

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058313.D
 Acq On : 23 Sep 2019 23:39
 Operator : JC/SP
 Sample : K5002-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0515

Quant Time: Sep 24 01:39:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	463562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	769114	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	652040	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	256625	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	347830	53.87	ug/l	0.00
Spiked Amount			Recovery	=	107.74%	
35) Dibromofluoromethane	7.58	113	241491	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
50) Toluene-d8	10.09	98	969008	53.19	ug/l	0.00
Spiked Amount			Recovery	=	106.38%	
62) 4-Bromofluorobenzene	12.41	95	304026	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	

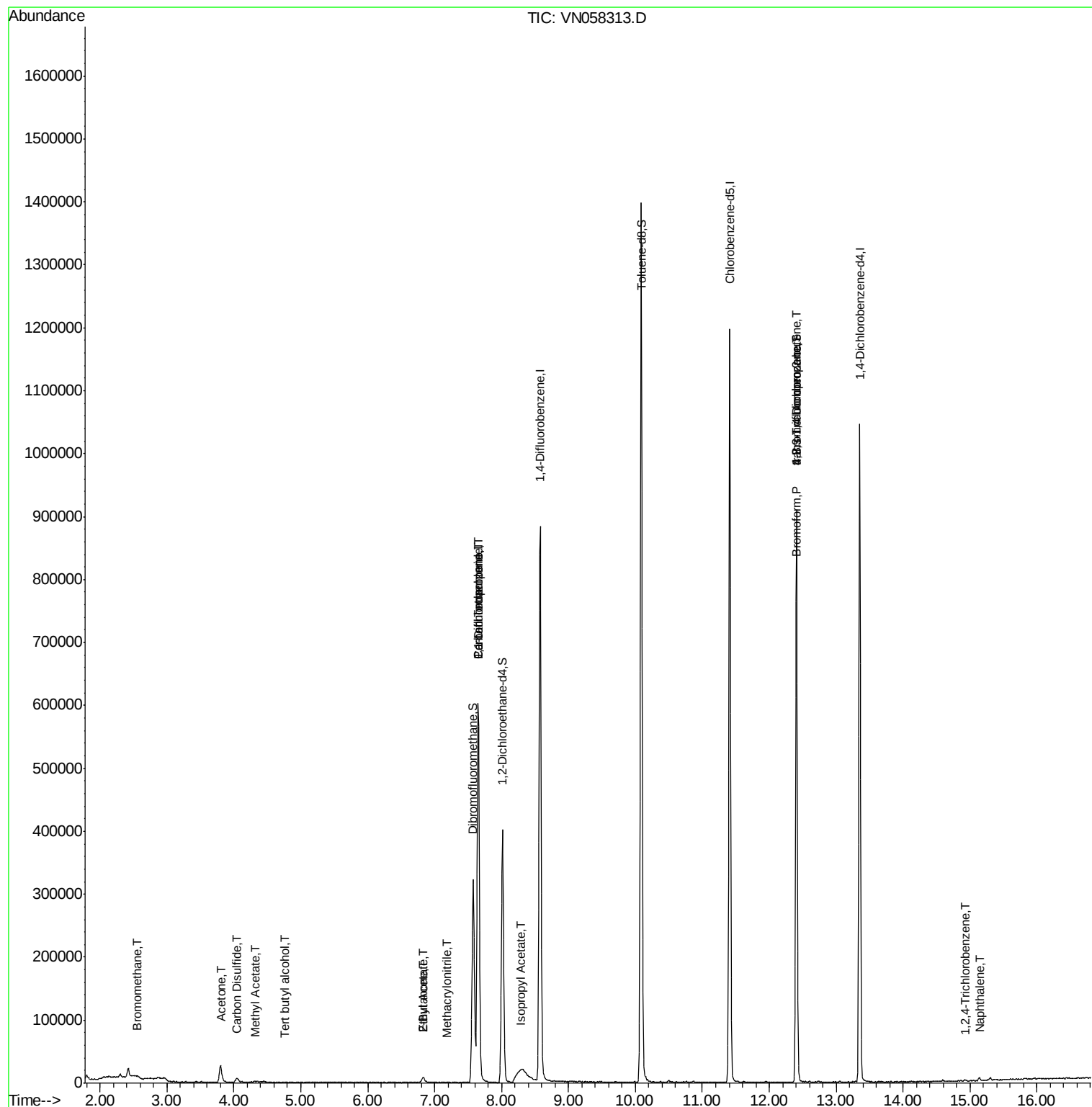
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	418	Below Cal	#	82
4) Vinyl Chloride	2.33	62	29	Below Cal	#	43
5) Bromomethane	2.55	94	223	0.852	ug/l #	30
6) Chloroethane	2.54	64	33	Below Cal	#	44
11) Tert butyl alcohol	4.76	59	226	0.294	ug/l #	71
16) Acetone	3.80	43	44246	20.189	ug/l	98
17) Carbon Disulfide	4.03	76	2548	0.904	ug/l #	74
18) Methyl Acetate	4.32	43	1560	0.271	ug/l #	53
20) Methylene Chloride	4.52	84	96	Below Cal	#	53
21) trans-1,2-Dichloroethene	5.12	96	71	Below Cal	#	1
25) 2-Butanone	6.83	43	13813	4.626	ug/l	97
31) Cyclohexane	7.65	56	12504	Below Cal	#	27
36) 1,1-Dichloropropene	7.65	75	40300	7.266	ug/l #	51
37) Ethyl Acetate	6.83	43	13813	2.400	ug/l #	79
38) Carbon Tetrachloride	7.65	117	48181	8.642	ug/l #	14
41) Methacrylonitrile	7.20	41	30	0.921	ug/l #	100
43) Isopropyl Acetate	8.27	43	25811	2.401	ug/l #	57
71) Bromoform	12.39	173	159	3.643	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	167590	36.490	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	167590	101.829	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.92	180	979	0.207	ug/l #	75
95) Naphthalene	15.14	128	4743	0.387	ug/l #	85

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Instrument :

MSVOA_N

ClientSampled :

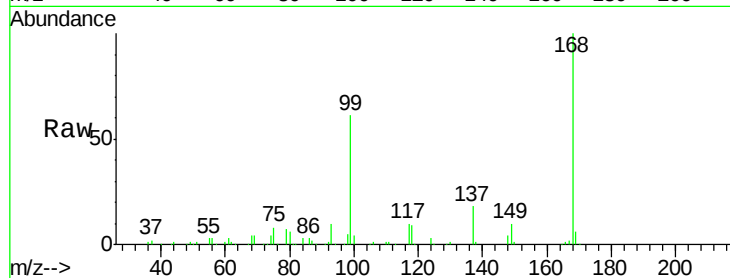
S49-0515

Tot Ion:168 Resp: 463562

Ion Ratio Lower Upper

168 100

99 61.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

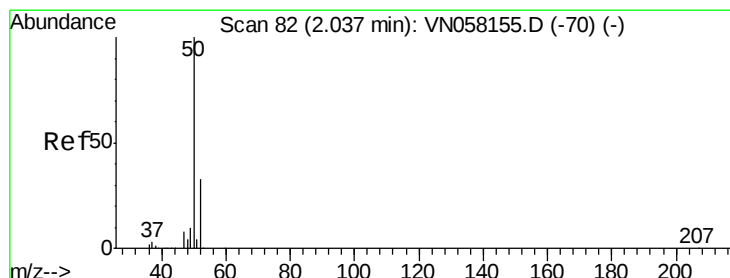
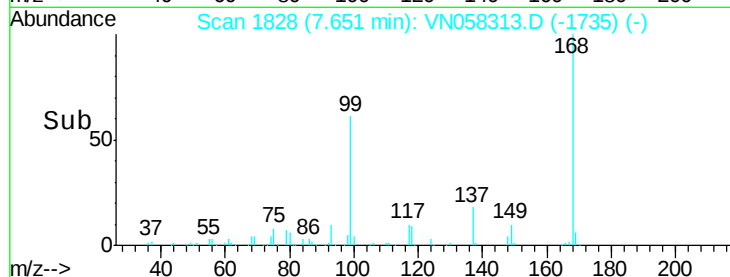
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058313.D

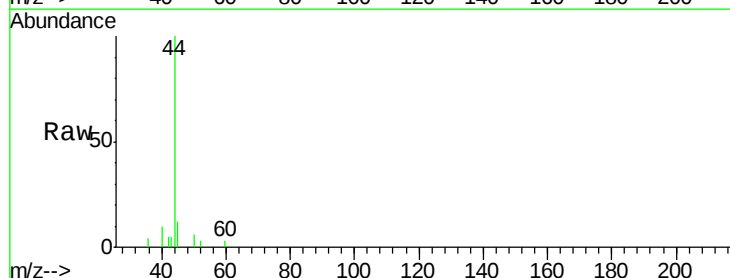
Acq: 23 Sep 2019 23:39

Tgt Ion: 50 Resp: 418

Ion Ratio Lower Upper

50 100

52 43.3 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

400

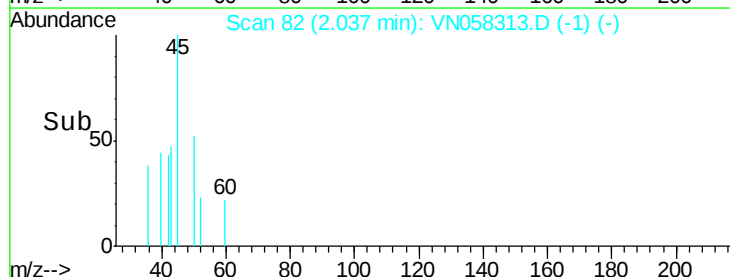
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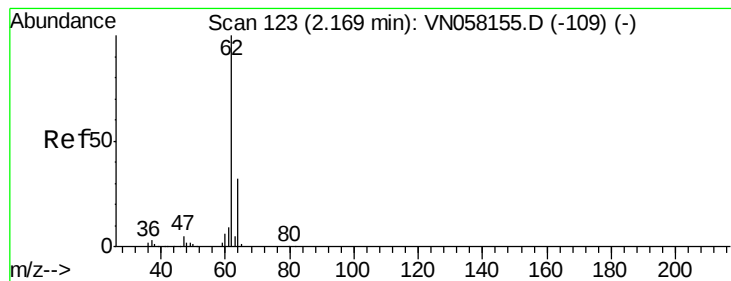
200

100

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.33 min Scan# 174

Delta R.T. 0.16 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Instrument :

MSVOA_N

ClientSampleId :

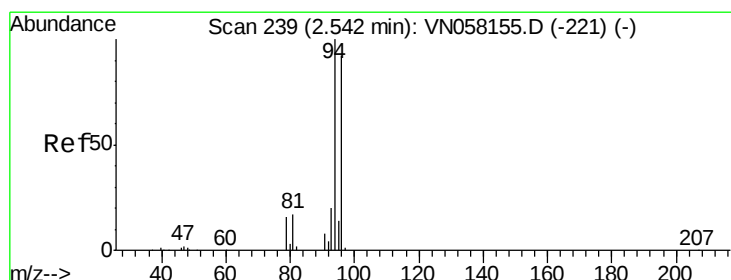
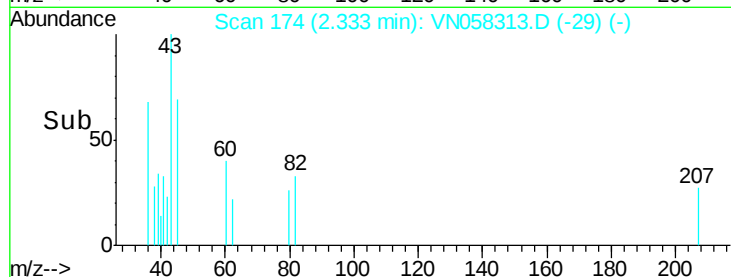
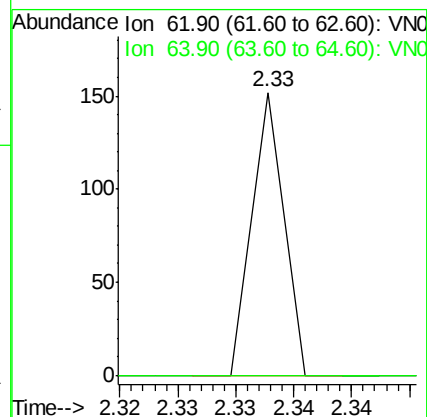
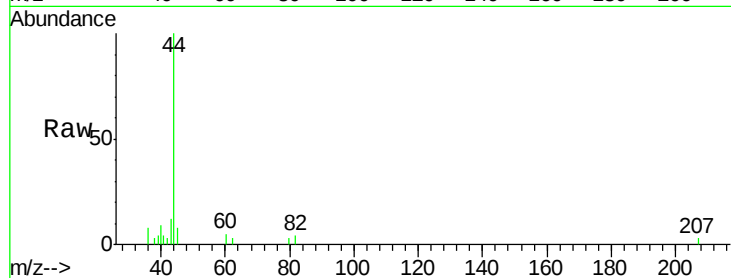
S49-0515

Tot Ion: 62 Resp: 29

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



#5

Bromomethane

Concen: 0.852 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058313.D

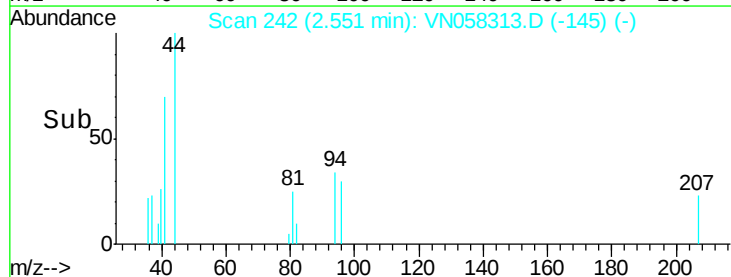
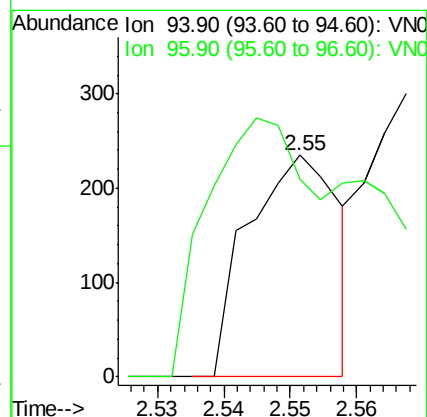
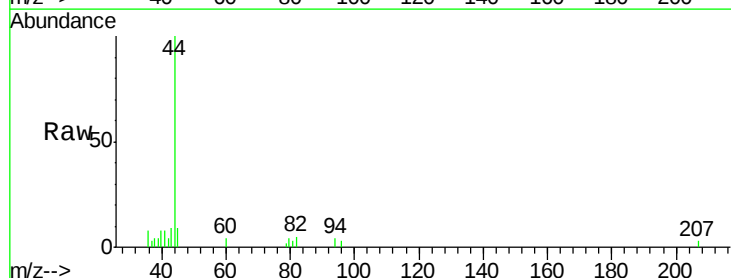
Acq: 23 Sep 2019 23:39

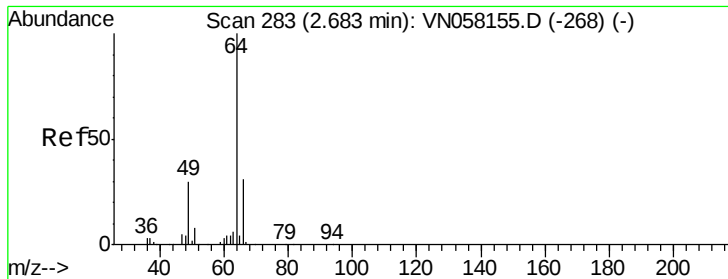
Tgt Ion: 94 Resp: 223

Ion Ratio Lower Upper

94 100

96 25.1 73.3 109.9#





#6

Chloroethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. -0.14 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Instrument :

MSVOA_N

ClientSampleId :

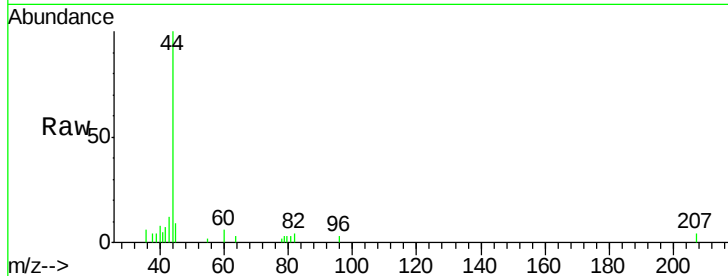
S49-0515

Tot Ion: 64 Resp: 33

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.54

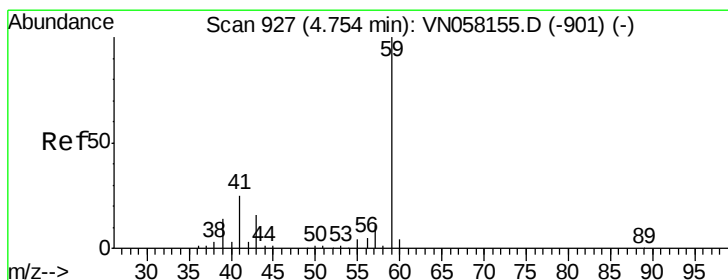
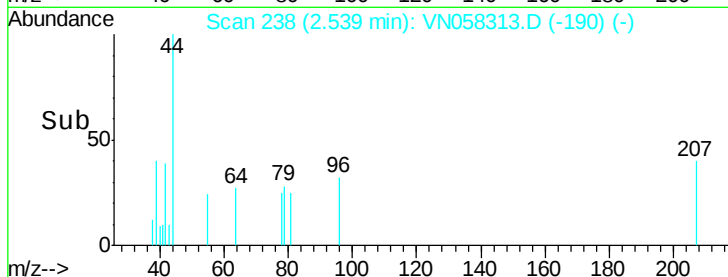
150

100

50

0

Time-->



#11

Tert butyl alcohol

Concen: 0.294 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN058313.D

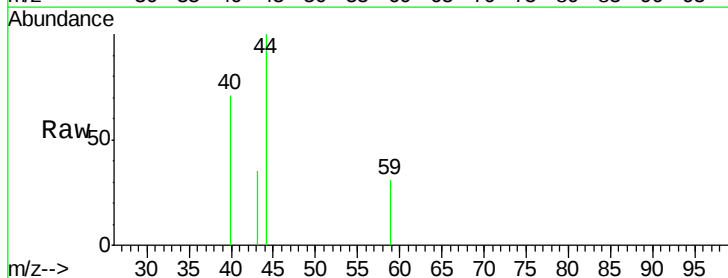
Acq: 23 Sep 2019 23:39

Tgt Ion: 59 Resp: 226

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.76

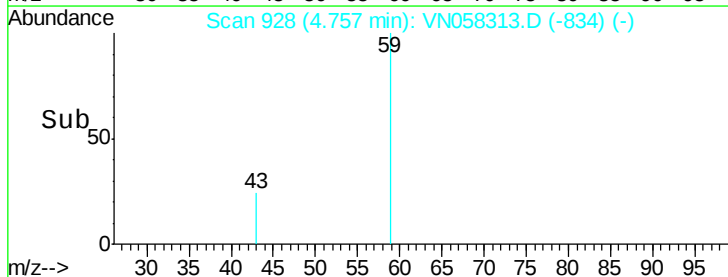
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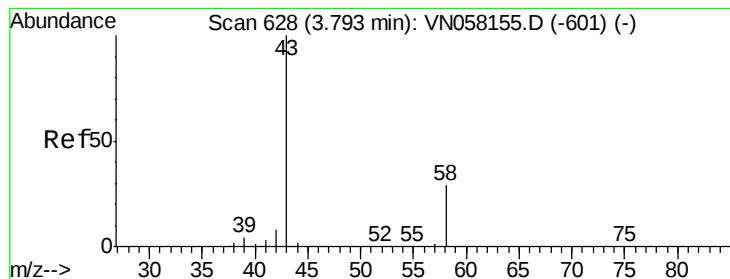
100

50

0

Time-->





#16

Acetone

Concen: 20.189 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Instrument :

MSVOA_N

ClientSampleId :

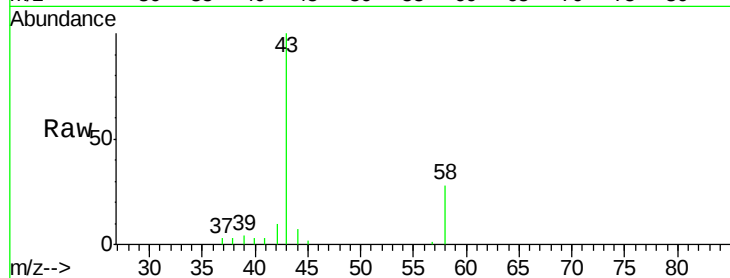
S49-0515

Tot Ion: 43 Resp: 44246

Ion Ratio Lower Upper

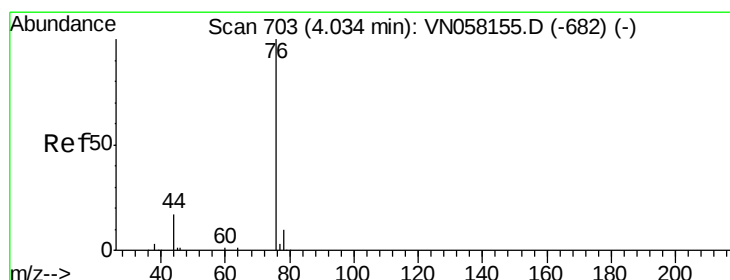
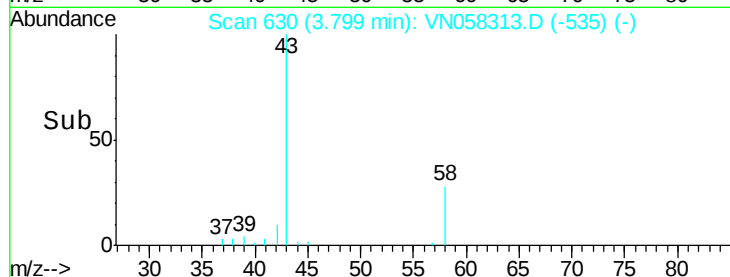
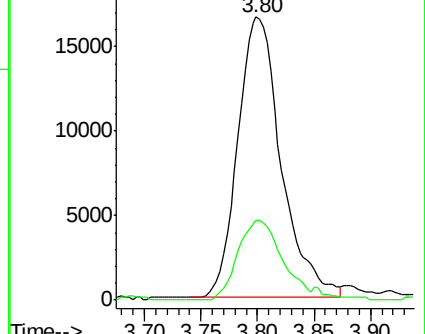
43 100

58 28.3 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.904 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058313.D

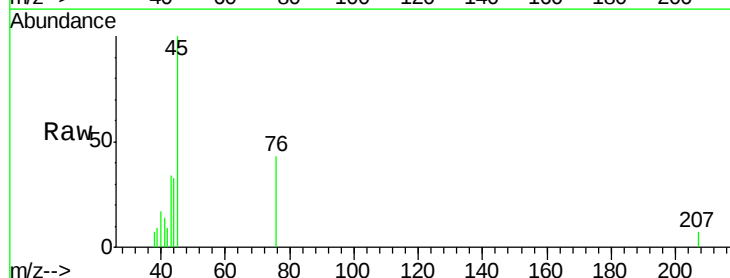
Acq: 23 Sep 2019 23:39

Tgt Ion: 76 Resp: 2548

Ion Ratio Lower Upper

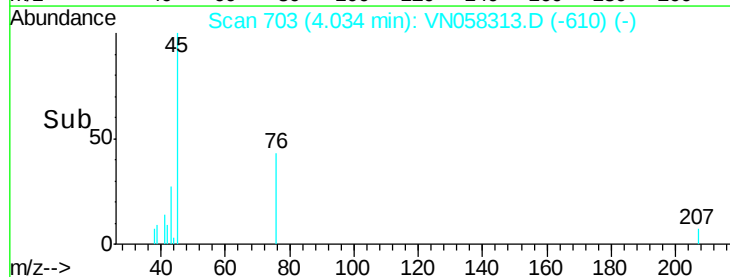
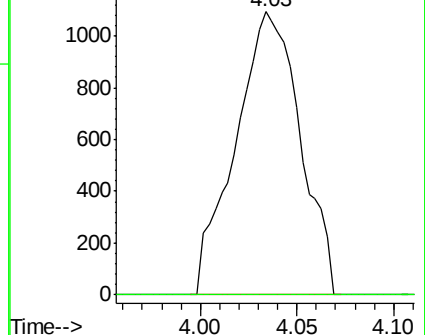
76 100

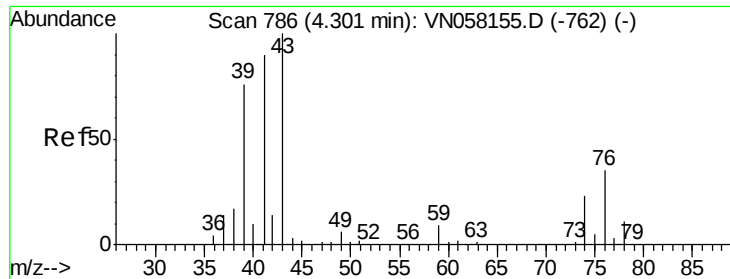
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

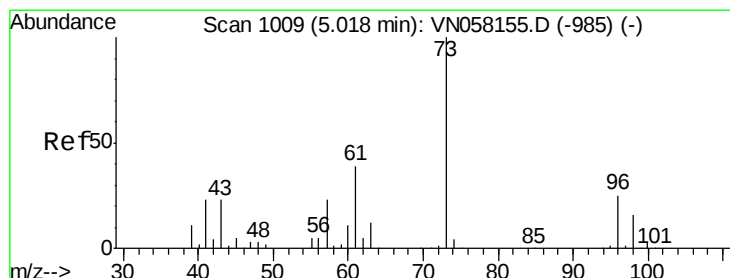
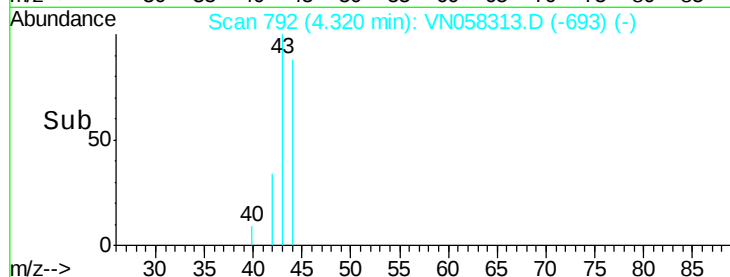
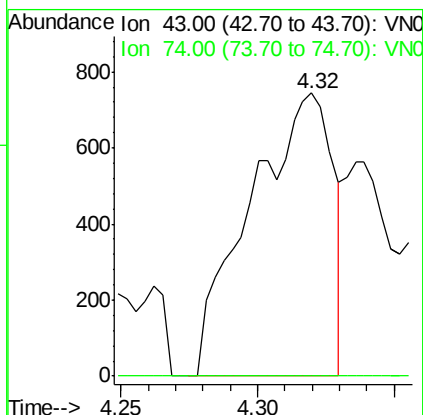
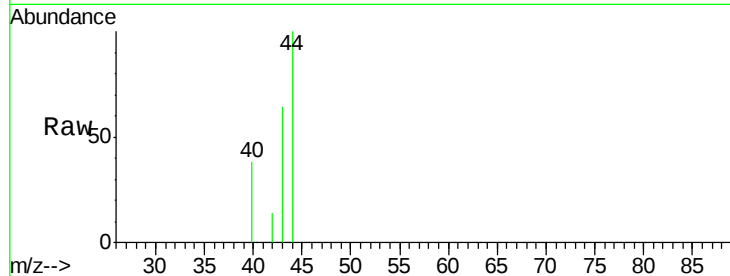




#18
Methyl Acetate
Concen: 0.271 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN058313.D
Acq: 23 Sep 2019 23:39

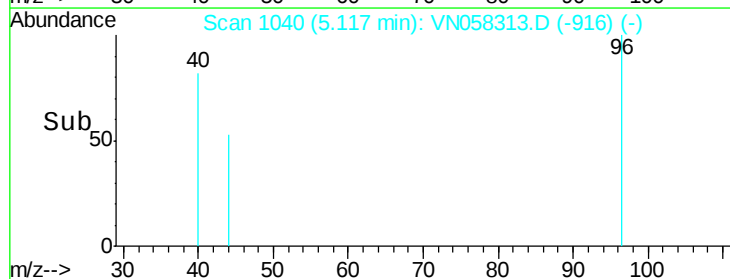
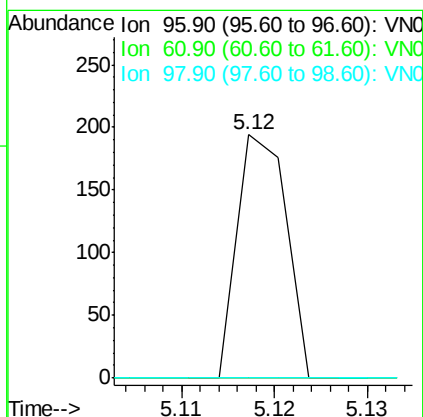
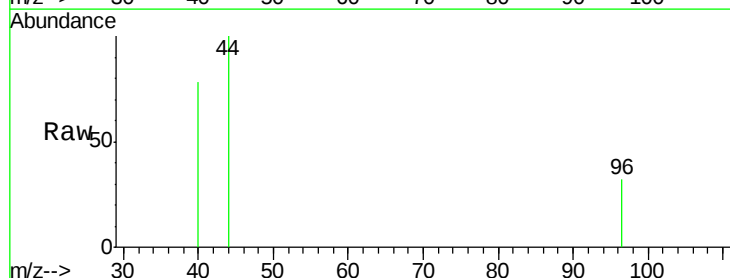
Instrument :
MSVOA_N
ClientSampled :
S49-0515

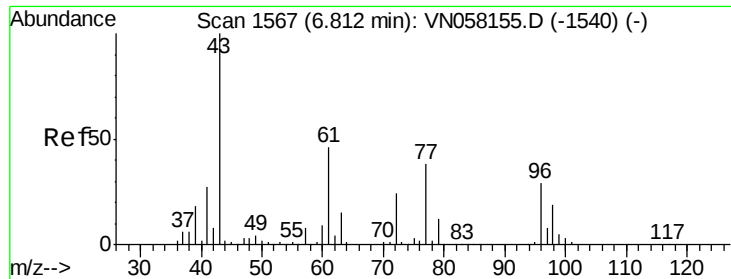
Tot Ion: 43 Resp: 1560
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.12 min Scan# 1040
Delta R.T. 0.10 min
Lab File: VN058313.D
Acq: 23 Sep 2019 23:39

Tgt Ion: 96 Resp: 71
Ion Ratio Lower Upper
96 100
61 0.0 122.2 183.4#
98 0.0 49.9 74.9#

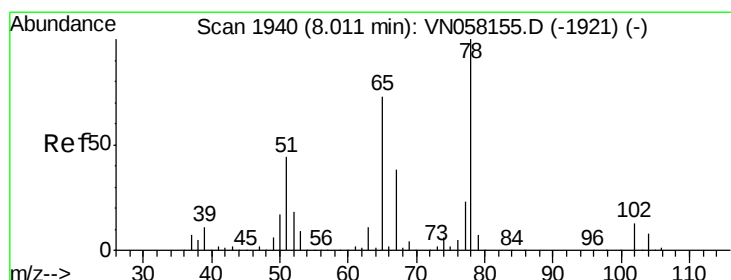
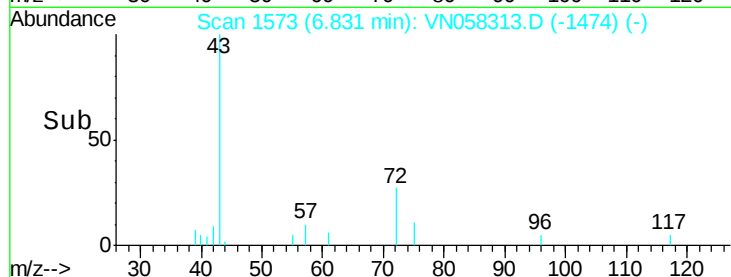
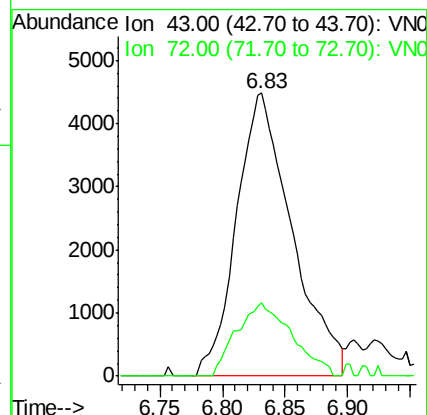
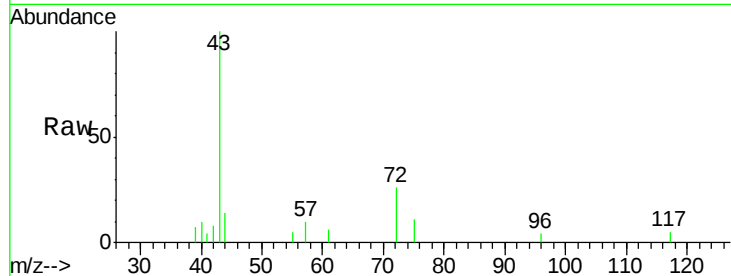




#25
2-Butanone
Concen: 4.626 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN058313.D
Acq: 23 Sep 2019 23:39

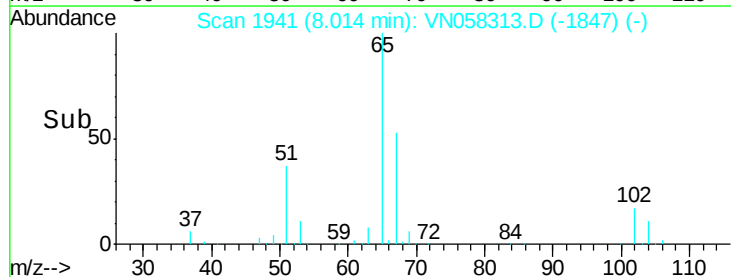
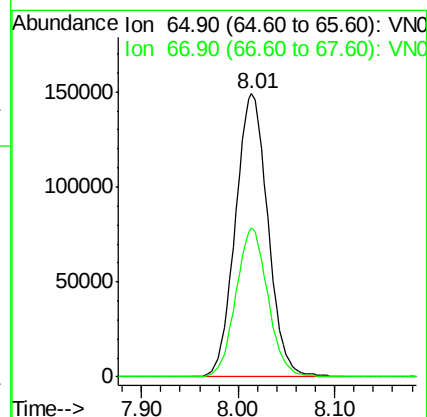
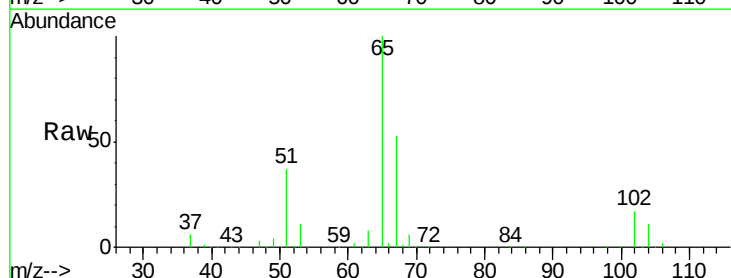
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MSVOA_N
ClientSampleId :
S49-0515

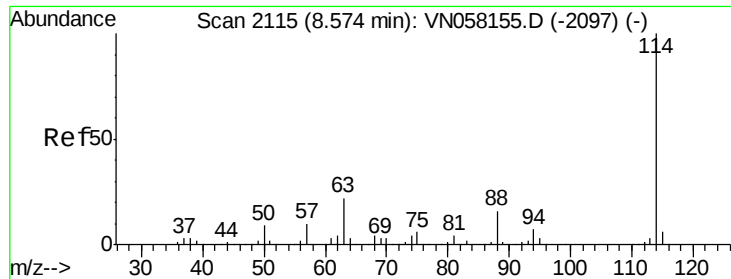
Tot Ion: 43 Resp: 13813
Ion Ratio Lower Upper
43 100
72 26.0 19.5 29.3



#33
1,2-Dichloroethane-d4
Concen: 53.873 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058313.D
Acq: 23 Sep 2019 23:39

Tgt Ion: 65 Resp: 347830
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.4

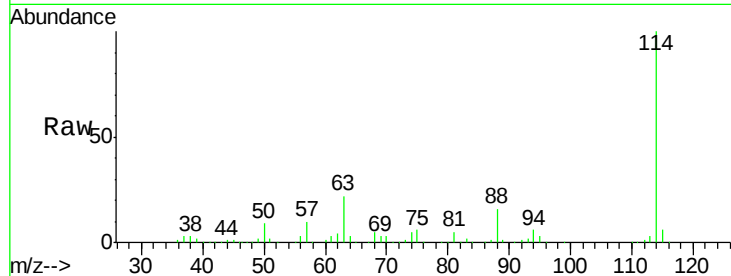




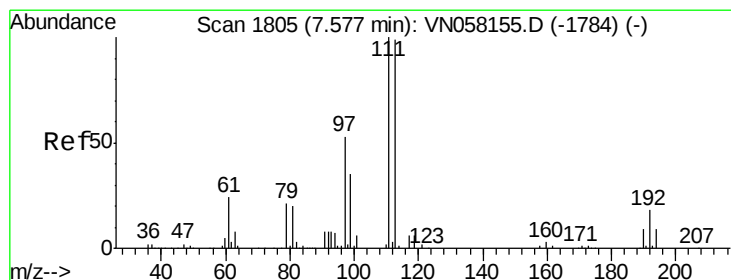
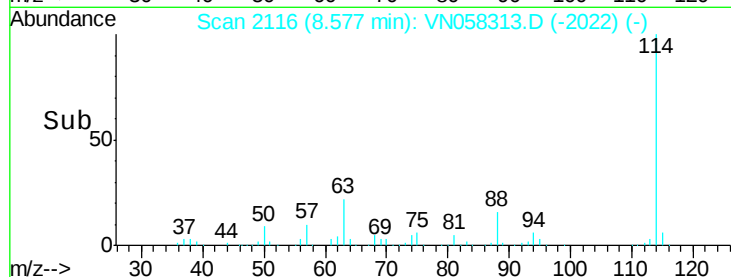
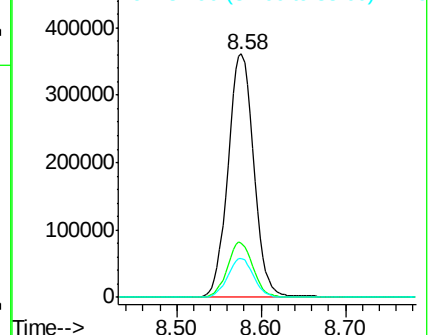
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058313.D
 Acq: 23 Sep 2019 23:39

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0515

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.2
88	16.2	0.0	31.6

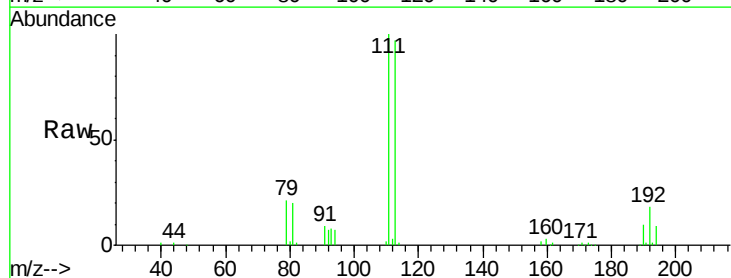


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

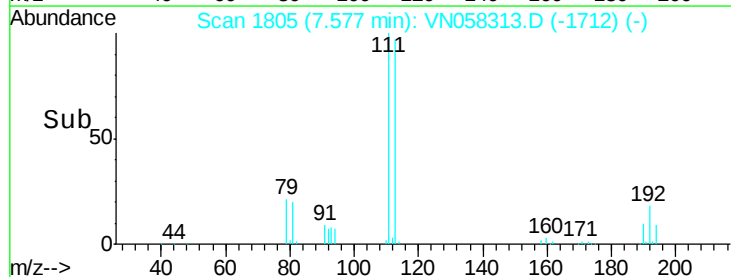
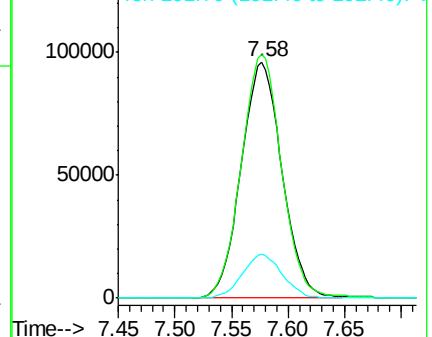


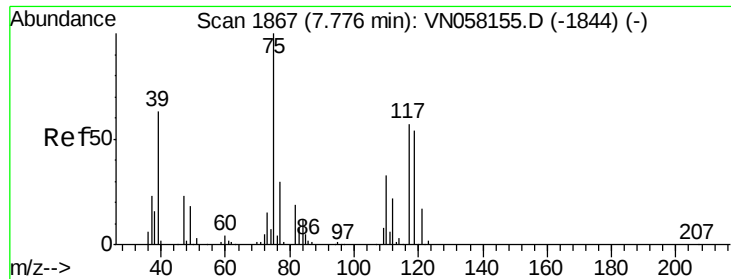
#35
 Dibromofluoromethane
 Concen: 51.649 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN058313.D
 Acq: 23 Sep 2019 23:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.6
192	18.2	14.5	21.7



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

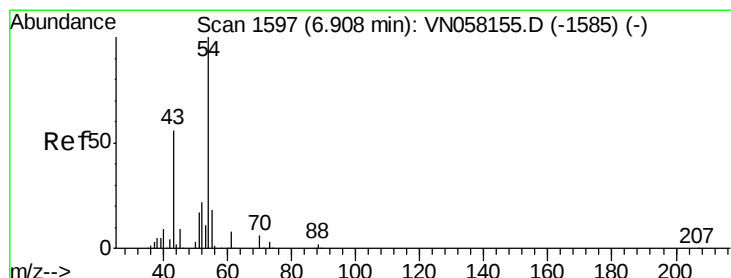
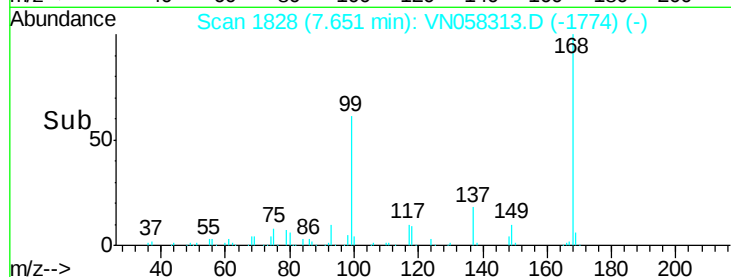
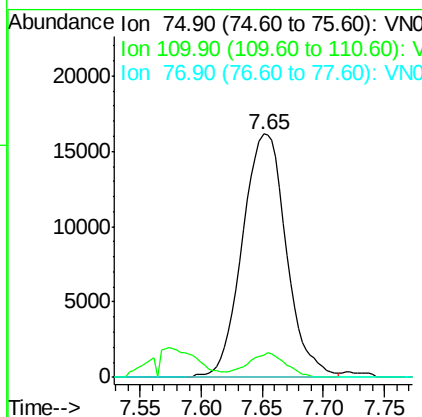
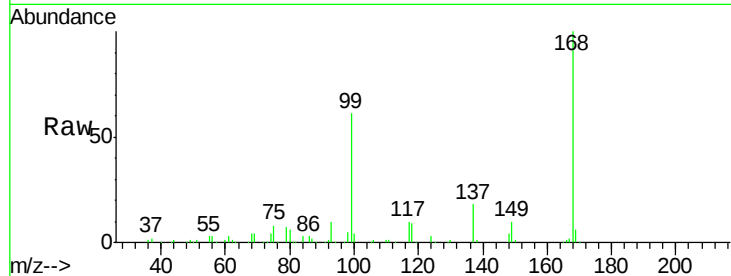




#36
 1,1-Dichloropropene
 Concen: 7.266 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058313.D
 Acq: 23 Sep 2019 23:39

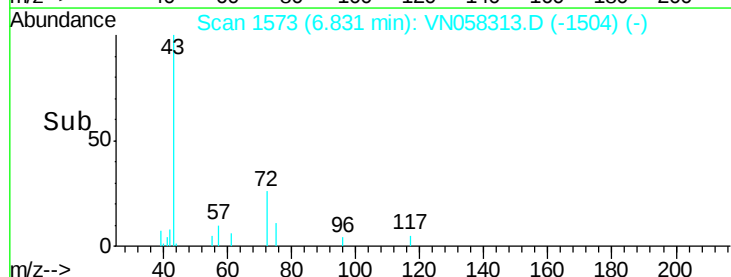
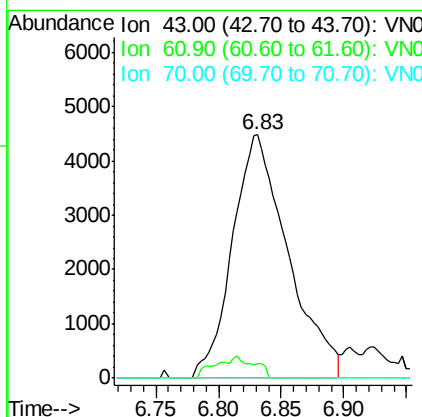
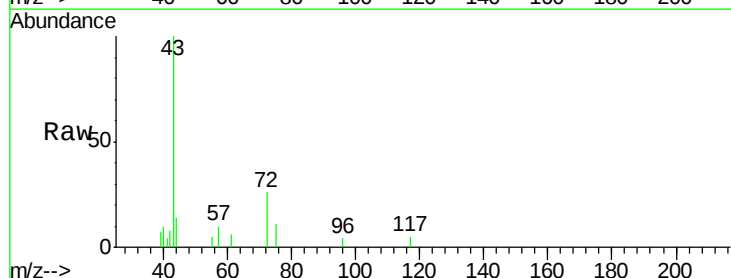
Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0515

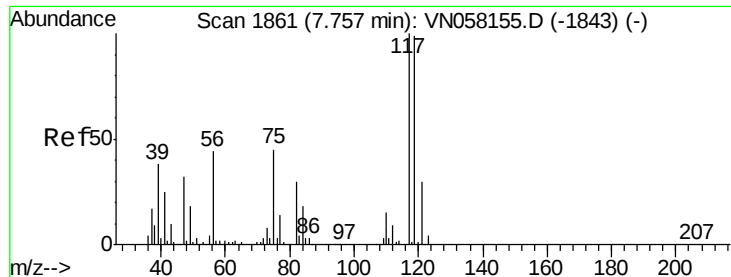
Tot Ion: 75 Resp: 40300
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.6 49.7#
 77 0.0 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 2.400 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.08 min
 Lab File: VN058313.D
 Acq: 23 Sep 2019 23:39

Tgt Ion: 43 Resp: 13813
 Ion Ratio Lower Upper
 43 100
 61 6.3 10.7 16.1#
 70 0.0 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 8.642 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Instrument :

MSVOA_N

ClientSampled :

S49-0515

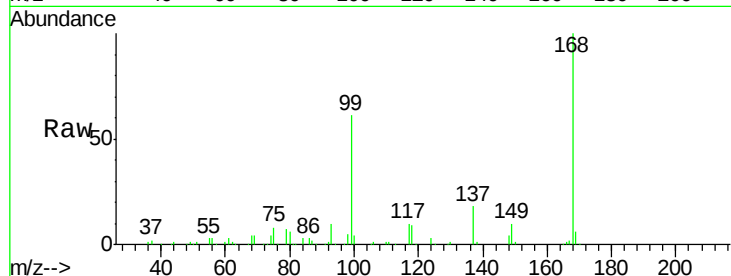
Tot Ion:117 Resp: 48181

Ion Ratio Lower Upper

117 100

119 4.4 78.6 117.8#

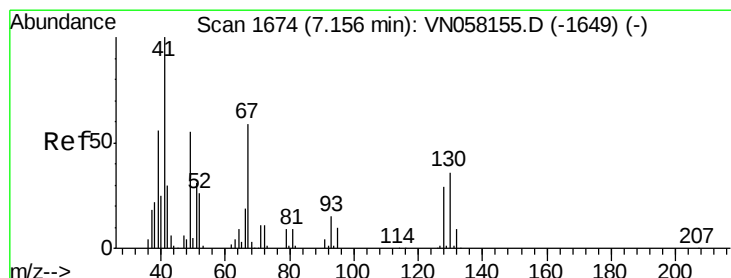
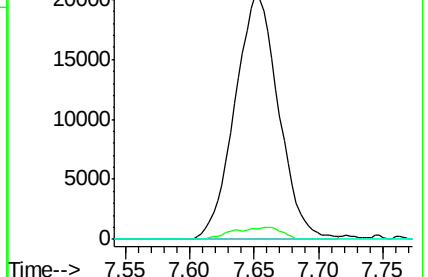
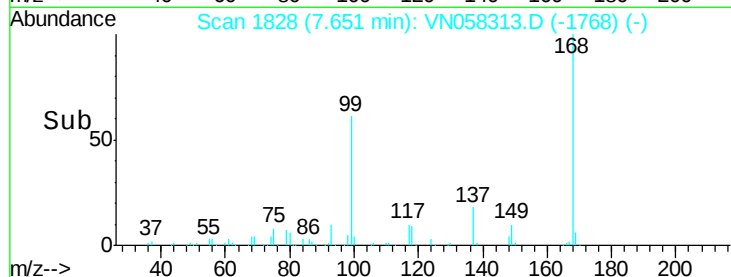
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.921 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.04 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Tgt Ion: 41 Resp: 30

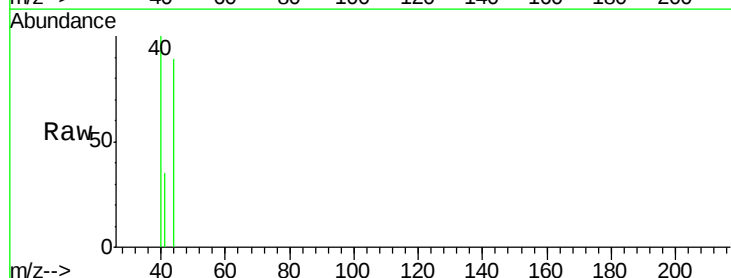
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

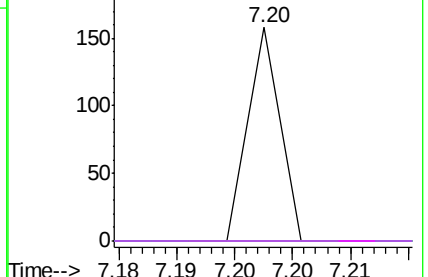
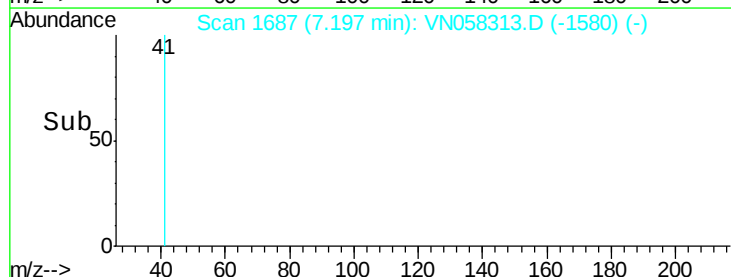


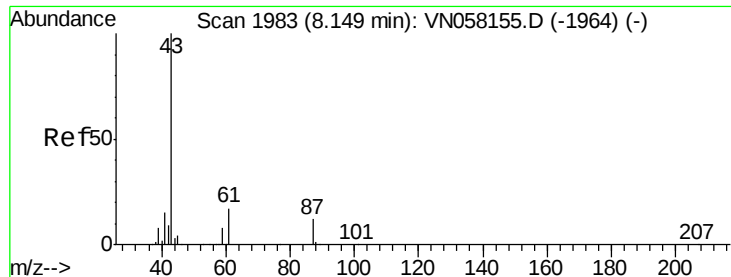
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.401 ug/l

RT: 8.27 min Scan# 2021

Delta R.T. 0.12 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Instrument :

MSVOA_N

ClientSampleId :

S49-0515

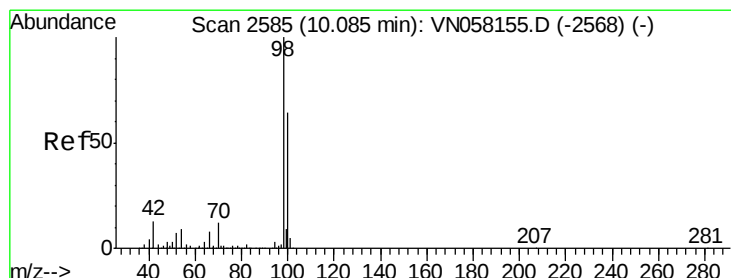
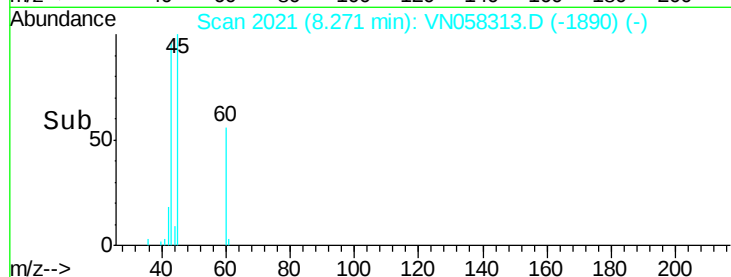
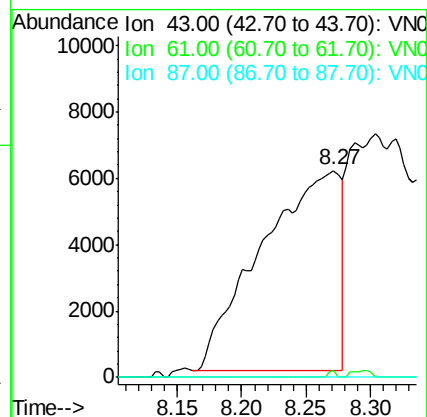
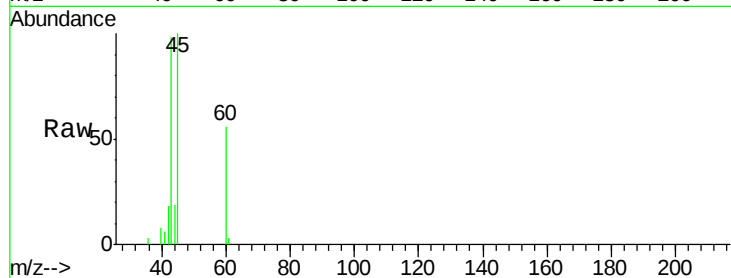
Tot Ion: 43 Resp: 25811

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#50

Toluene-d8

Concen: 53.192 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058313.D

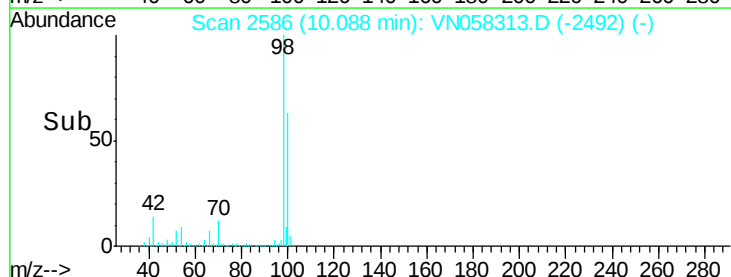
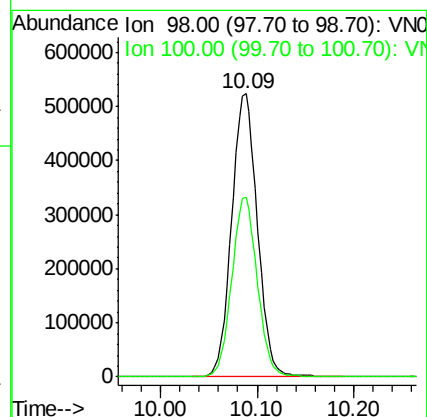
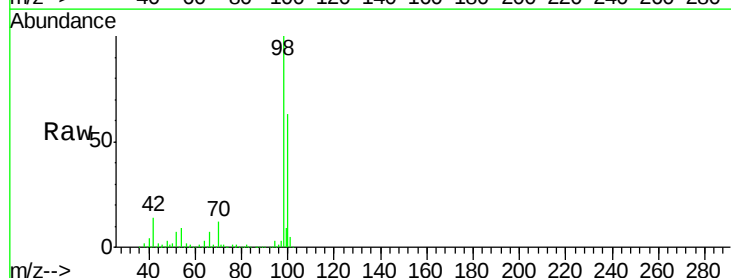
Acq: 23 Sep 2019 23:39

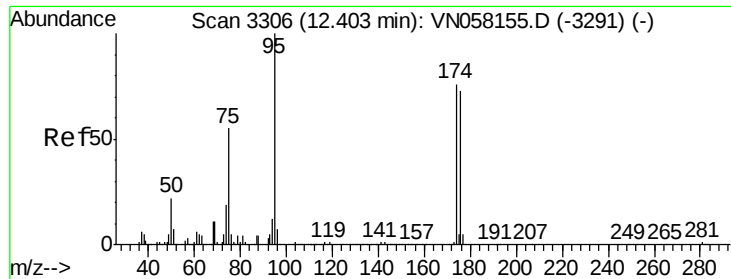
Tgt Ion: 98 Resp: 969008

Ion Ratio Lower Upper

98 100

100 62.8 51.1 76.7

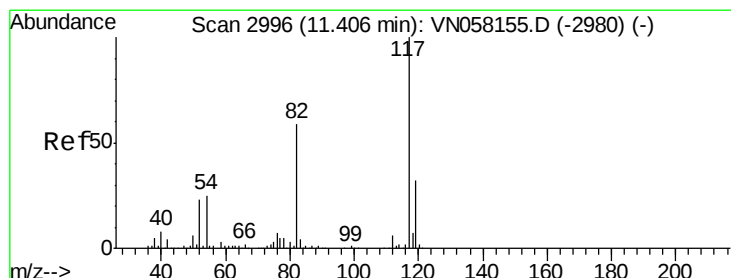
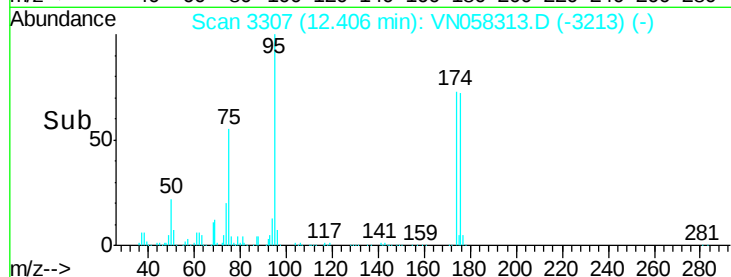
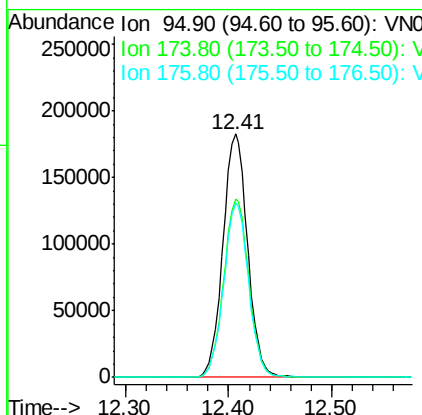
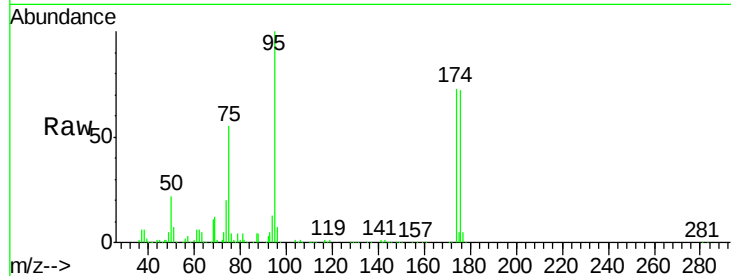




#62
4-Bromofluorobenzene
Concen: 44.928 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058313.D
Acq: 23 Sep 2019 23:39

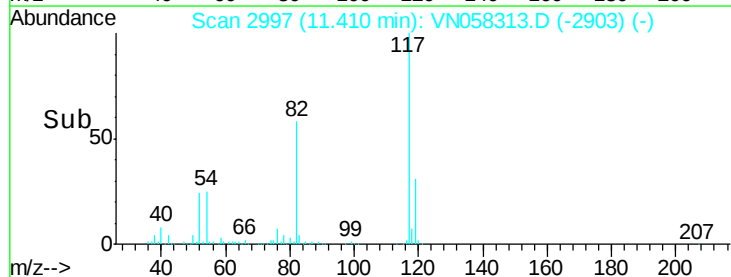
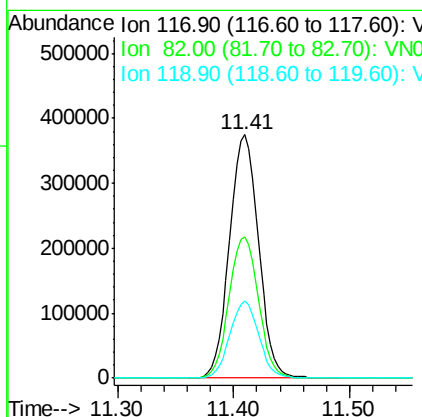
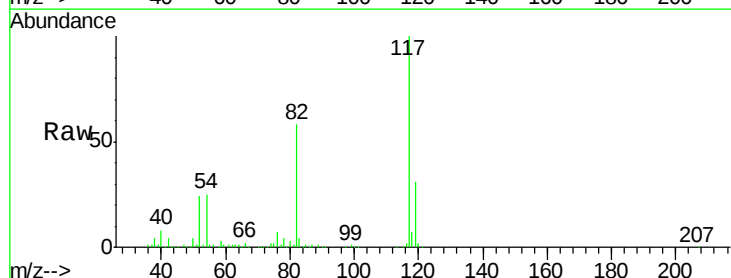
Instrument :
MSVOA_N
ClientSampled :
S49-0515

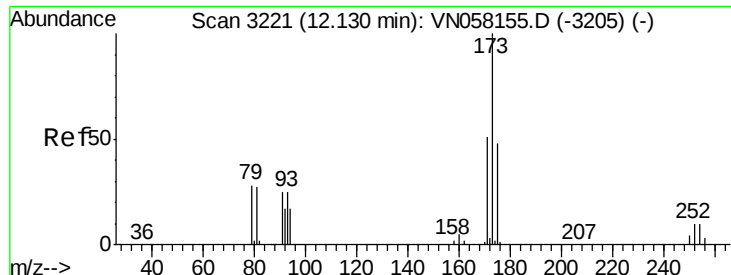
Tot Ion: 95 Resp: 304026
Ion Ratio Lower Upper
95 100
174 75.1 0.0 152.2
176 71.9 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058313.D
Acq: 23 Sep 2019 23:39

Tgt Ion: 117 Resp: 652040
Ion Ratio Lower Upper
117 100
82 57.9 46.9 70.3
119 31.5 25.3 37.9





#71

Bromoform

Concen: 3.643 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Instrument :

MSVOA_N

ClientSampleId :

S49-0515

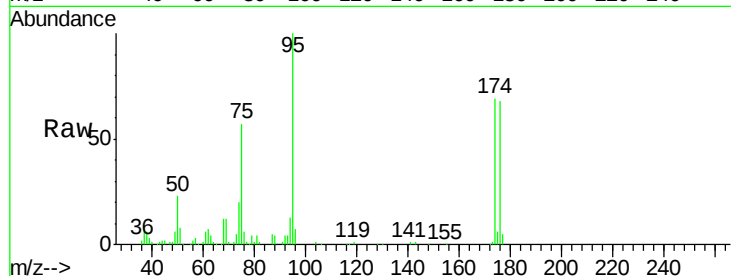
Tot Ion:173 Resp: 159

Ion Ratio Lower Upper

173 100

175 8793.1 24.2 72.6#

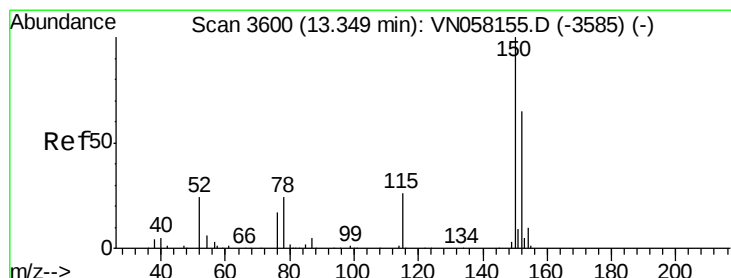
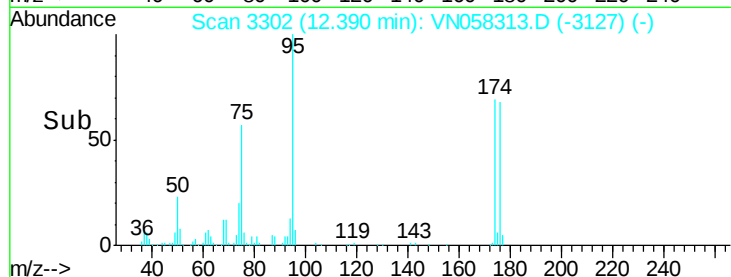
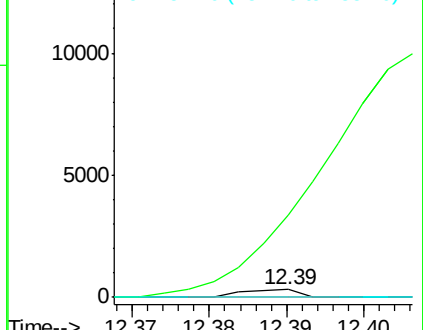
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

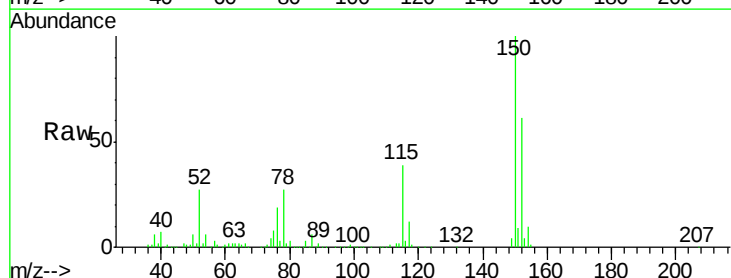
Tgt Ion:152 Resp: 256625

Ion Ratio Lower Upper

152 100

115 62.1 30.1 90.3

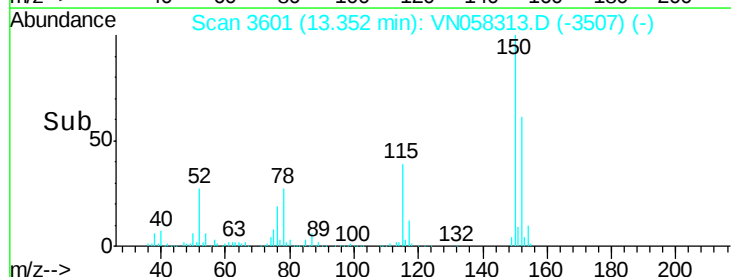
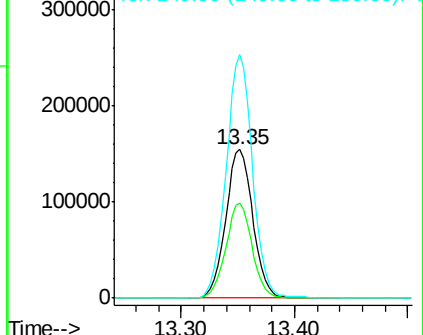
150 159.5 0.0 346.4

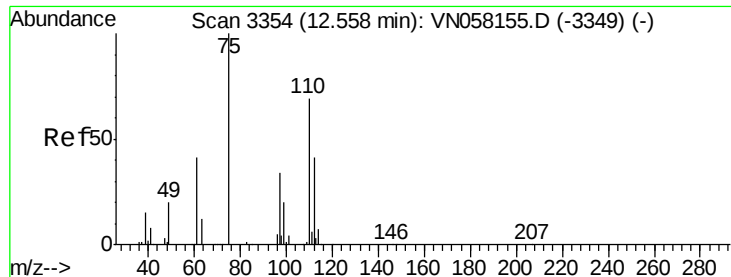


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.490 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

Instrument :

MSVOA_N

ClientSampled :

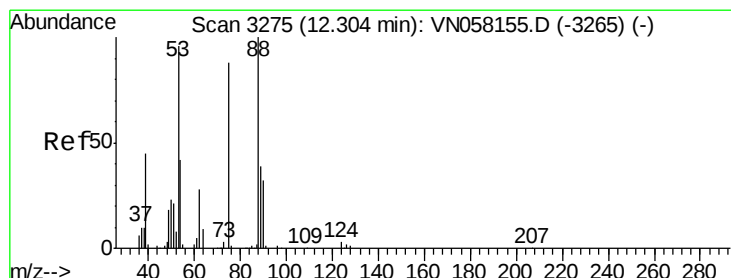
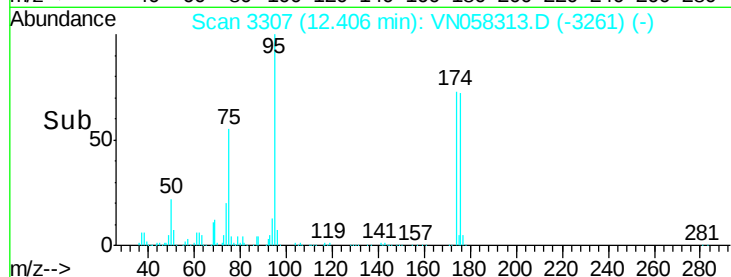
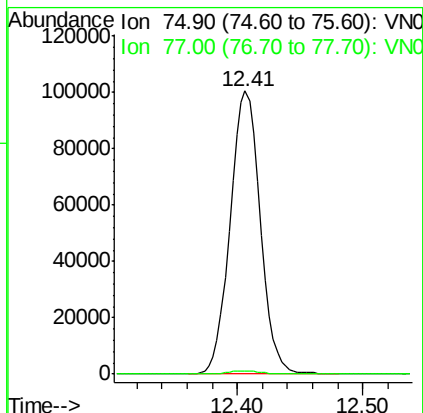
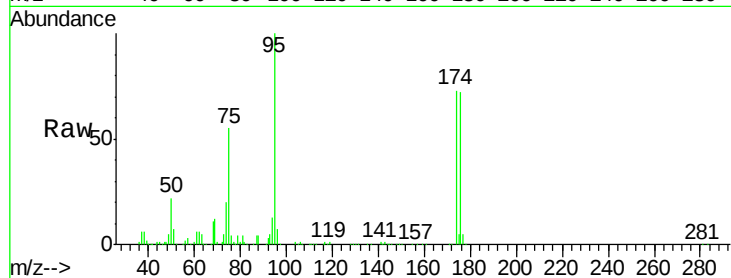
S49-0515

Tot Ion: 75 Resp: 167590

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 101.829 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058313.D

Acq: 23 Sep 2019 23:39

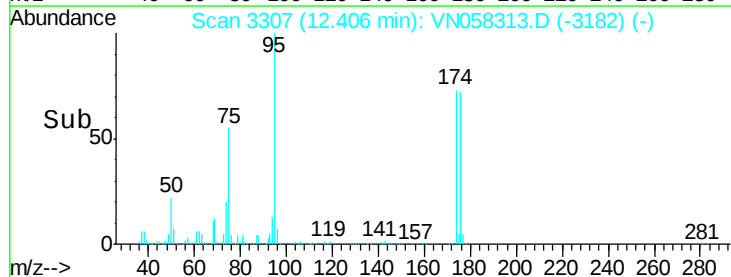
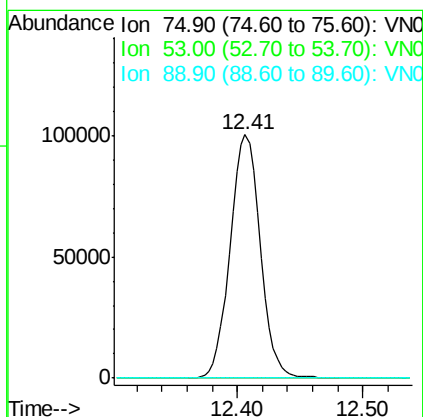
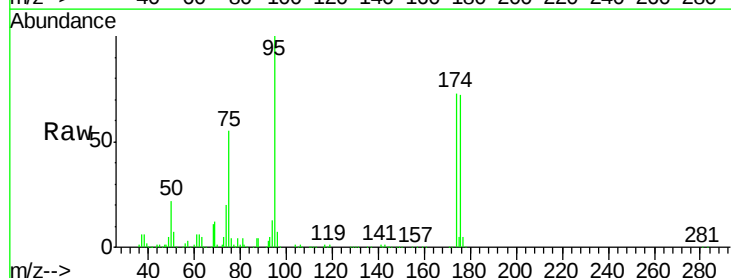
Tgt Ion: 75 Resp: 167590

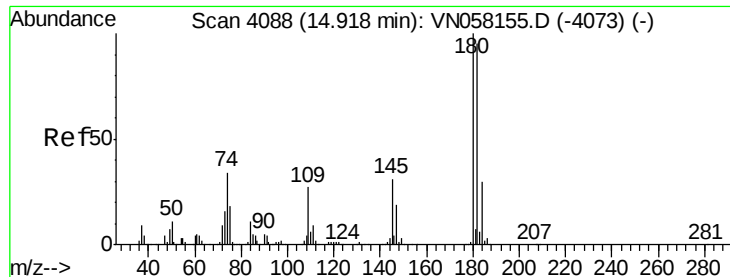
Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

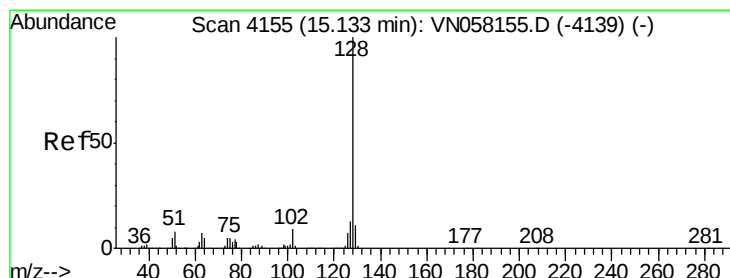
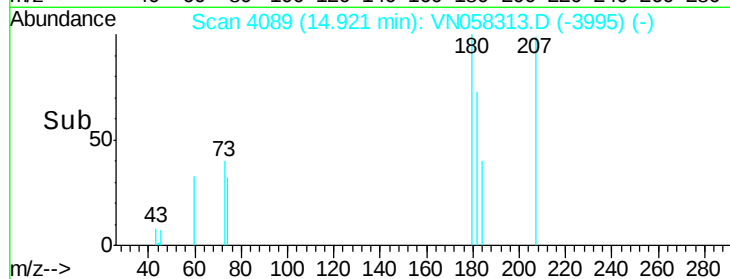
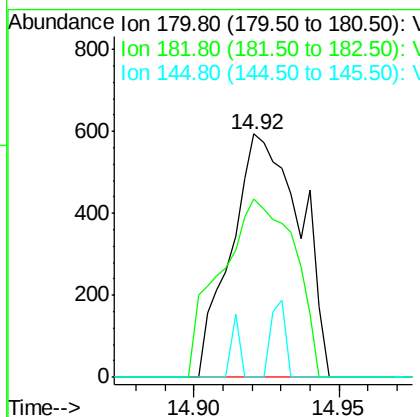
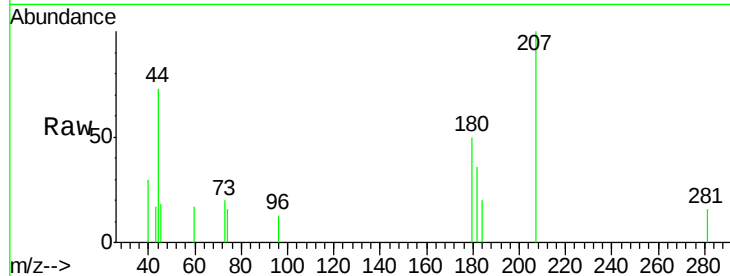




#93
 1,2,4-Trichlorobenzene
 Concen: 0.207 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058313.D
 Acq: 23 Sep 2019 23:39

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0515

Tot Ion:180 Resp: 979
 Ion Ratio Lower Upper
 180 100
 182 79.3 47.8 143.3
 145 3.1 15.4 46.4#



#95
 Naphthalene
 Concen: 0.387 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN058313.D
 Acq: 23 Sep 2019 23:39

Tgt Ion:128 Resp: 4743
 Ion Ratio Lower Upper
 128 100
 127 9.0 10.2 15.2#
 129 2.2 8.6 12.8#

