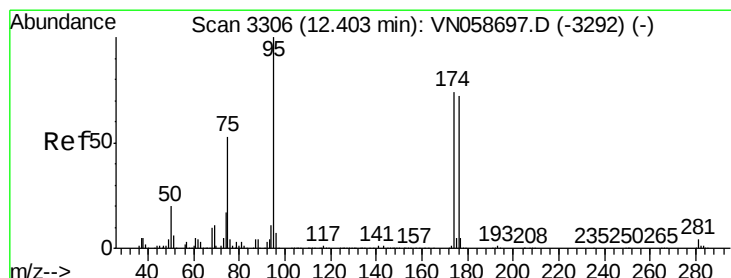
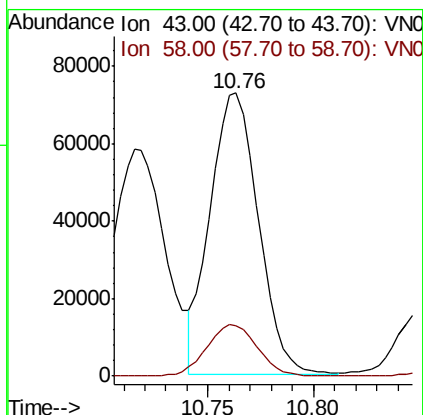
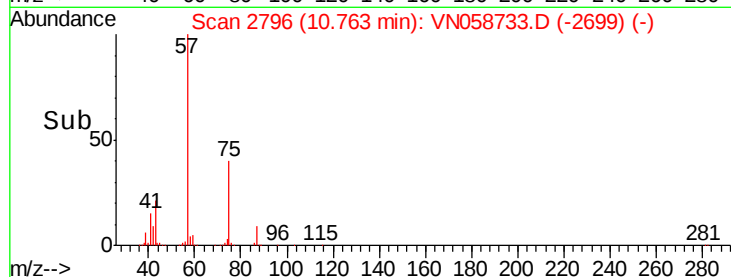
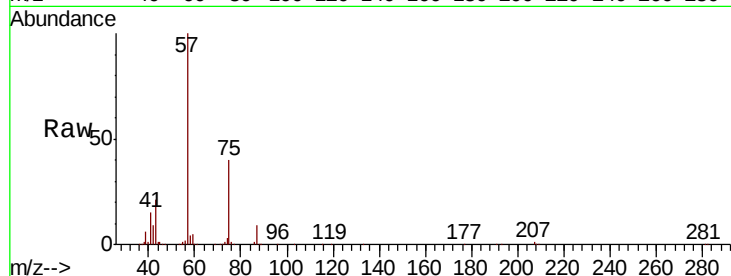
EO-02-101019

Tot Ion: 43 Resp: 115406

Ion Ratio Lower Upper

43 100

58 19.4 26.1 78.3#



#62

4-Bromofluorobenzene

Concen: 46.882 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

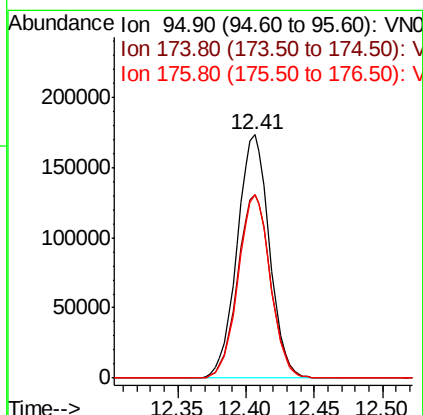
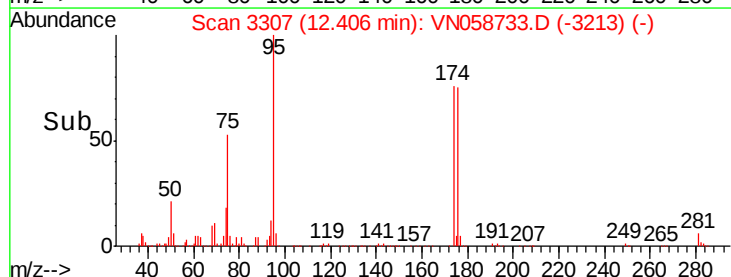
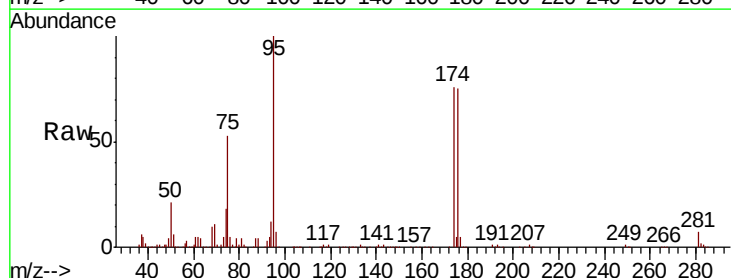
Tgt Ion: 95 Resp: 284888

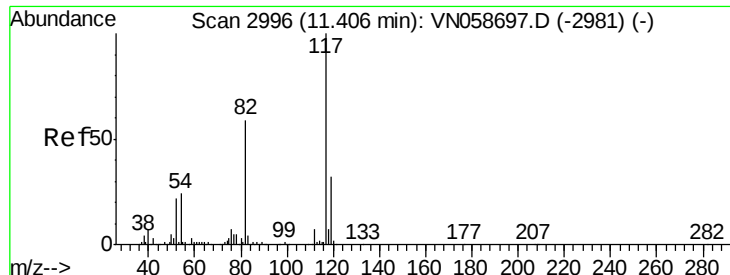
Ion Ratio Lower Upper

95 100

174 76.5 0.0 150.4

176 74.8 0.0 146.8

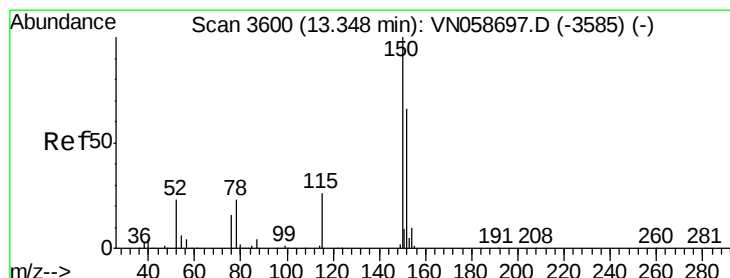
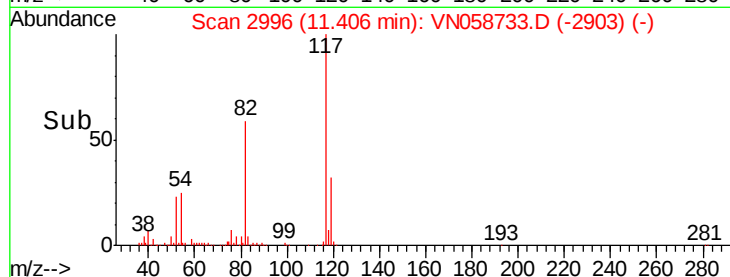
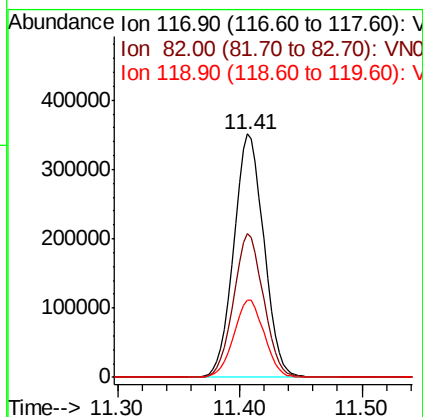
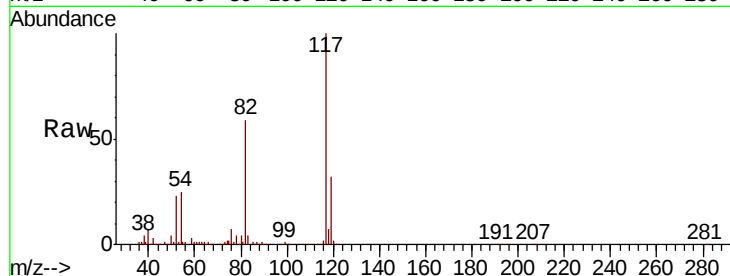




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058733.D
Acq: 12 Oct 2019 3:45

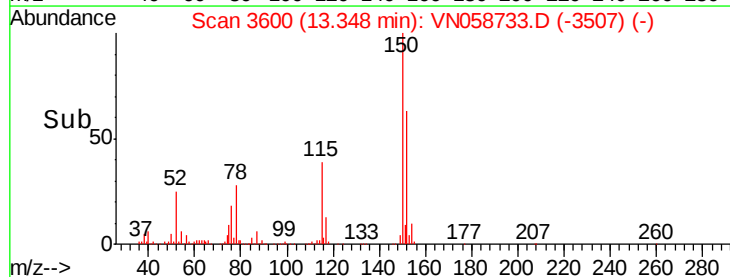
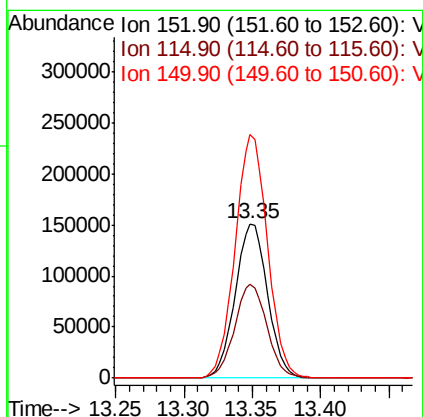
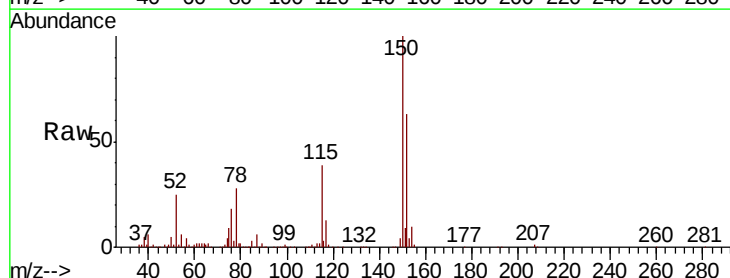
Instrument :
MSVOA_N
ClientSampleId :
EO-02-101019

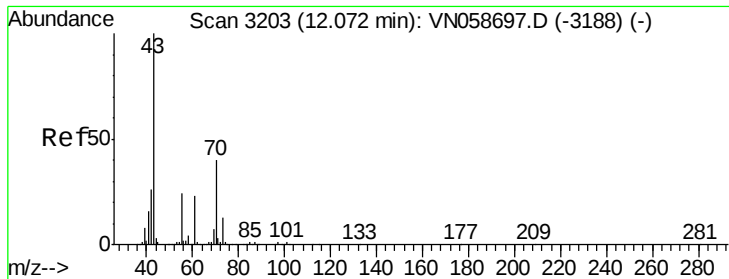
Tot Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.0	70.4
119	31.8	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN058733.D
Acq: 12 Oct 2019 3:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.8	30.4	91.2
150	157.6	0.0	345.4





#74

N-amyl acetate

Concen: 0.676 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampleId :

EO-02-101019

Tot Ion: 43 Resp: 5476

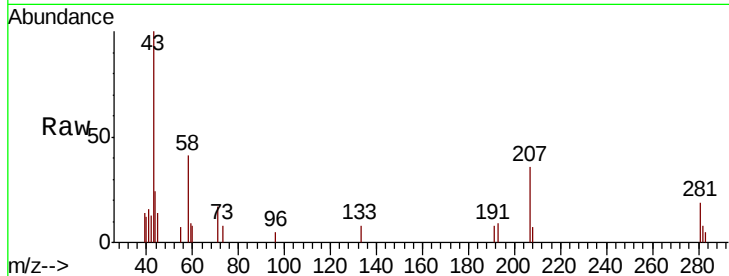
Ion Ratio Lower Upper

43 100

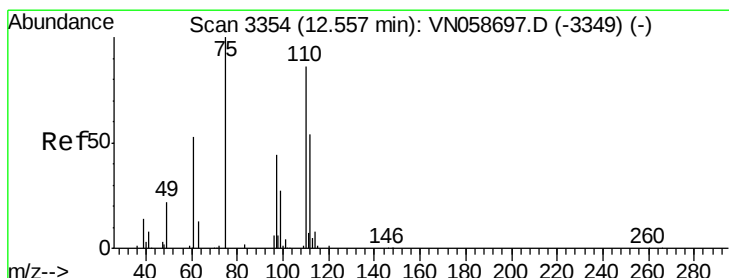
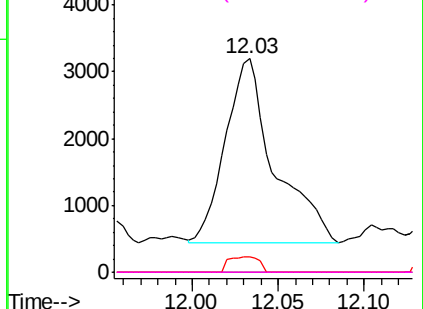
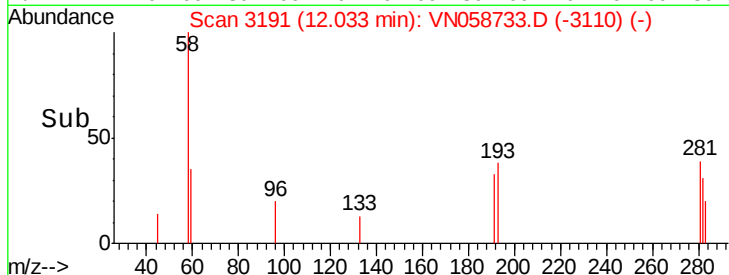
70 0.0 32.2 48.4#

55 5.2 19.6 29.4#

61 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 28.325 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058733.D

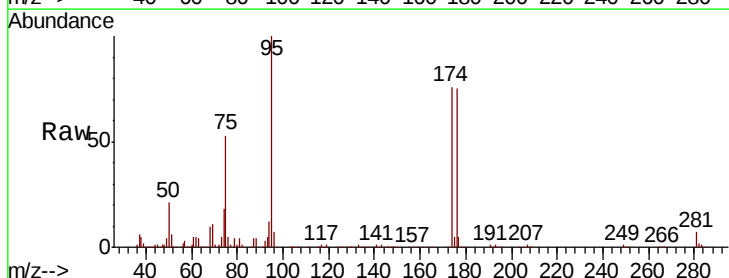
Acq: 12 Oct 2019 3:45

Tgt Ion: 75 Resp: 154636

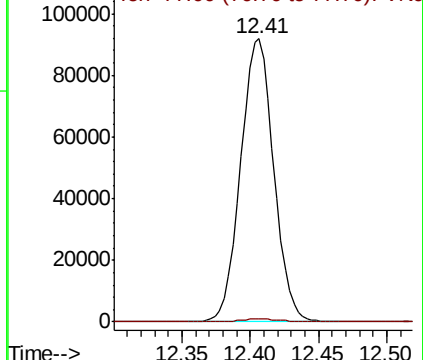
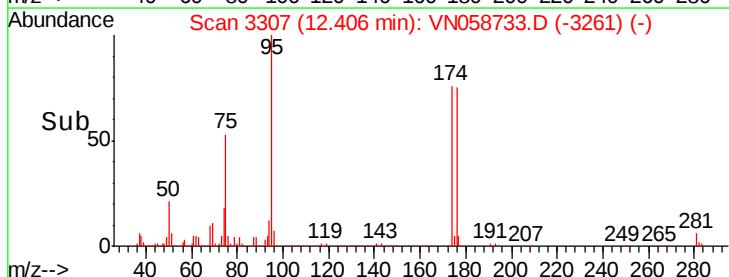
Ion Ratio Lower Upper

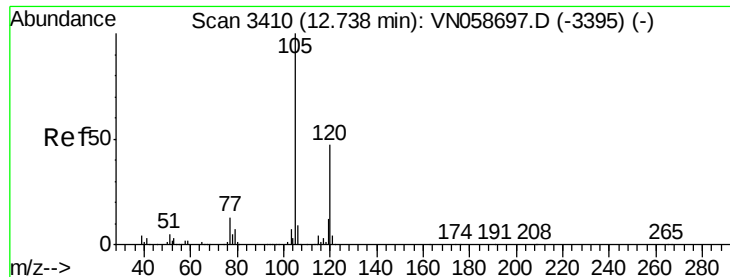
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.394 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampled :

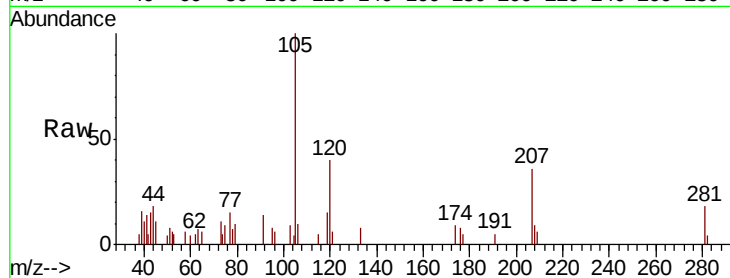
EO-02-101019

Tot Ion:105 Resp: 6060

Ion Ratio Lower Upper

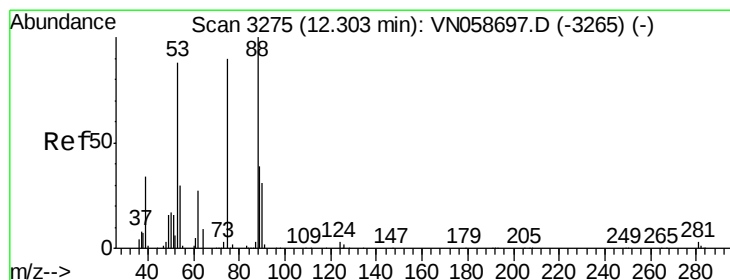
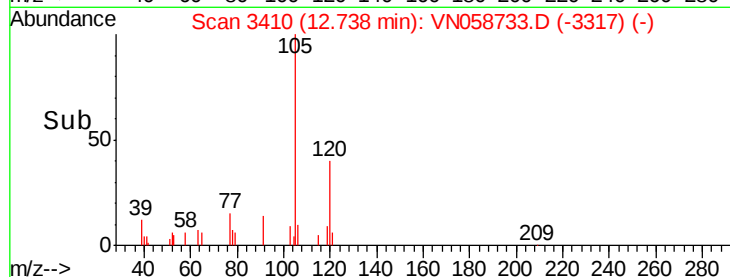
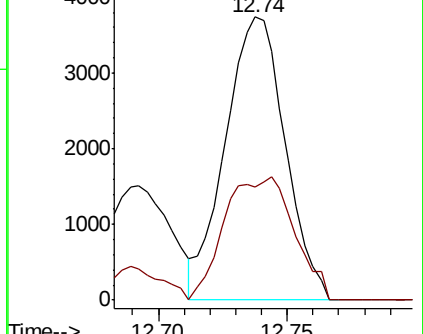
105 100

120 50.7 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 75.874 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

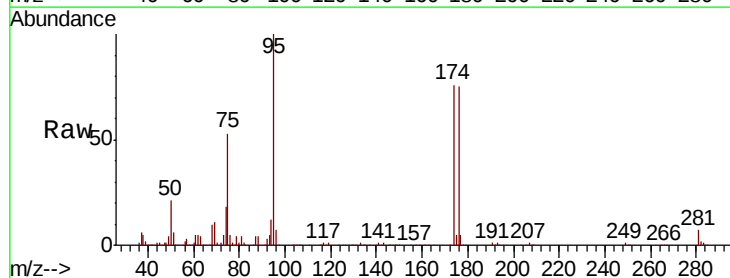
Tgt Ion: 75 Resp: 154636

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

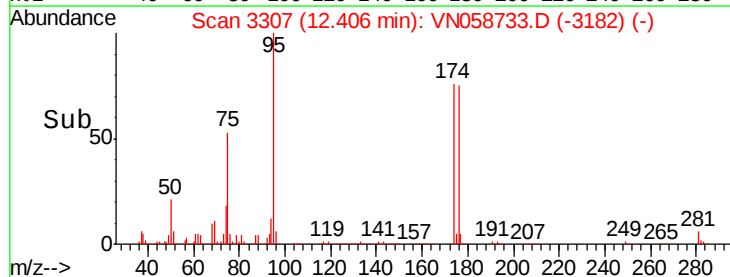
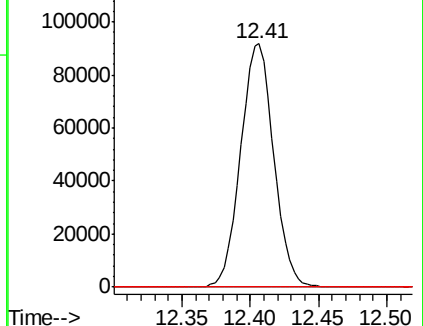
89 0.0 34.9 52.3#

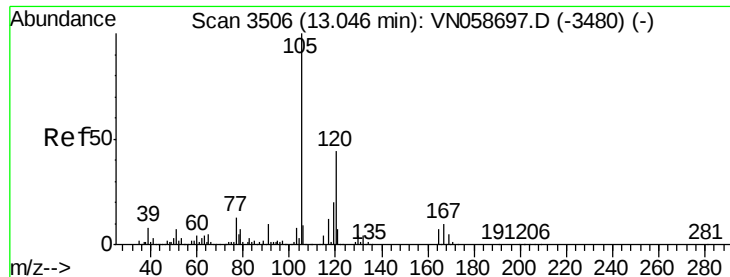


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

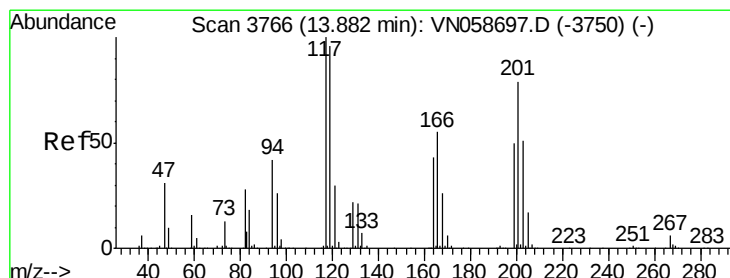
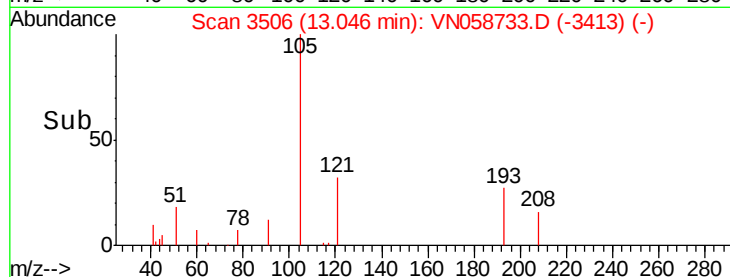
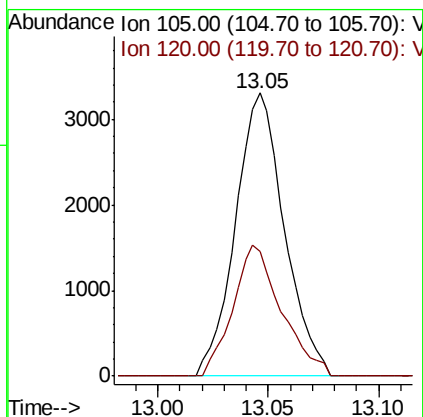
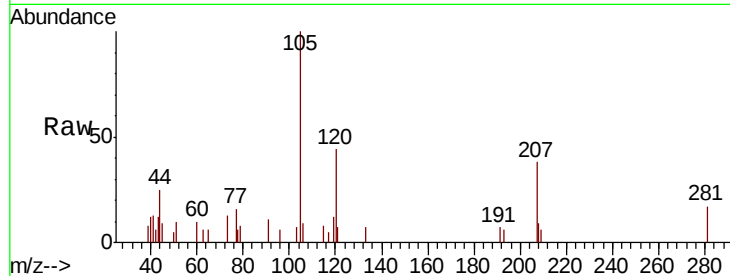




#84
 1,2,4-Trimethylbenzene
 Concen: 0.333 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. -0.00 min
 Lab File: VN058733.D
 Acq: 12 Oct 2019 3:45

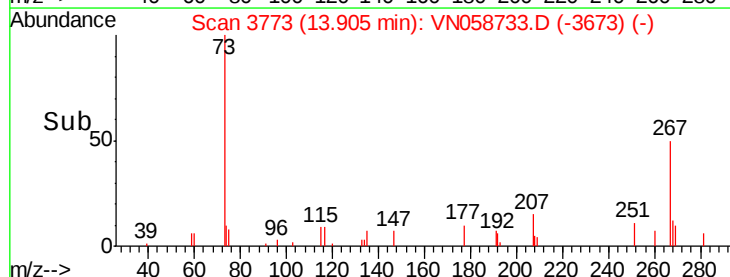
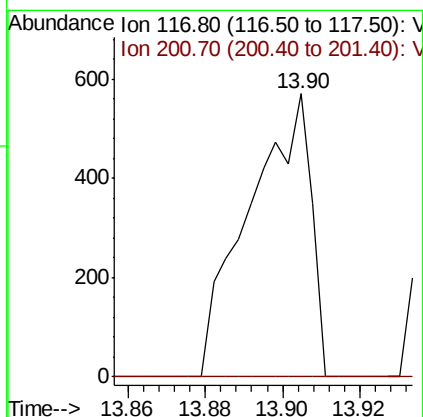
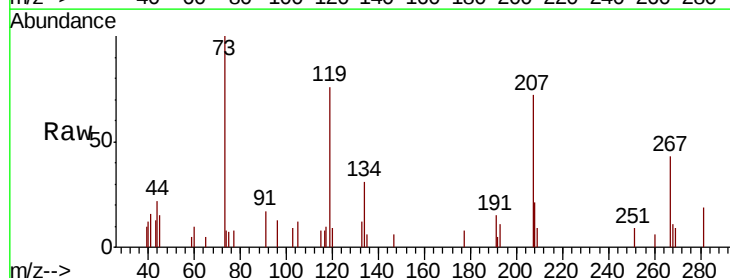
Instrument :
 MSVOA_N
 ClientSampled :
 EO-02-101019

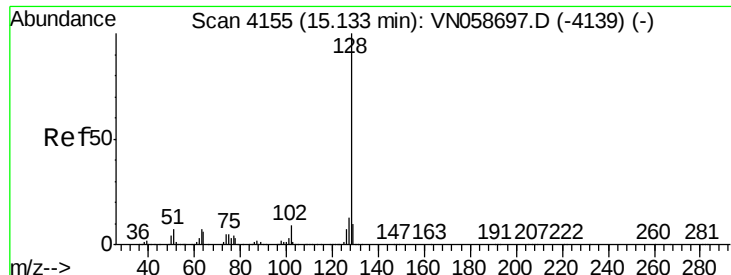
Tot Ion:105 Resp: 5080
 Ion Ratio Lower Upper
 105 100
 120 45.8 21.9 65.7



#90
 Hexachloroethane
 Concen: 0.226 ug/l
 RT: 13.90 min Scan# 3773
 Delta R.T. 0.02 min
 Lab File: VN058733.D
 Acq: 12 Oct 2019 3:45

Tgt Ion:117 Resp: 638
 Ion Ratio Lower Upper
 117 100
 201 0.0 39.6 118.7#





#95

Naphthalene

Concen: 0.616 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058733.D

Acq: 12 Oct 2019 3:45

Instrument :

MSVOA_N

ClientSampleId :

EO-02-101019

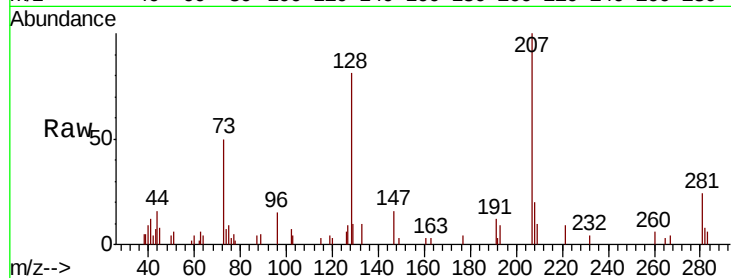
Tot Ion:128 Resp: 8511

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.4

129 11.9 8.5 12.7



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

