

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053002.D
 Acq On : 19 Dec 2018 11:16
 Operator : MD\SY
 Sample : VN1219WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Quant Time: Dec 20 05:17:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1058249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1617345	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1421894	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	662060	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	552055	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
35) Dibromofluoromethane	7.59	113	423350	57.30	ug/l	0.00
Spiked Amount			Recovery	=	114.60%	
50) Toluene-d8	10.09	98	2024058	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.40	95	688659	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	211252	19.724	ug/l	99
3) Chloromethane	2.06	50	262308	20.211	ug/l	99
4) Vinyl Chloride	2.19	62	261926	19.927	ug/l	99
5) Bromomethane	2.58	94	164648	18.080	ug/l	99
6) Chloroethane	2.71	64	154946	19.904	ug/l	99
7) Trichlorofluoromethane	3.03	101	325951	19.906	ug/l	99
8) Diethyl Ether	3.41	74	125025	20.239	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	204297	19.568	ug/l	97
10) Methyl Iodide	3.96	142	244669	16.688	ug/l	98
11) Tert butyl alcohol	4.77	59	61852	94.392	ug/l #	89
12) 1,1-Dichloroethene	3.74	96	198268	19.657	ug/l	99
13) Acrolein	3.61	56	68978	116.094	ug/l	99
14) Allyl chloride	4.33	41	323633	20.714	ug/l	94
15) Acrylonitrile	4.99	53	351982	96.690	ug/l	99
16) Acetone	3.81	43	227025	107.818	ug/l	98
17) Carbon Disulfide	4.06	76	583204	17.730	ug/l	99
18) Methyl Acetate	4.32	43	179521	19.404	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	545037	20.192	ug/l	100
20) Methylene Chloride	4.55	84	228467	19.891	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	210948	19.465	ug/l	99
22) Diisopropyl ether	5.95	45	678687	20.351	ug/l	97
23) Vinyl Acetate	5.90	43	1974819	102.980	ug/l	98
24) 1,1-Dichloroethane	5.85	63	394737	19.919	ug/l	99
25) 2-Butanone	6.83	43	373835	105.790	ug/l	97
26) 2,2-Dichloropropane	6.82	77	289037	19.107	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	244600	19.937	ug/l	99
28) Bromochloromethane	7.19	49	184835	21.525	ug/l	96
29) Tetrahydrofuran	7.21	42	265471	100.586	ug/l	98
30) Chloroform	7.37	83	386977	19.879	ug/l	99
31) Cyclohexane	7.66	56	379601	19.789	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	323955	19.535	ug/l	99
36) 1,1-Dichloropropene	7.80	75	301652	19.432	ug/l	99
37) Ethyl Acetate	6.93	43	177009	20.425	ug/l	100
38) Carbon Tetrachloride	7.78	117	276801	19.453	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	359468	19.062	ug/l	99
40) Benzene	8.04	78	920468	19.934	ug/l	100
41) Methacrylonitrile	7.17	41	97339	19.440	ug/l	98
42) 1,2-Dichloroethane	8.12	62	268534	19.686	ug/l	99
43) Isopropyl Acetate	8.16	43	341219	19.714	ug/l	99
44) Trichloroethene	8.83	130	258670	19.368	ug/l	98
45) 1,2-Dichloropropane	9.12	63	241212	20.055	ug/l	100
46) Dibromomethane	9.21	93	138239	19.730	ug/l	97
47) Bromodichloromethane	9.40	83	290148	19.482	ug/l	100
48) Methyl methacrylate	9.20	41	165621	19.695	ug/l	98
49) 1,4-Dioxane	9.20	88	38920	365.878	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	852112	101.533	ug/l	99
52) Toluene	10.16	92	567735	19.837	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	297128	18.973	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	350747	19.512	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	199495	19.980	ug/l	98
56) Ethyl methacrylate	10.43	69	263300	19.923	ug/l	97
57) 1,3-Dichloropropane	10.71	76	343184	20.043	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	703746	96.995	ug/l	98
59) 2-Hexanone	10.75	43	573101	100.931	ug/l	99
60) Dibromochloromethane	10.90	129	220040	19.252	ug/l	100
61) 1,2-Dibromoethane	11.00	107	199868	19.710	ug/l	100
64) Tetrachloroethene	10.63	164	294274	19.106	ug/l	99
65) Chlorobenzene	11.43	112	618221	19.614	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	216138	19.719	ug/l	99
67) Ethyl Benzene	11.51	91	1071363	19.765	ug/l	99
68) m/p-Xylenes	11.62	106	813091	39.458	ug/l	99
69) o-Xylene	11.95	106	397363	20.096	ug/l	100
70) Styrene	11.96	104	648957	20.127	ug/l	99
71) Bromoform	12.13	173	148820	18.795	ug/l #	99
73) Isopropylbenzene	12.25	105	1048000	20.231	ug/l	100
74) N-amyl acetate	12.07	43	297471	20.684	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	214178	21.075	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	294872	26.458	ug/l #	100
77) Bromobenzene	12.53	156	269660	20.027	ug/l	97
78) n-propylbenzene	12.59	91	1173085	19.884	ug/l	99
79) 2-Chlorotoluene	12.67	91	703139	19.228	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	837003	19.824	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	67467	19.511	ug/l	97
82) 4-Chlorotoluene	12.77	91	708213	19.784	ug/l	100
83) tert-Butylbenzene	12.99	119	738020	19.764	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	848645	19.994	ug/l	100
85) sec-Butylbenzene	13.17	105	982082	19.444	ug/l	99
86) p-Isopropyltoluene	13.29	119	848500	19.442	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	463228	19.437	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	457877	18.972	ug/l	99
89) n-Butylbenzene	13.62	91	685109	18.247	ug/l	99
90) Hexachloroethane	13.88	117	123656	18.463	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	440545	19.642	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	33299	18.951	ug/l	99

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QLast Update : Tue Dec 18 13:03:37 2018
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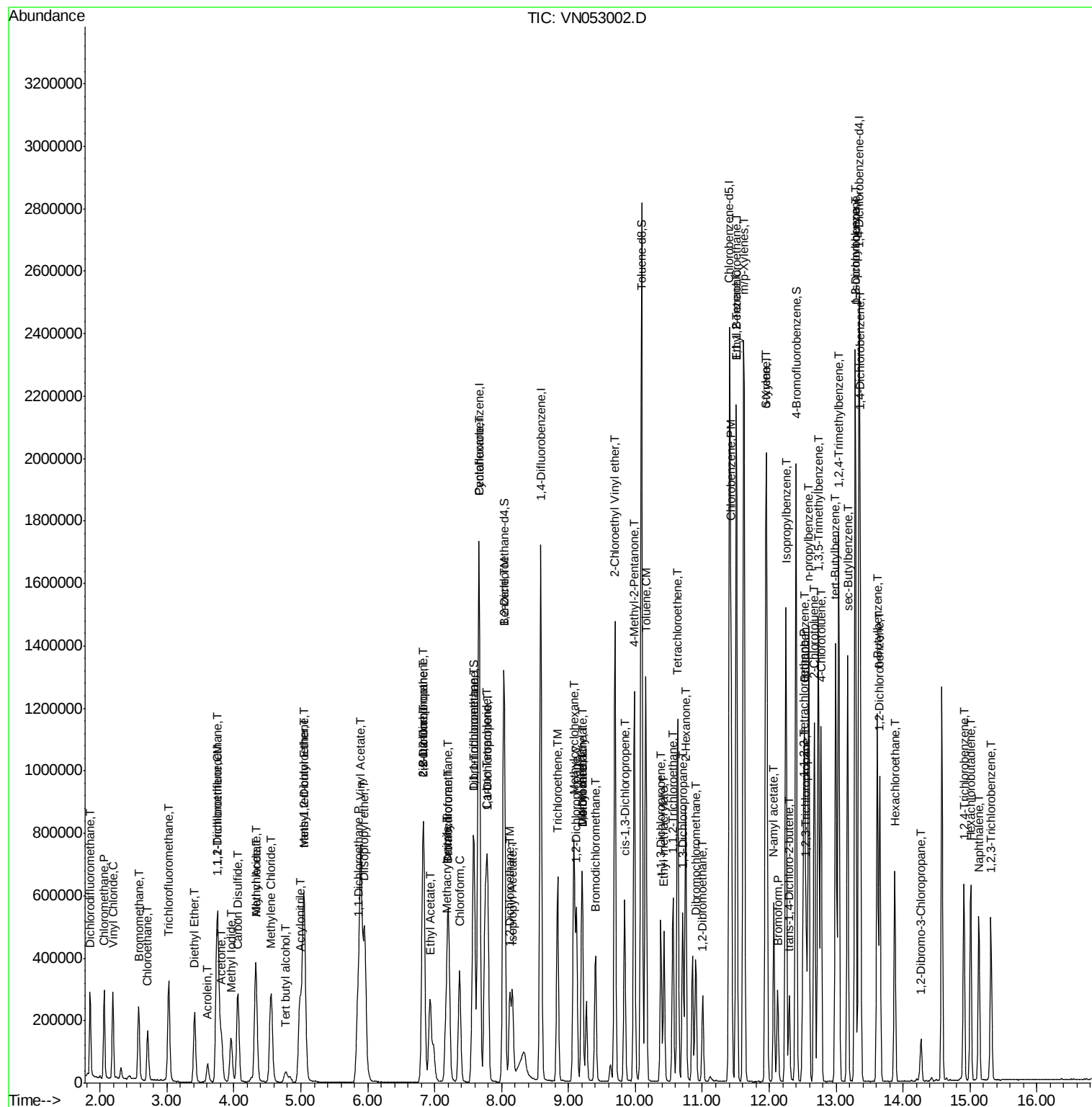
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	220884	18.963	ug/l	100
94) Hexachlorobutadiene	15.01	225	130017	19.373	ug/l	99
95) Naphthalene	15.13	128	464432	18.579	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	200003	19.009	ug/l	98

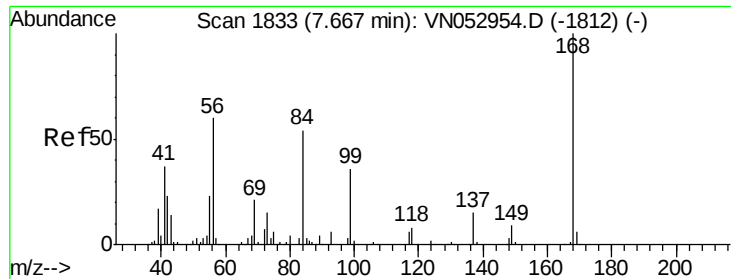
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

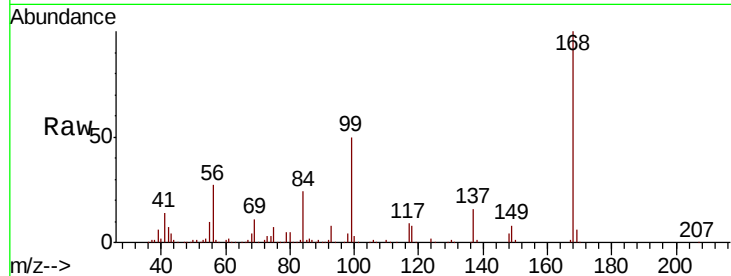
VN1219WBS01

Tot Ion:168 Resp: 1058249

Ion Ratio Lower Upper

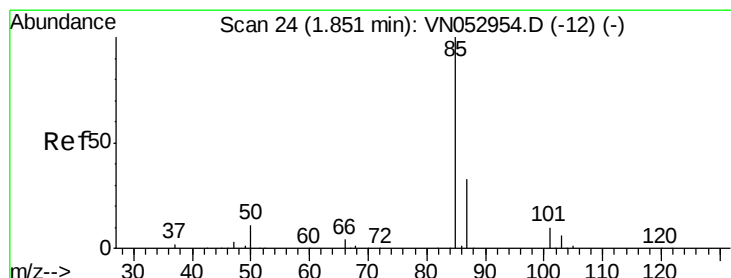
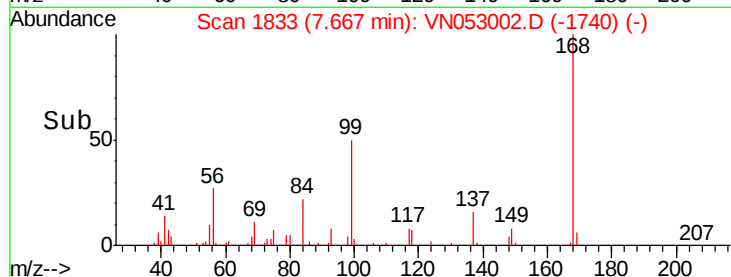
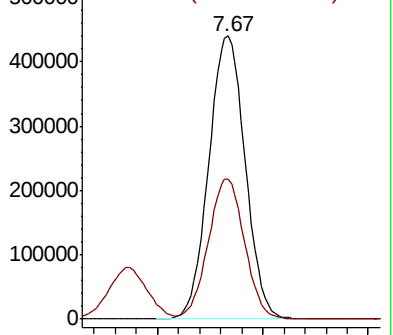
168 100

99 49.5 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 19.724 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053002.D

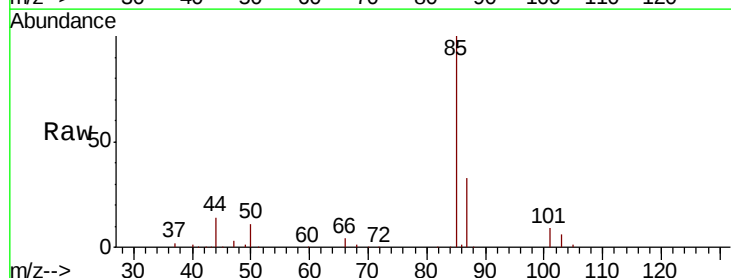
Acq: 19 Dec 2018 11:16

Tgt Ion: 85 Resp: 211252

Ion Ratio Lower Upper

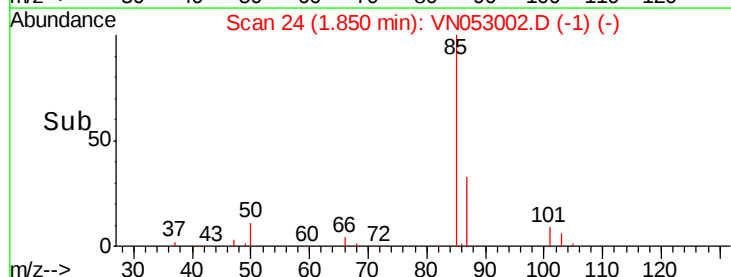
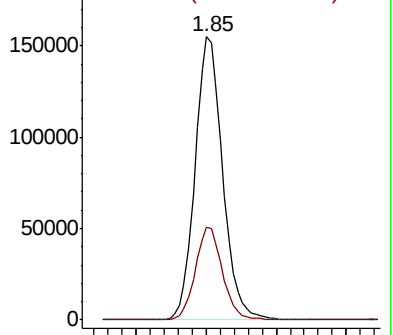
85 100

87 33.0 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 20.211 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

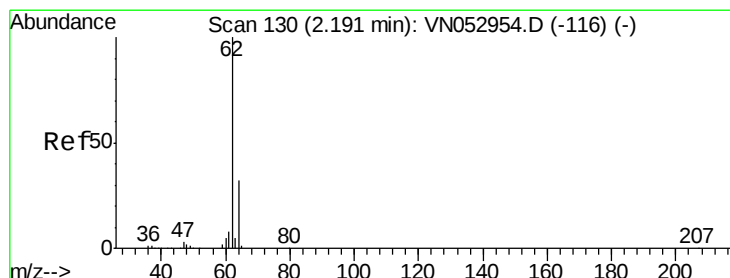
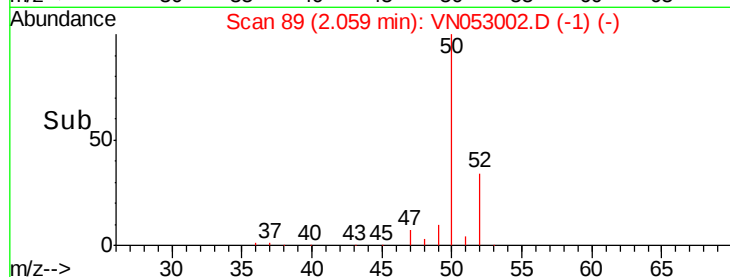
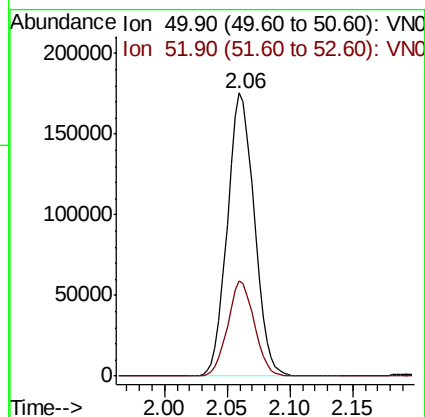
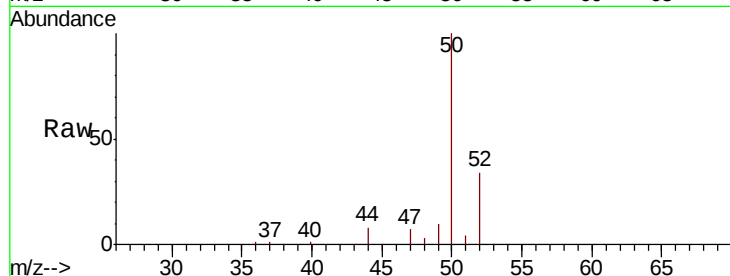
VN1219WBS01

Tot Ion: 50 Resp: 262308

Ion Ratio Lower Upper

50 100

52 33.5 26.2 39.4



#4

Vinyl Chloride

Concen: 19.927 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053002.D

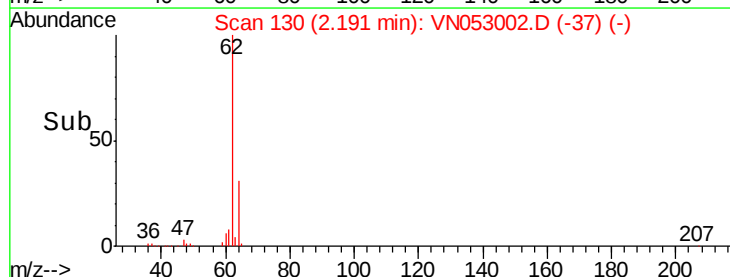
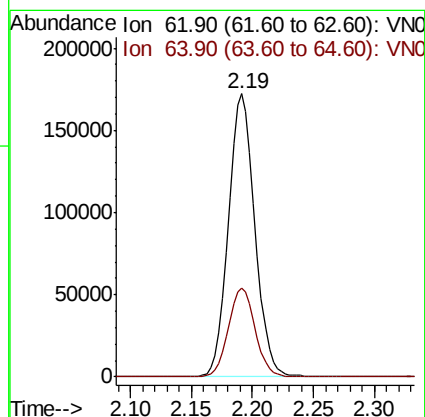
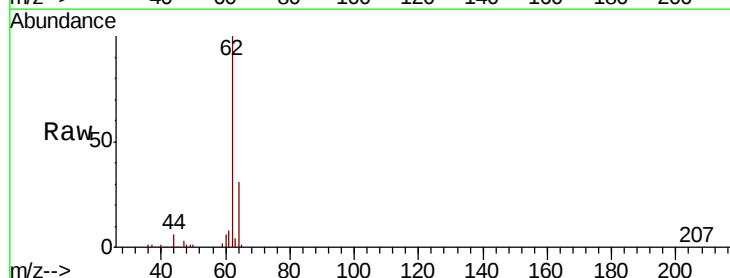
Acq: 19 Dec 2018 11:16

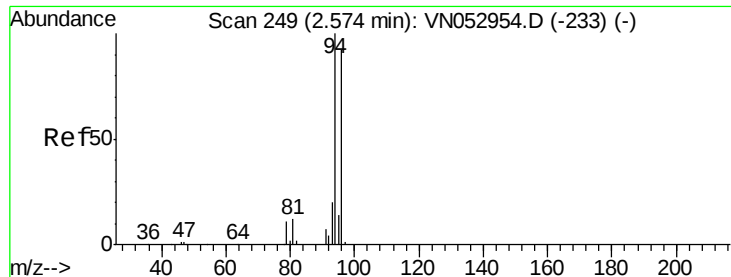
Tgt Ion: 62 Resp: 261926

Ion Ratio Lower Upper

62 100

64 31.5 25.5 38.3

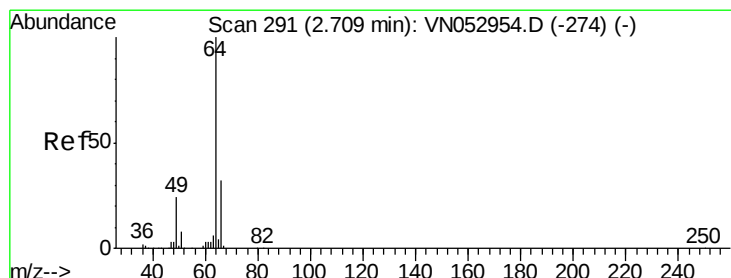
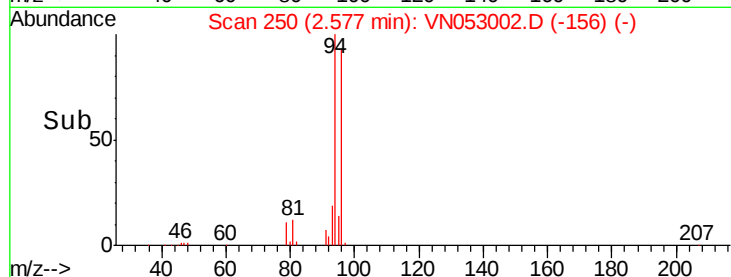
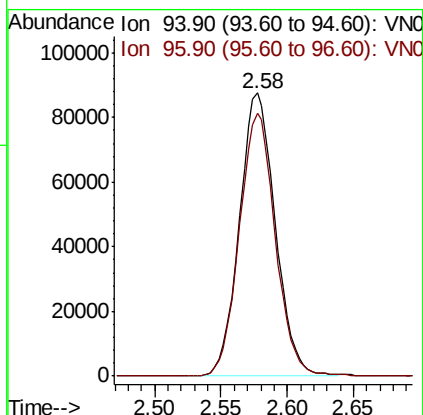
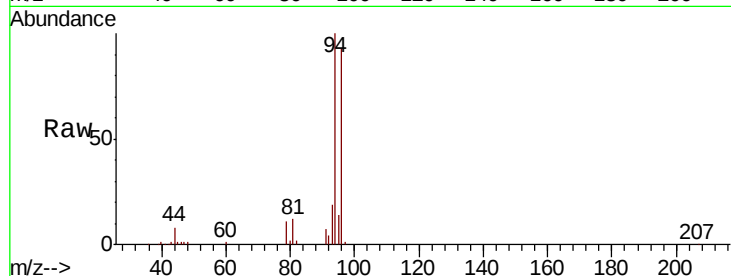




#5
Bromomethane
Concen: 18.080 ug/l
RT: 2.58 min Scan# 250
Delta R.T. 0.00 min
Lab File: VN053002.D
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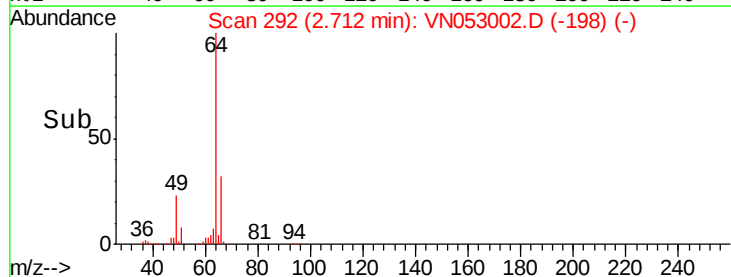
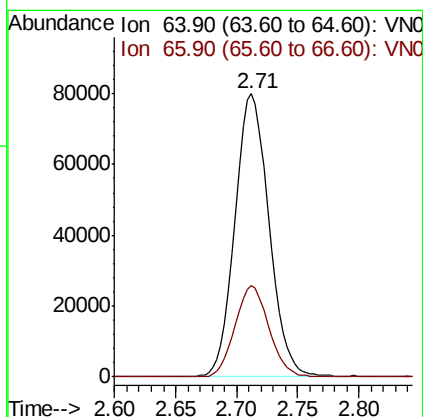
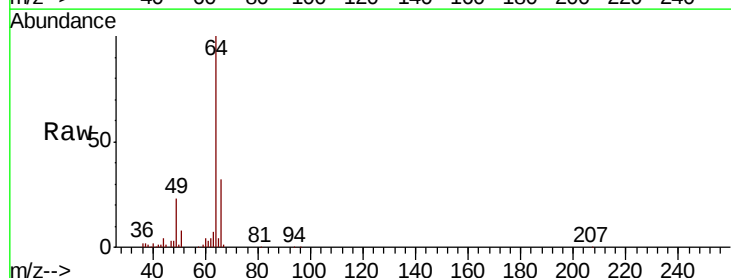
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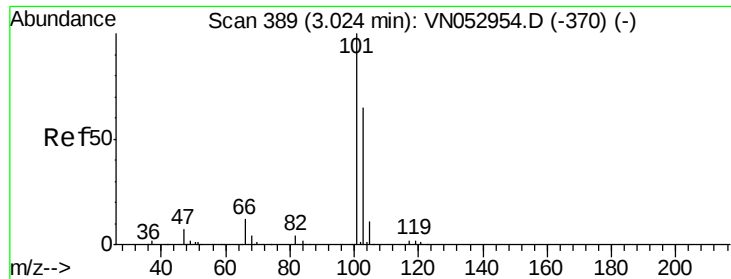
Tot Ion: 94 Resp: 164648
Ion Ratio Lower Upper
94 100
96 92.7 75.0 112.4



#6
Chloroethane
Concen: 19.904 ug/l
RT: 2.71 min Scan# 292
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 64 Resp: 154946
Ion Ratio Lower Upper
64 100
66 32.3 26.2 39.2



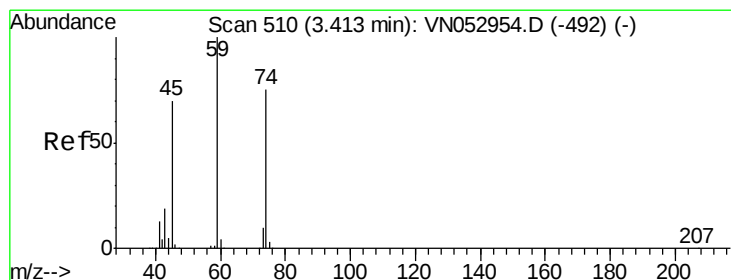
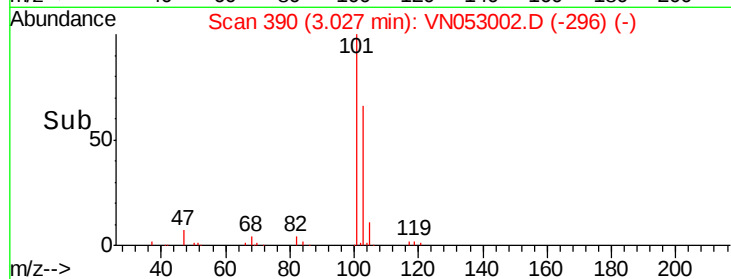
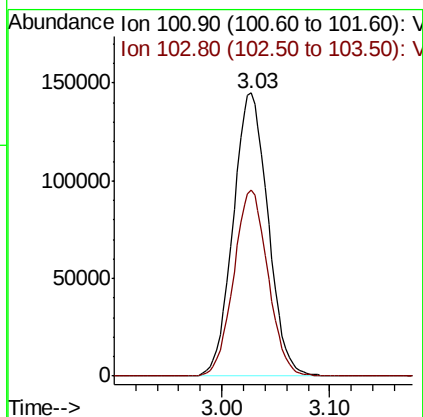
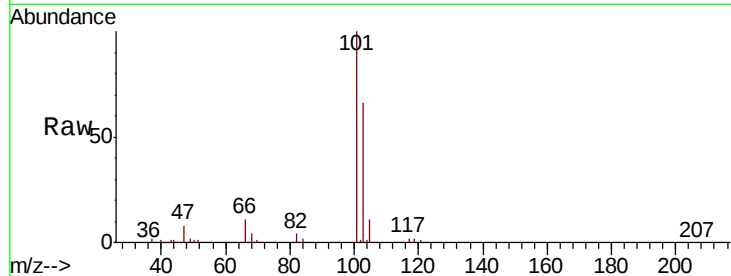


#7

Trichlorofluoromethane
 Concen: 19.906 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
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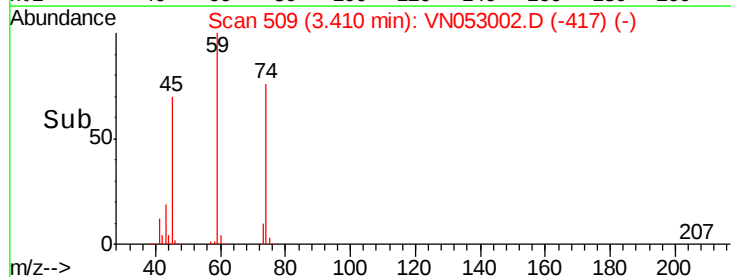
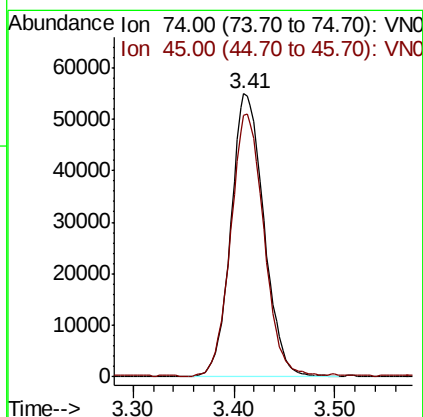
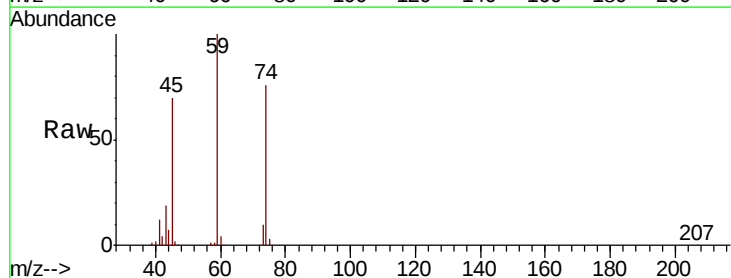
Tot Ion:101 Resp: 325951
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.8 77.6

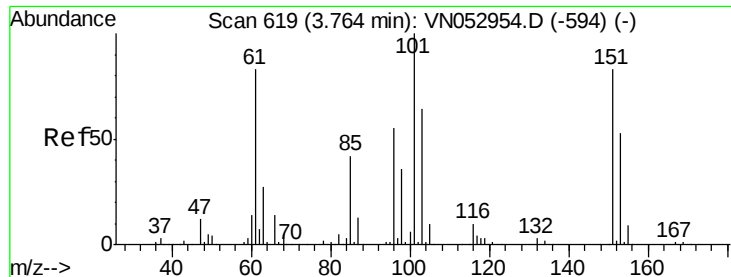


#8

Diethyl Ether
 Concen: 20.239 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion: 74 Resp: 125025
 Ion Ratio Lower Upper
 74 100
 45 92.5 49.4 148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.568 ug/l

RT: 3.77 min Scan# 621

Delta R.T. 0.01 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

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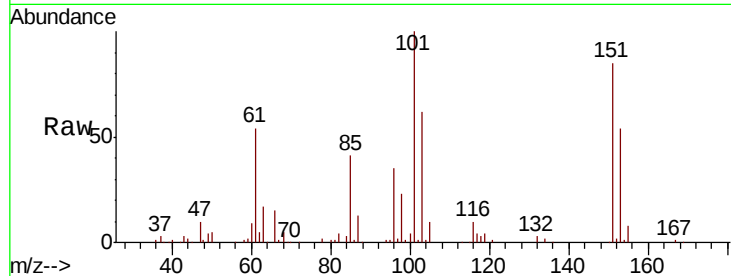
Tot Ion:101 Resp: 204297

Ion Ratio Lower Upper

101 100

85 41.7 33.6 50.4

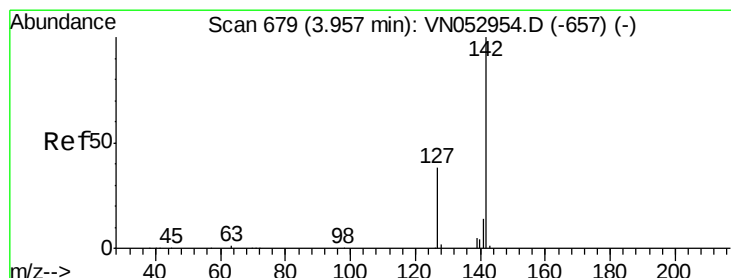
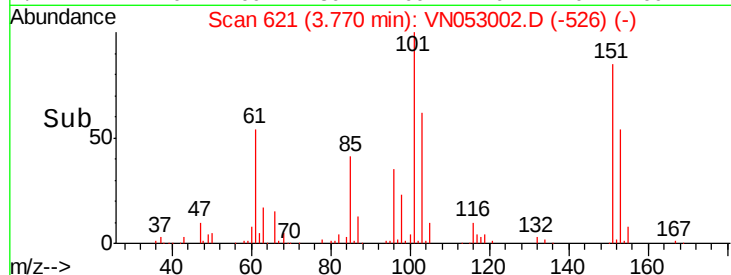
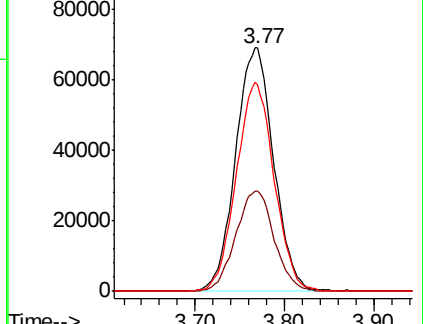
151 85.6 65.5 98.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 16.688 ug/l

RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

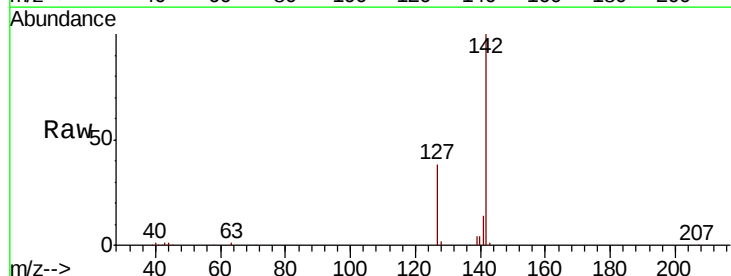
Tgt Ion:142 Resp: 244669

Ion Ratio Lower Upper

142 100

127 37.5 31.0 46.6

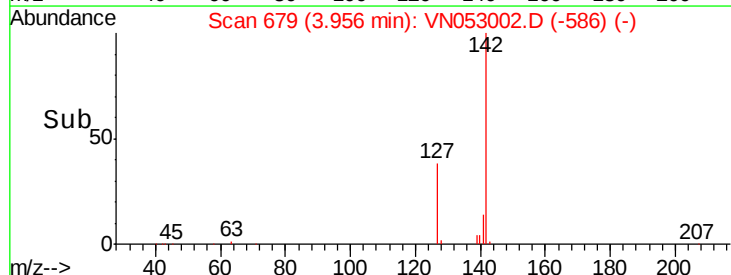
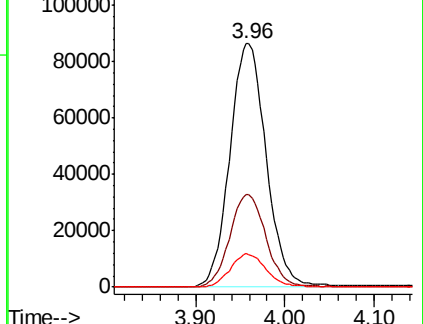
141 13.4 11.2 16.8

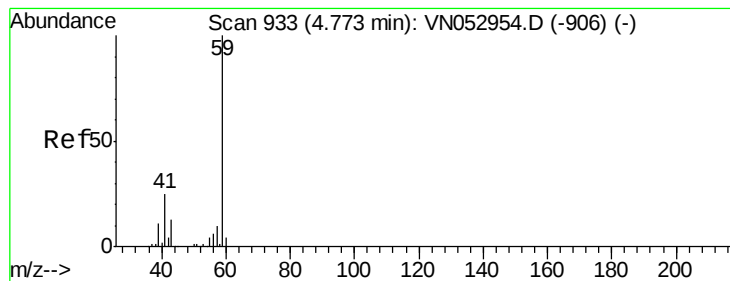


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



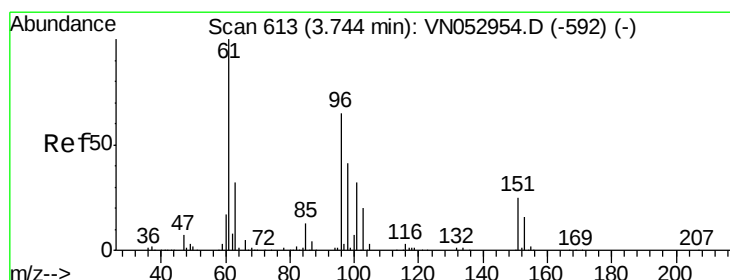
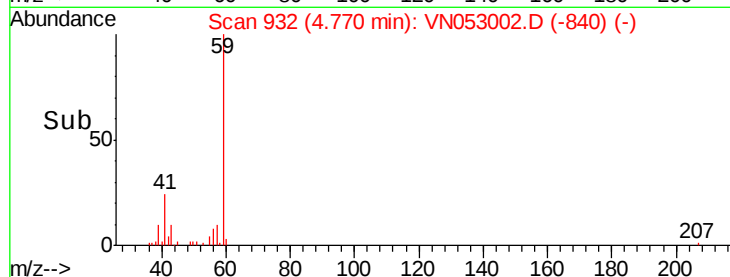
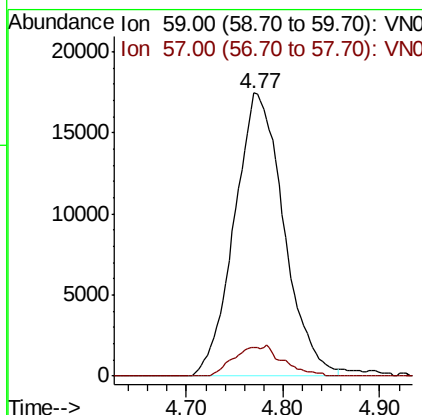
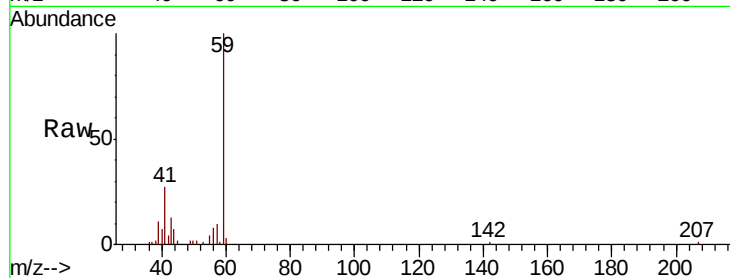


#11

Tert butyl alcohol
 Concen: 94.392 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

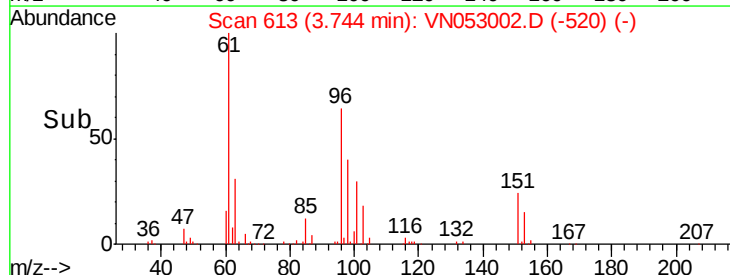
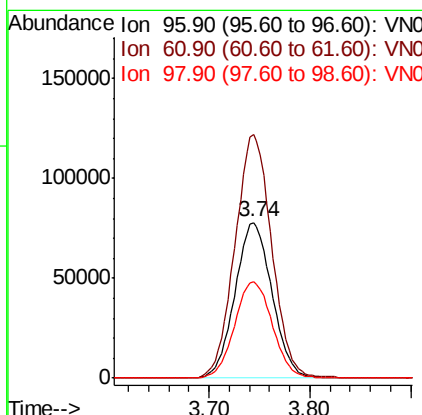
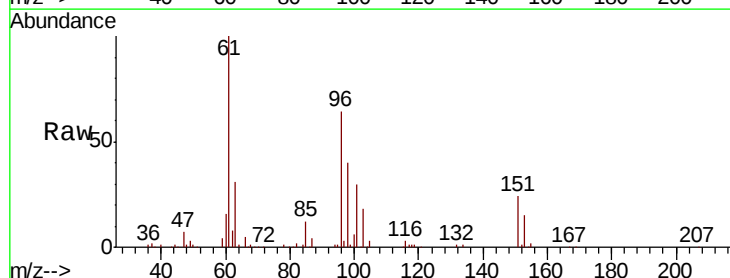
Tot Ion: 59 Resp: 61852
 Ion Ratio Lower Upper
 59 100
 57 5.7 7.7 11.5#

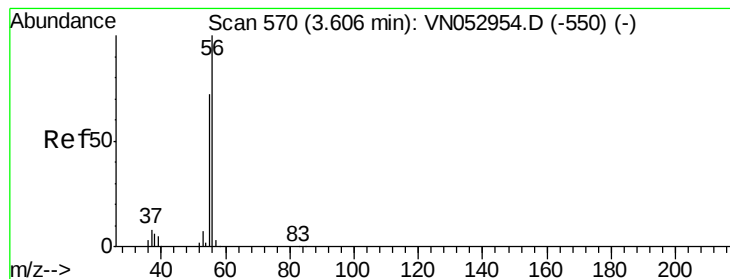


#12

1,1-Dichloroethene
 Concen: 19.657 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion: 96 Resp: 198268
 Ion Ratio Lower Upper
 96 100
 61 156.8 125.6 188.4
 98 62.0 50.6 75.8





#13

Acrolein

Concen: 116.094 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

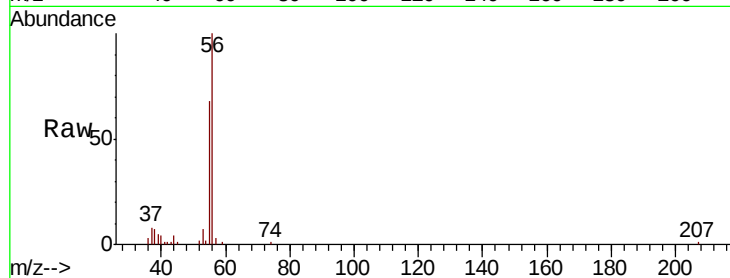
VN1219WBS01

Tot Ion: 56 Resp: 68978

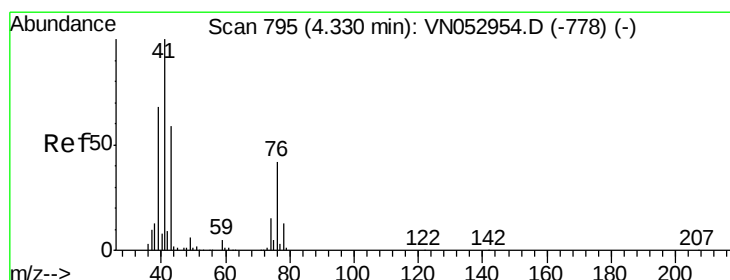
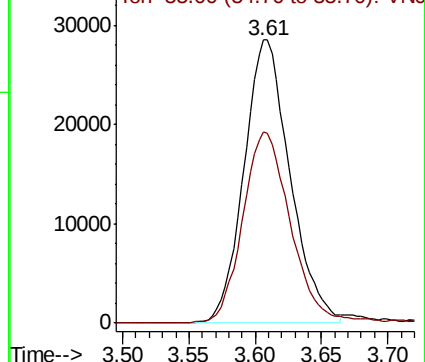
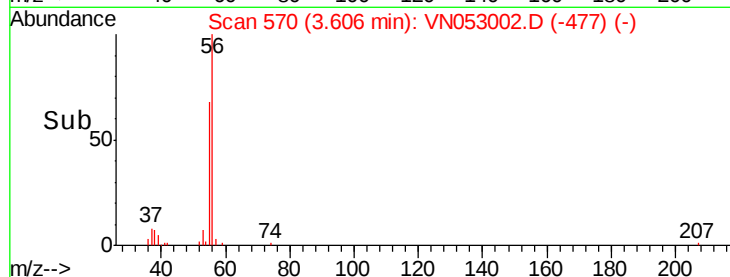
Ion Ratio Lower Upper

56 100

55 70.1 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VN053002.D (-477) (-)



#14

Allyl chloride

Concen: 20.714 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

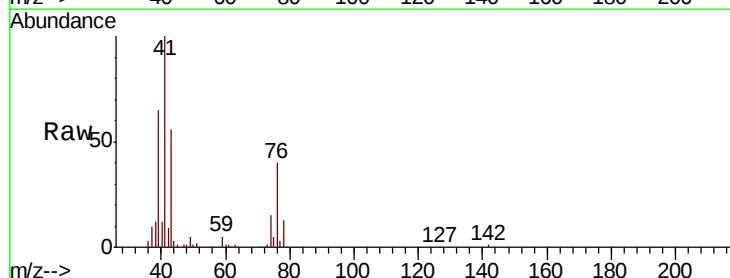
Tgt Ion: 41 Resp: 323633

Ion Ratio Lower Upper

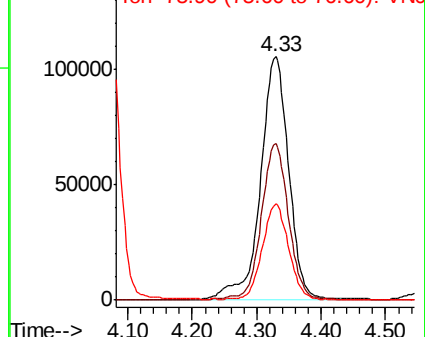
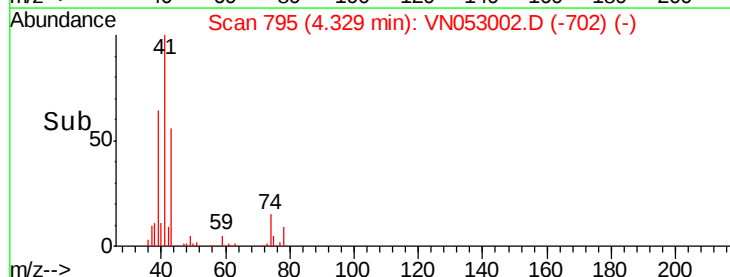
41 100

39 61.7 54.1 81.1

76 36.0 30.3 45.5



Abundance Ion 41.00 (40.70 to 41.70): VN053002.D (-702) (-)





#15

Acrylonitrile

Concen: 96.690 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampled :

VN1219WBS01

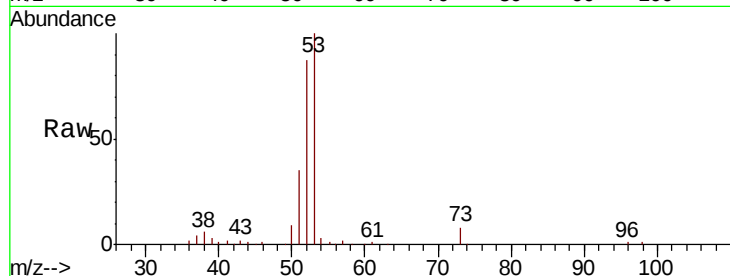
Tot Ion: 53 Resp: 351982

Ion Ratio Lower Upper

53 100

52 82.9 65.1 97.7

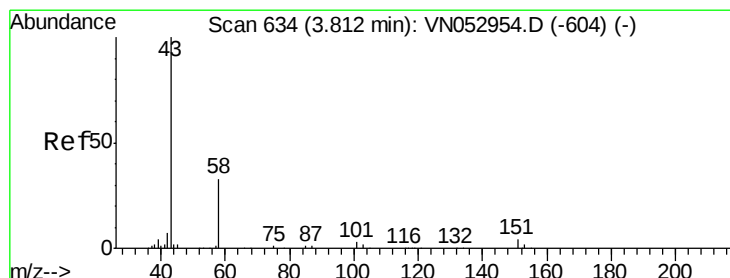
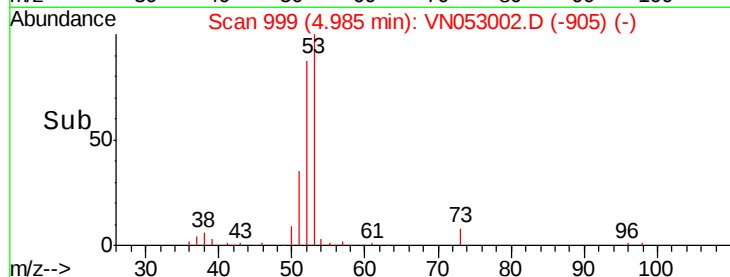
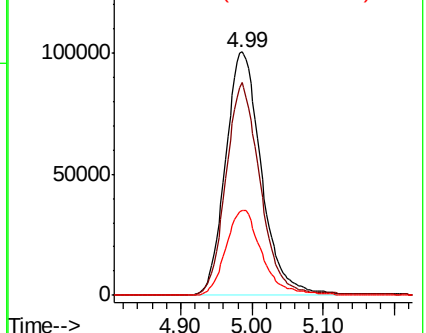
51 35.2 28.1 42.1



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 107.818 ug/l

RT: 3.81 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053002.D

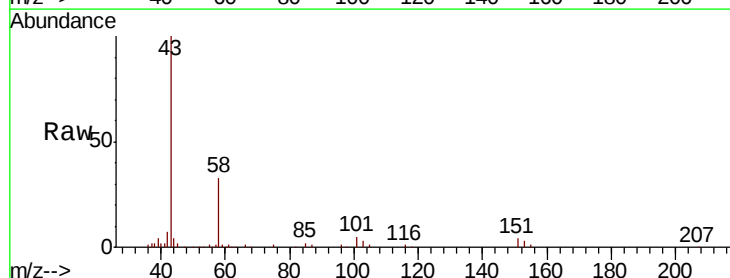
Acq: 19 Dec 2018 11:16

Tgt Ion: 43 Resp: 227025

Ion Ratio Lower Upper

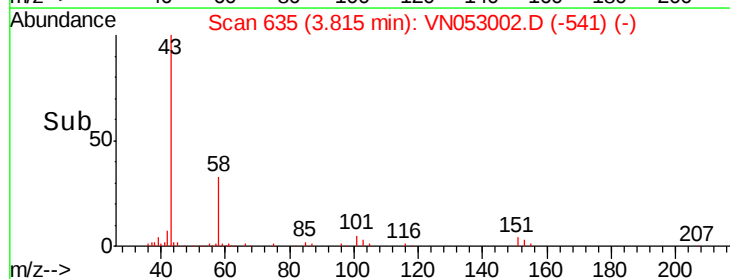
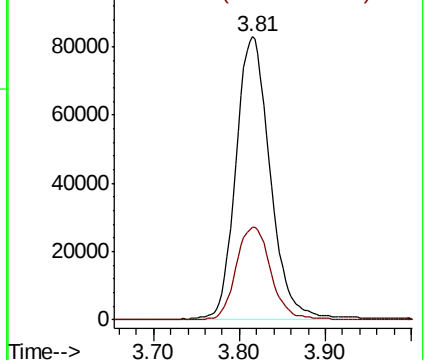
43 100

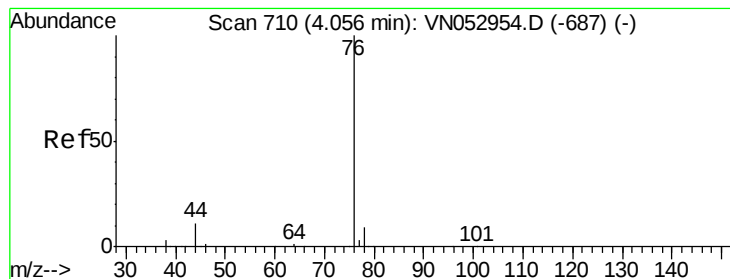
58 33.0 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 17.730 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

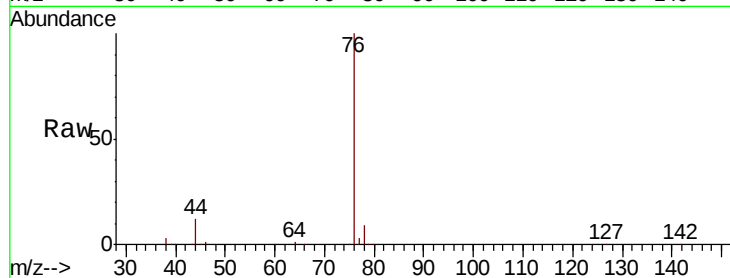
VN1219WBS01

Tot Ion: 76 Resp: 583204

Ion Ratio Lower Upper

76 100

78 8.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VN052954.D (-687) (-)

Ion 77.90 (77.60 to 78.60): VN052954.D (-687) (-)

4.06

250000

200000

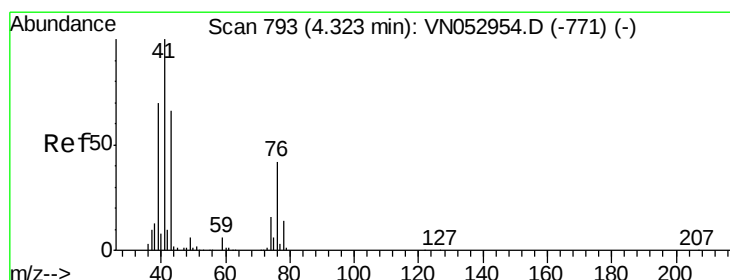
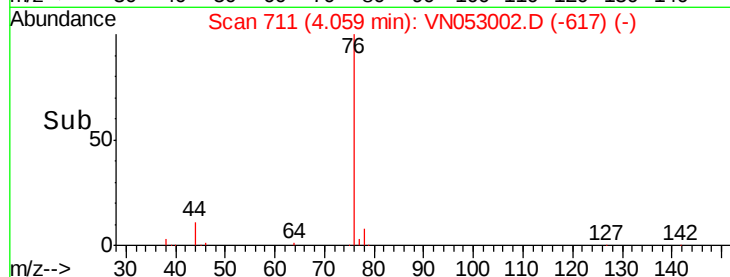
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 19.404 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN053002.D

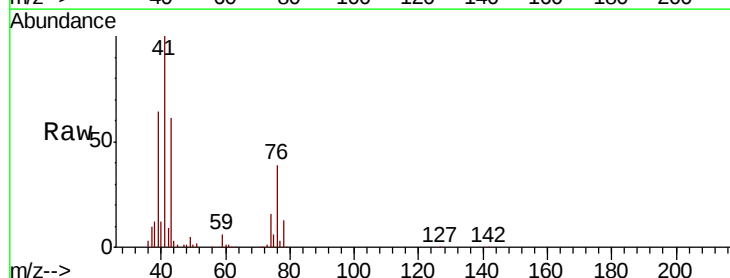
Acq: 19 Dec 2018 11:16

Tgt Ion: 43 Resp: 179521

Ion Ratio Lower Upper

43 100

74 24.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-771) (-)

Ion 74.00 (73.70 to 74.70): VN052954.D (-771) (-)

4.32

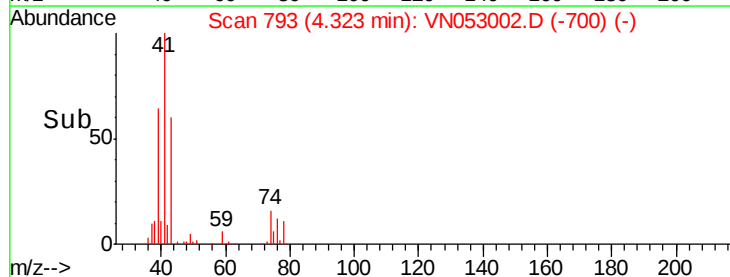
60000

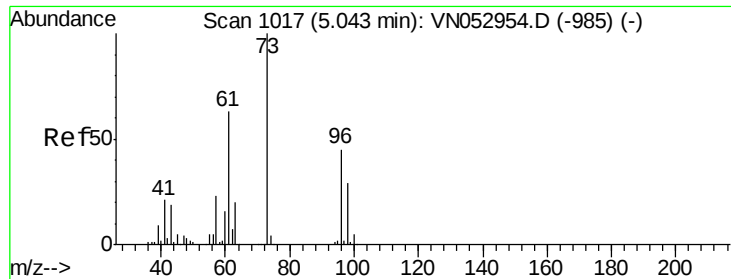
40000

20000

0

Time-->

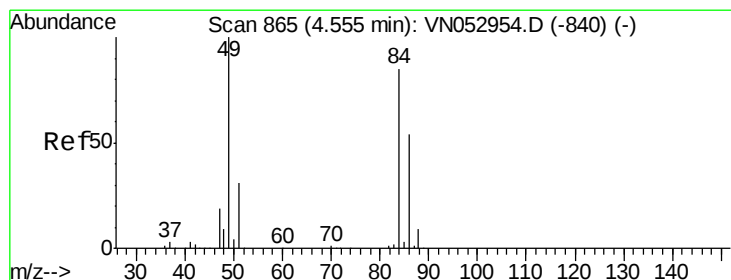
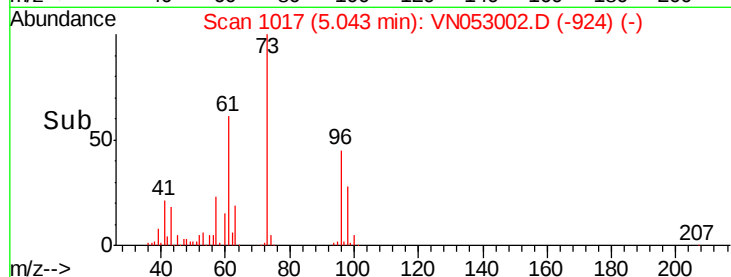
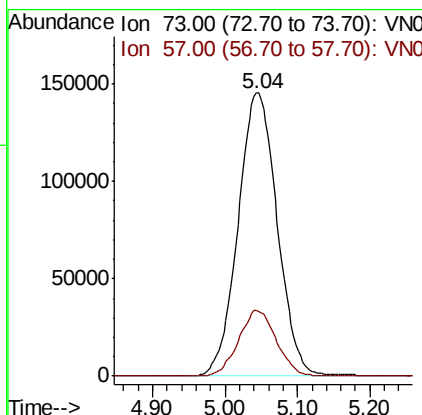
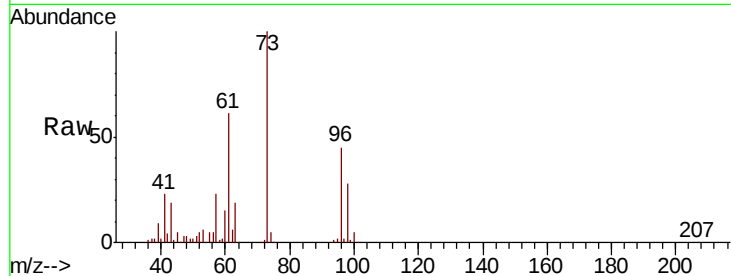




#19
Methvl tert-butvl Ether
Concen: 20.192 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

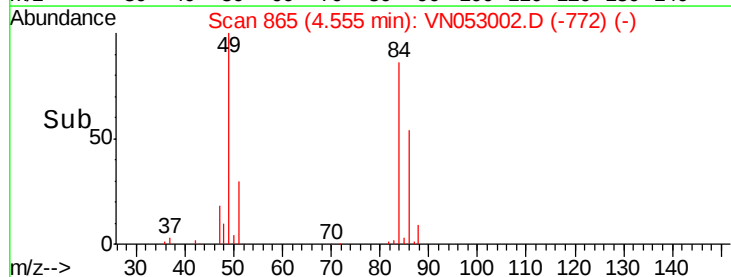
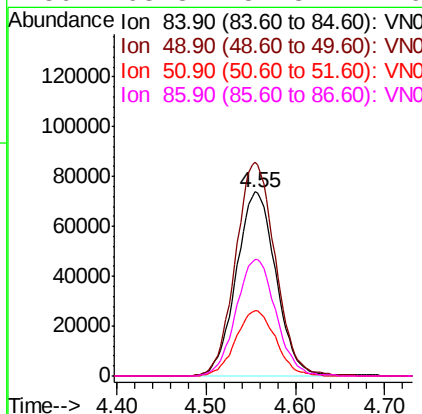
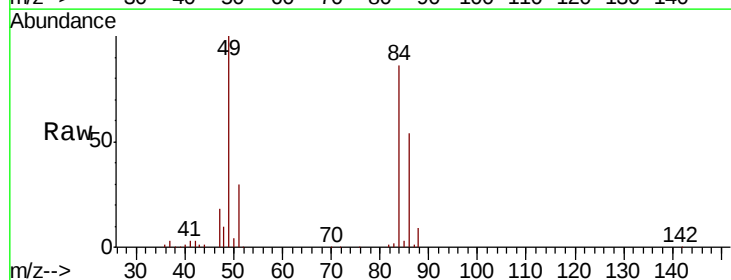
Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

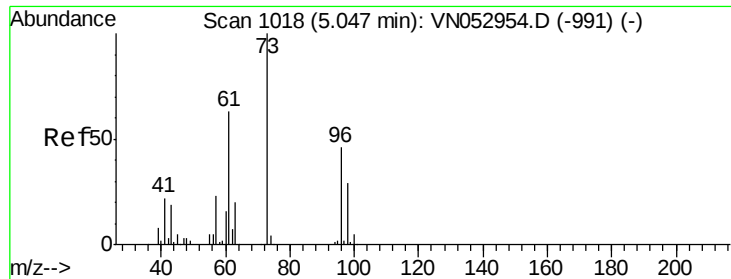
Tot Ion: 73 Resp: 545037
Ion Ratio Lower Upper
73 100
57 23.2 18.4 27.6



#20
Methylene Chloride
Concen: 19.891 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 84 Resp: 228467
Ion Ratio Lower Upper
84 100
49 116.1 96.8 145.2
51 35.4 29.9 44.9
86 63.3 51.8 77.6

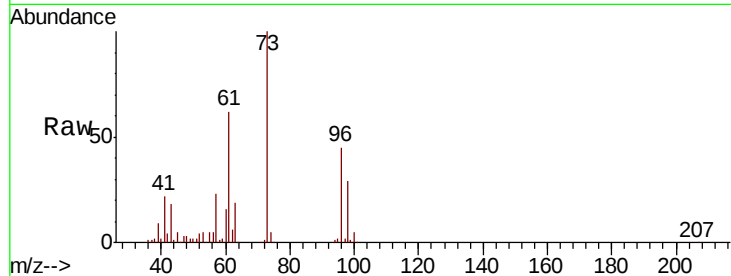




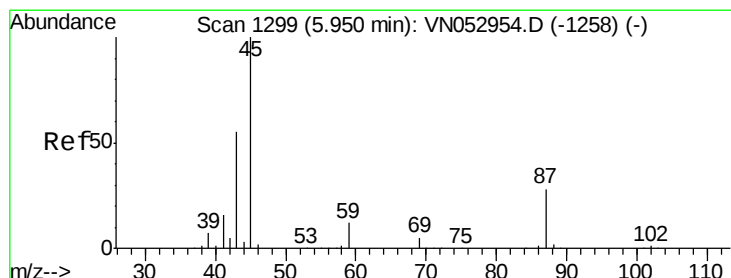
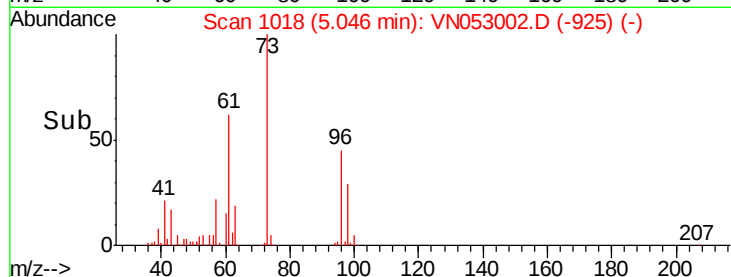
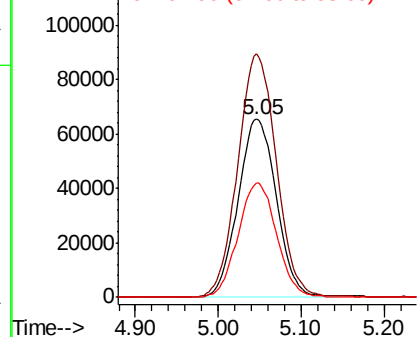
#21
trans-1,2-Dichloroethene
Concen: 19.465 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampled :
VN1219WBS01

Tot Ion: 96 Resp: 210948
Ion Ratio Lower Upper
96 100
61 136.6 110.8 166.2
98 64.4 51.4 77.2

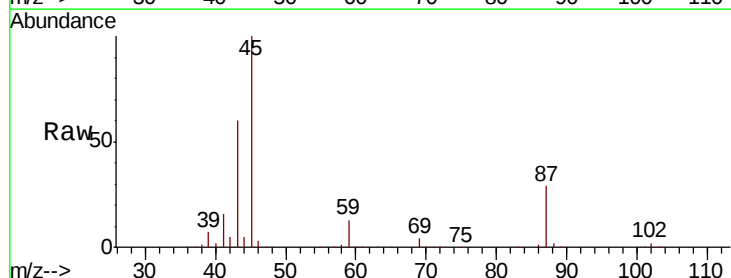


Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC

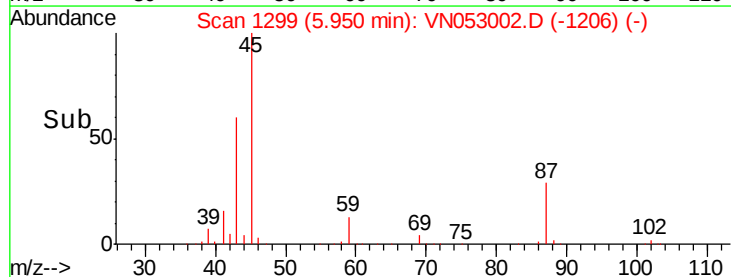
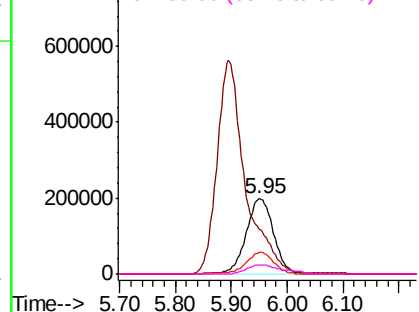


#22
Diisopropyl ether
Concen: 20.351 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 45 Resp: 678687
Ion Ratio Lower Upper
45 100
43 59.5 45.5 68.3
87 28.8 22.0 33.0
59 12.7 9.4 14.0



Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 102.980 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

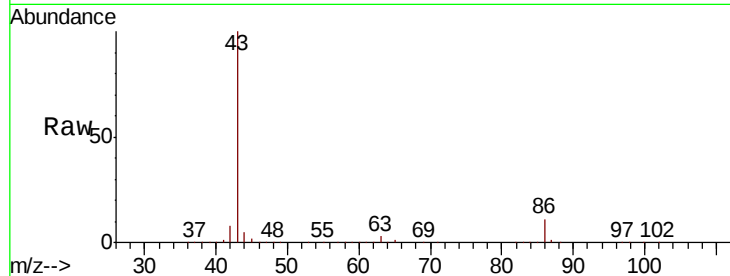
VN1219WBS01

Tot Ion: 43 Resp: 1974819

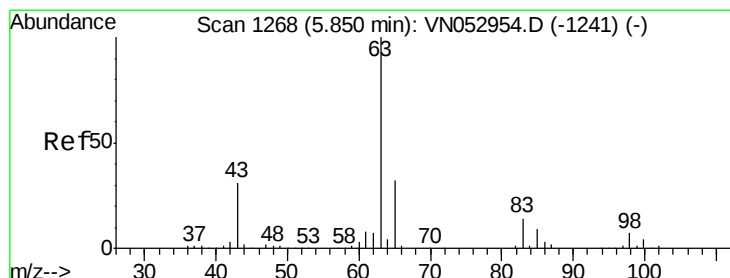
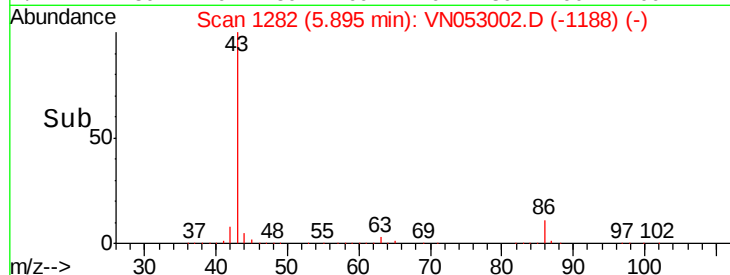
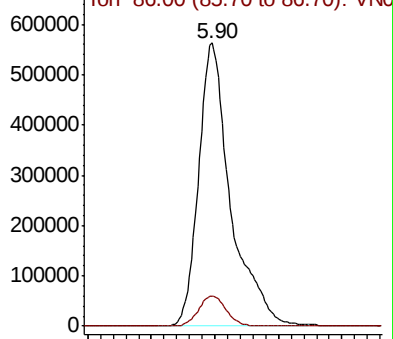
Ion Ratio Lower Upper

43 100

86 10.7 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VN053002.D (-1188) (-)



#24

1,1-Dichloroethane

Concen: 19.919 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

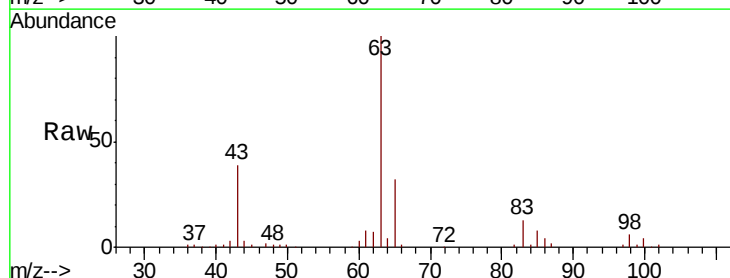
Tgt Ion: 63 Resp: 394737

Ion Ratio Lower Upper

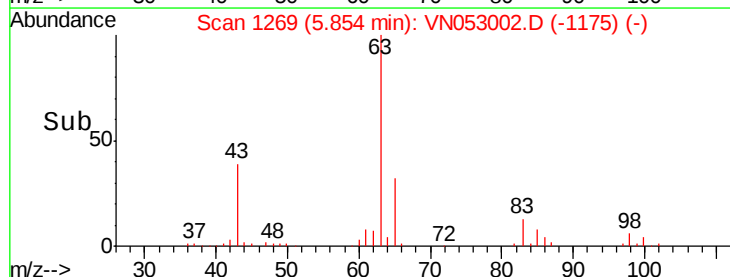
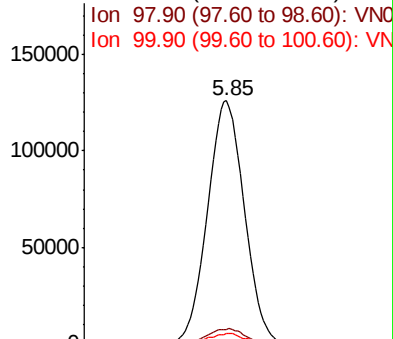
63 100

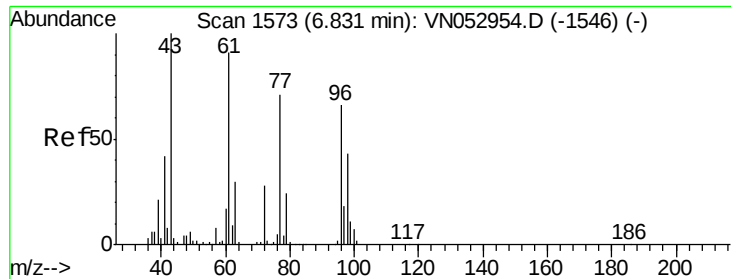
98 6.0 3.1 9.4

100 4.1 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN053002.D (-1175) (-)

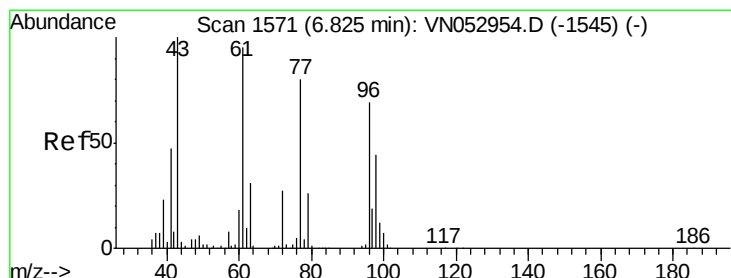
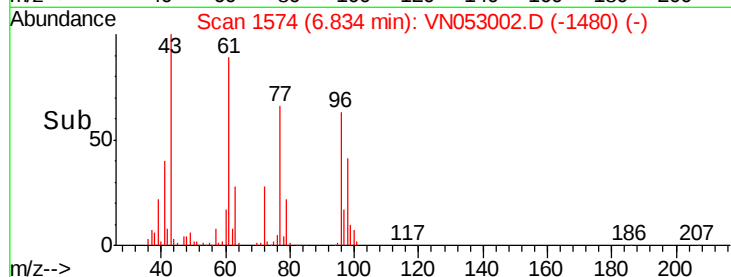
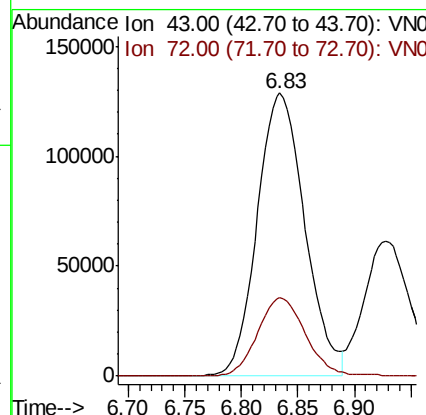
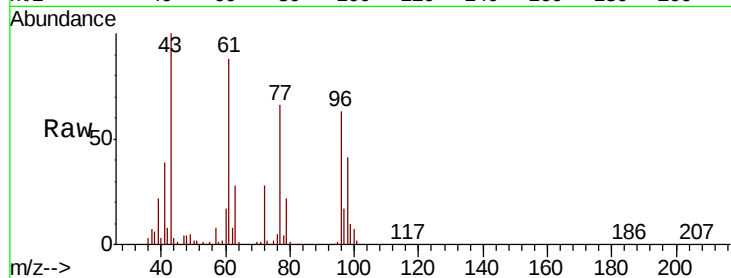




#25
2-Butanone
Concen: 105.790 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

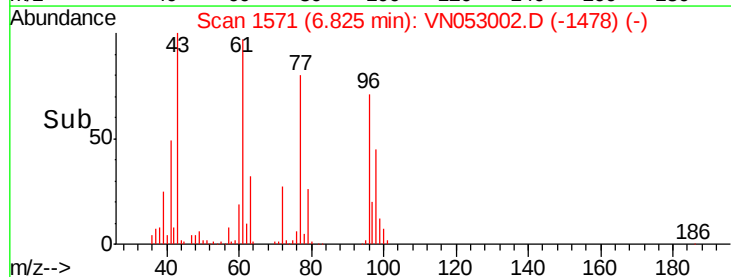
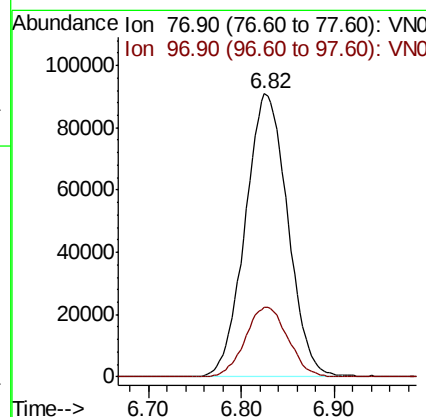
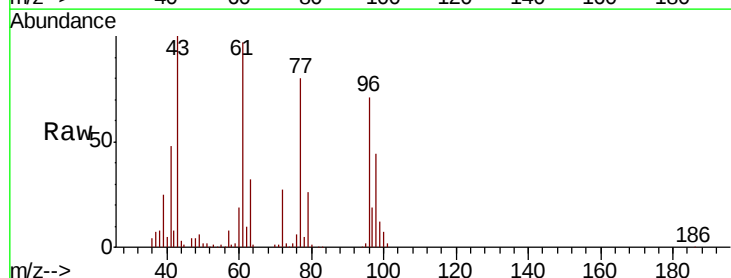
Instrument :
MSVOA_N
ClientSampled :
VN1219WBS01

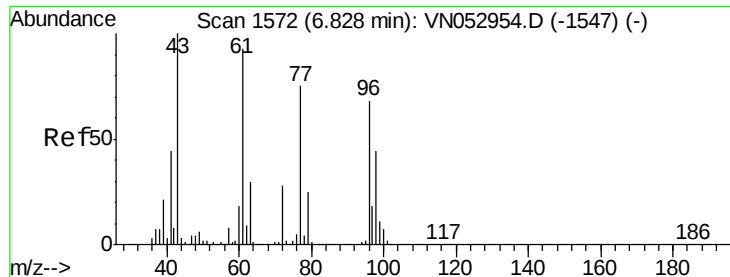
Tot Ion: 43 Resp: 373835
Ion Ratio Lower Upper
43 100
72 27.9 21.0 31.6



#26
2,2-Dichloropropane
Concen: 19.107 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 77 Resp: 289037
Ion Ratio Lower Upper
77 100
97 24.7 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 19.937 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

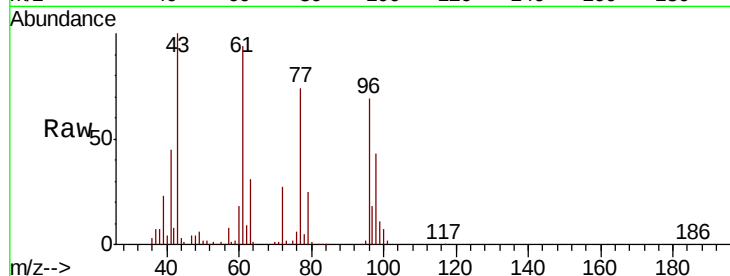
Tot Ion: 96 Resp: 244600

Ion Ratio Lower Upper

96 100

61 140.2 0.0 284.2

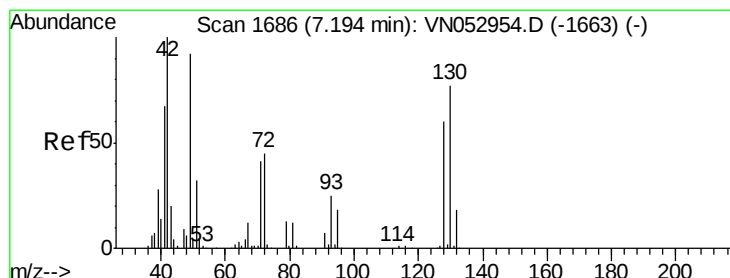
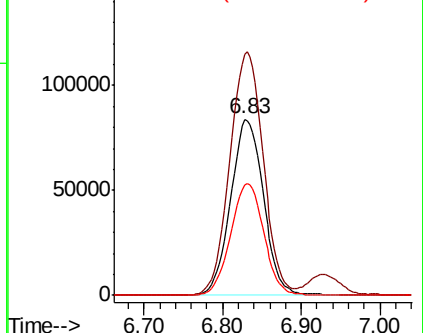
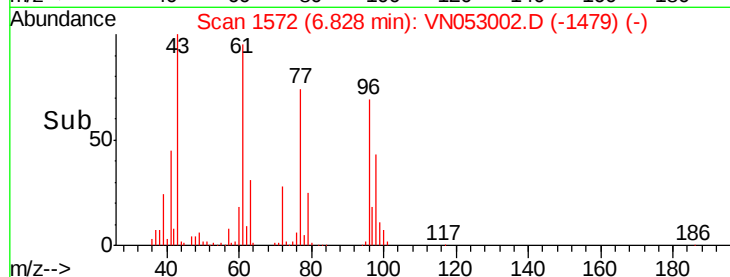
98 64.0 0.0 129.2



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 21.525 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

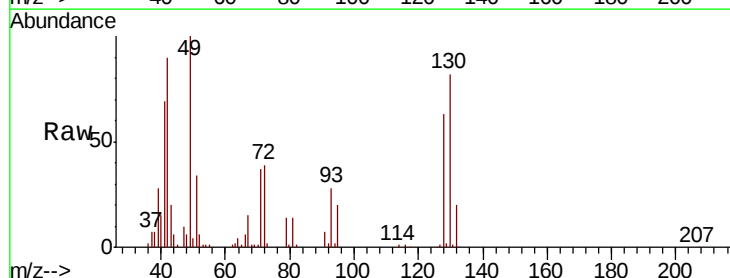
Tgt Ion: 49 Resp: 184835

Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

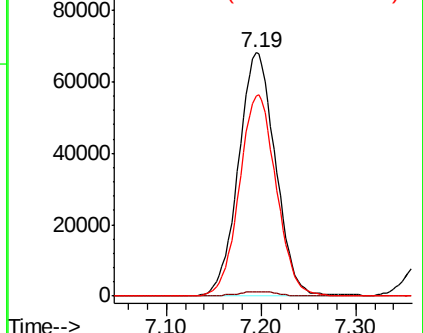
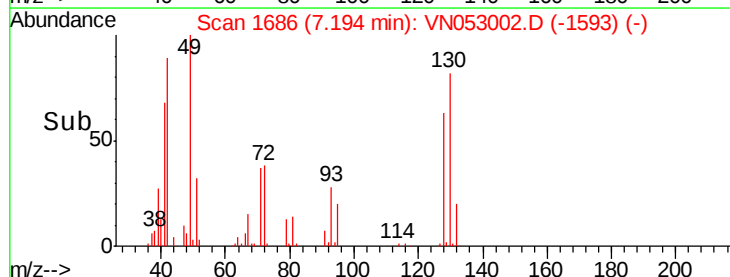
130 82.4 63.3 94.9

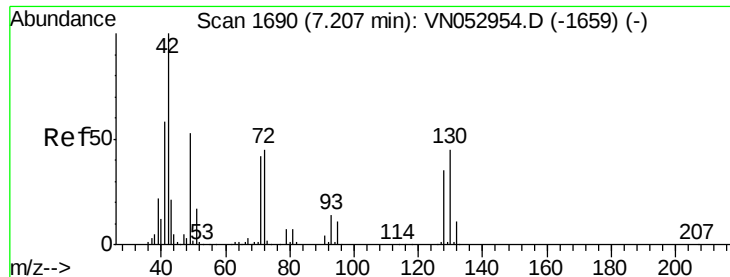


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 100.586 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

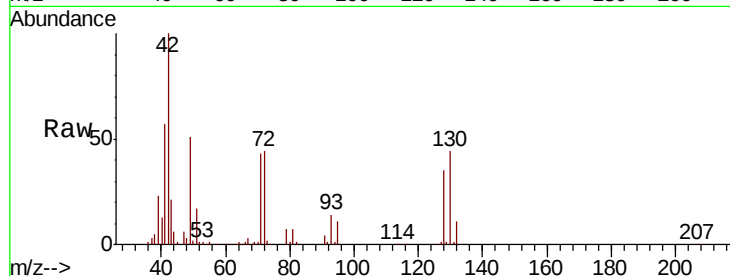
Tot Ion: 42 Resp: 265471

Ion Ratio Lower Upper

42 100

72 44.4 34.7 52.1

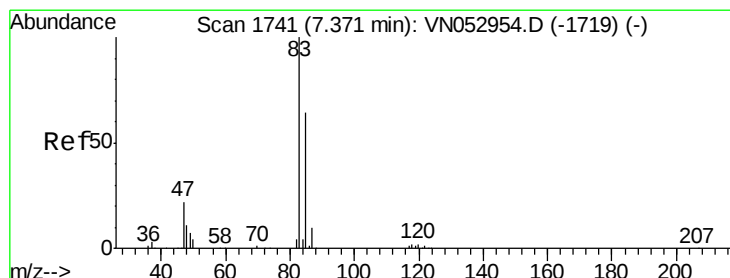
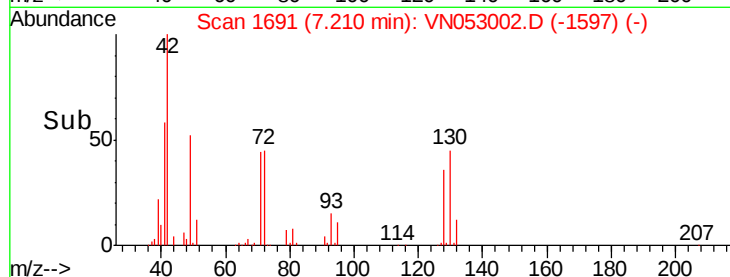
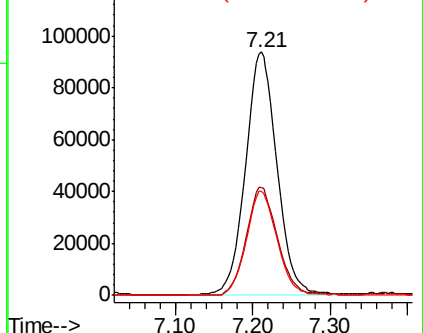
71 41.9 32.3 48.5



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 19.879 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN053002.D

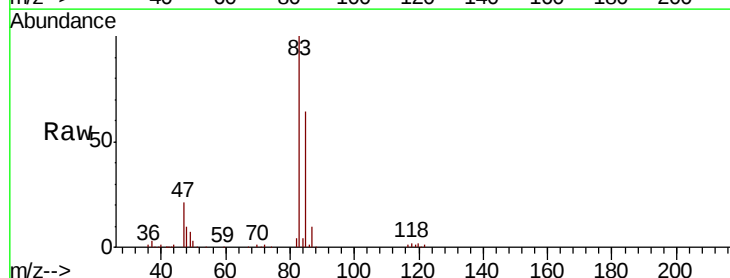
Acq: 19 Dec 2018 11:16

Tgt Ion: 83 Resp: 386977

Ion Ratio Lower Upper

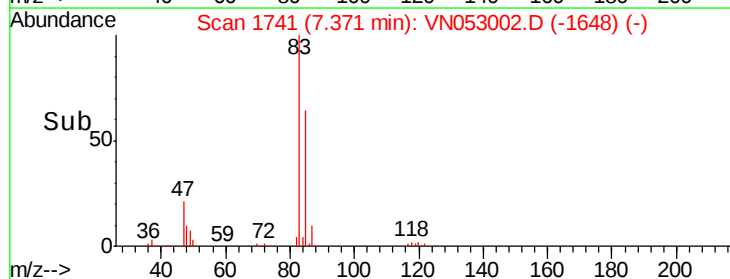
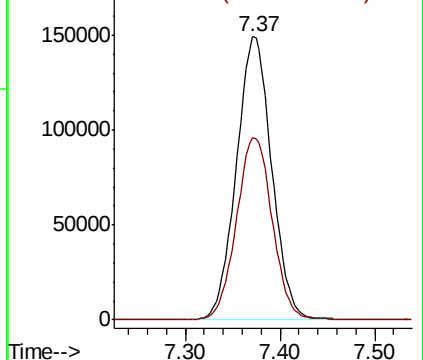
83 100

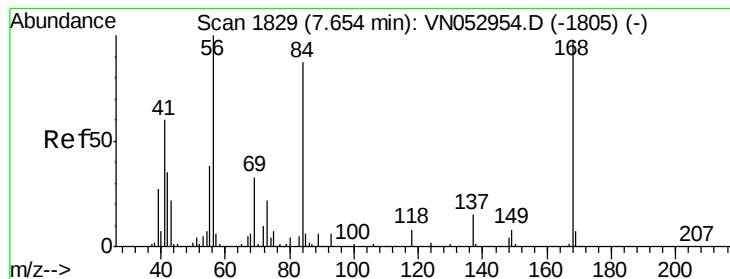
85 64.3 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 19.789 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

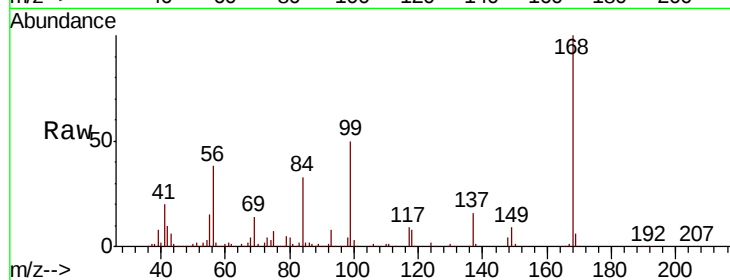
Tot Ion: 56 Resp: 379601

Ion Ratio Lower Upper

56 100

69 36.3 26.6 39.8

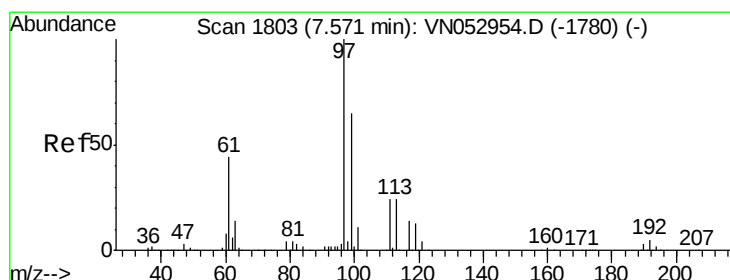
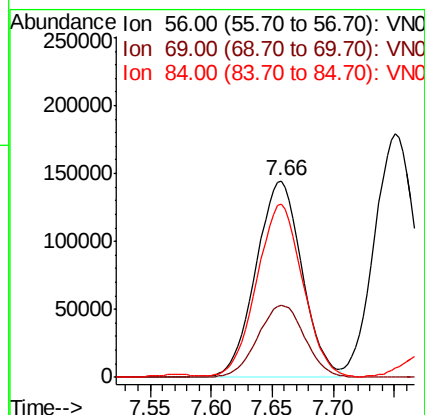
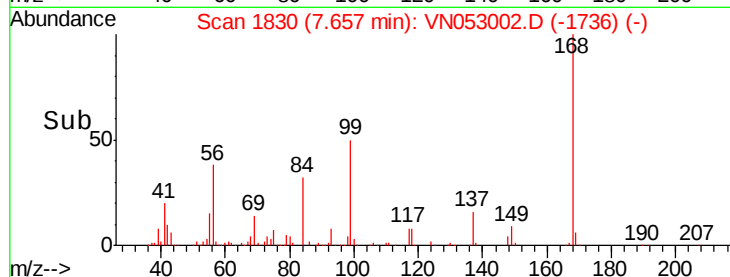
84 86.9 68.4 102.6



Abundance Ion 56.00 (55.70 to 56.70): VN053002.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN053002.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN053002.D (-1736) (-)



#32

1,1,1-Trichloroethane

Concen: 19.535 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

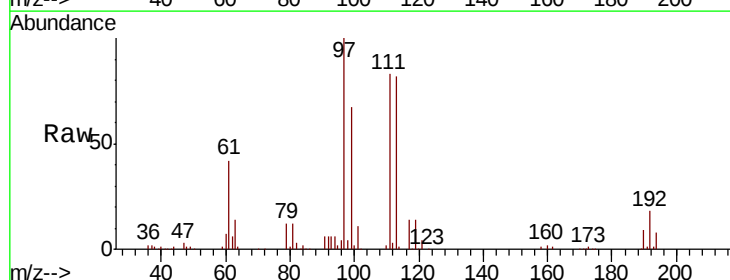
Tgt Ion: 97 Resp: 323955

Ion Ratio Lower Upper

97 100

99 64.8 51.1 76.7

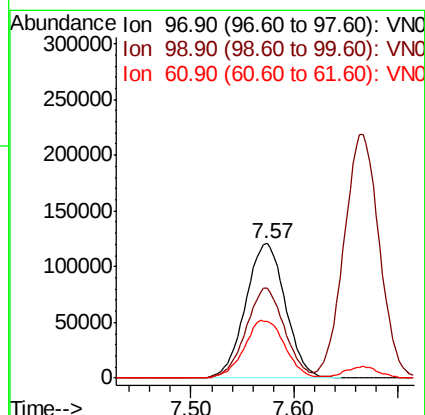
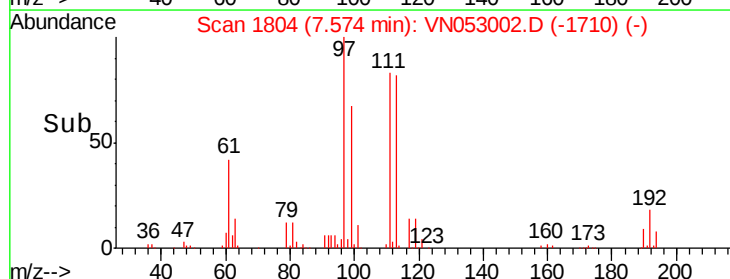
61 43.8 35.0 52.6



Abundance Ion 96.90 (96.60 to 97.60): VN053002.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN053002.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN053002.D (-1710) (-)

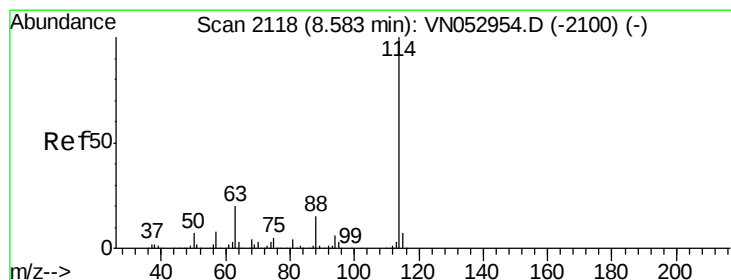
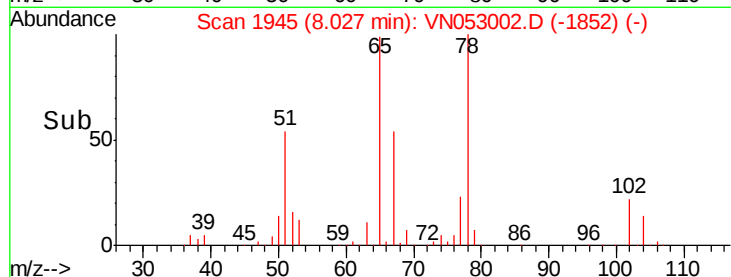
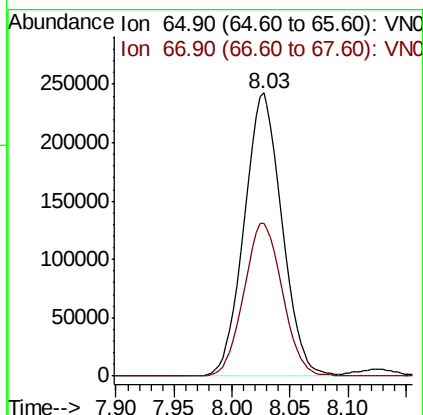
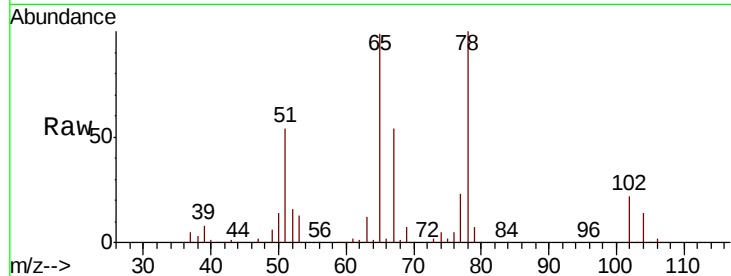




#33
 1,2-Dichloroethane-d4
 Concen: 19.535 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

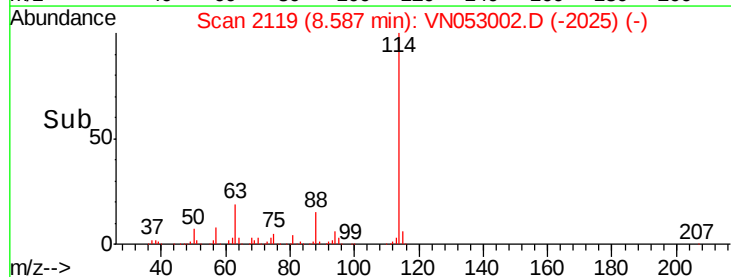
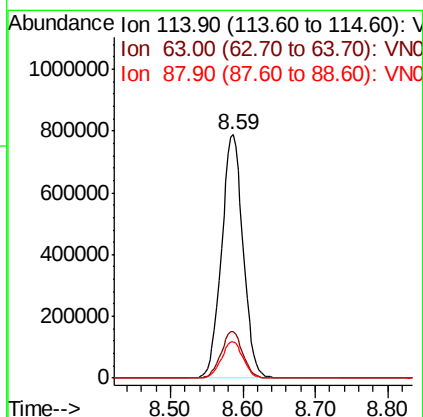
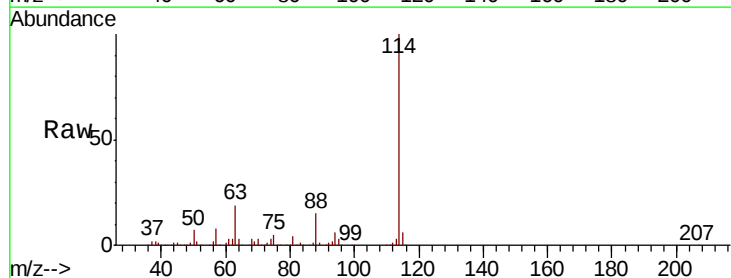
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

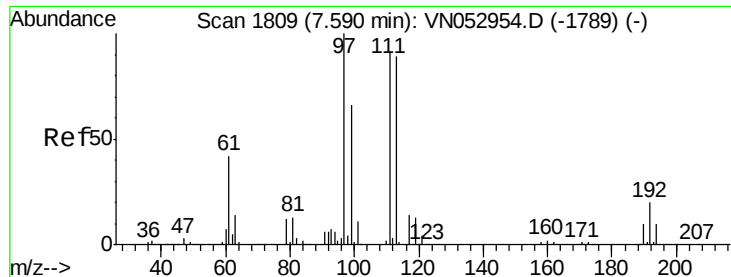
Tot Ion: 65 Resp: 552055
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion: 114 Resp: 1617345
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.8
 88 15.0 0.0 31.0

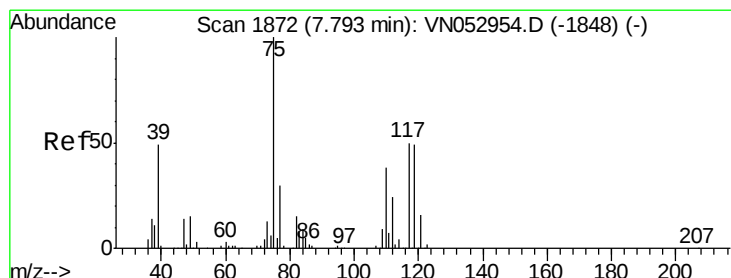
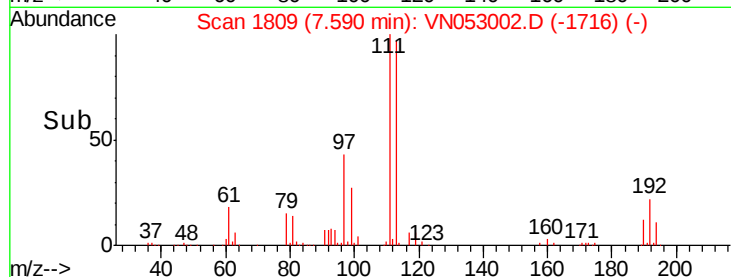
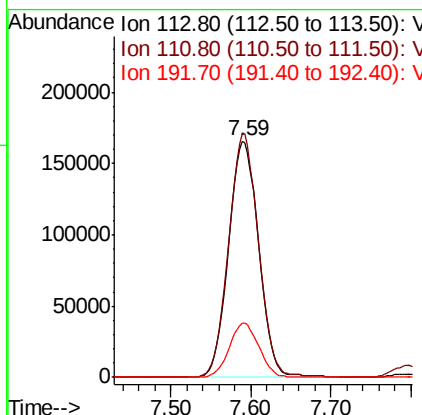
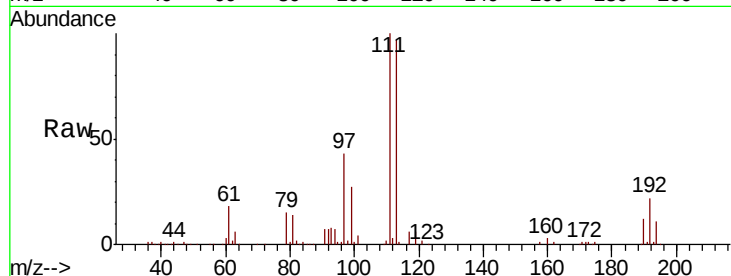




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

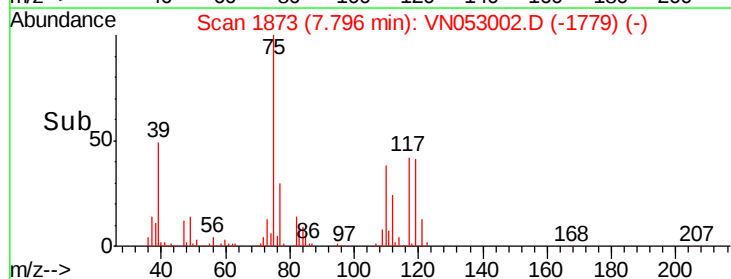
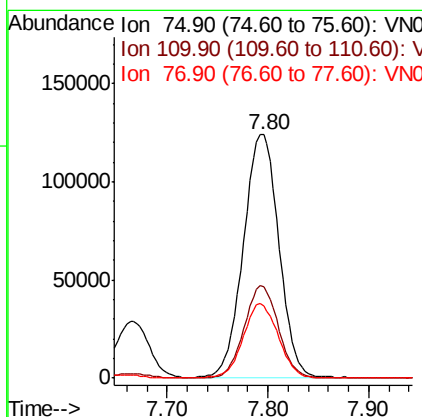
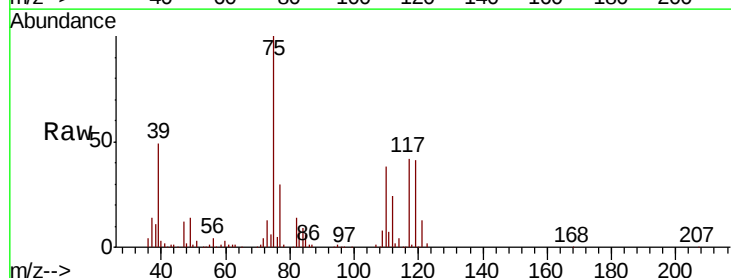
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

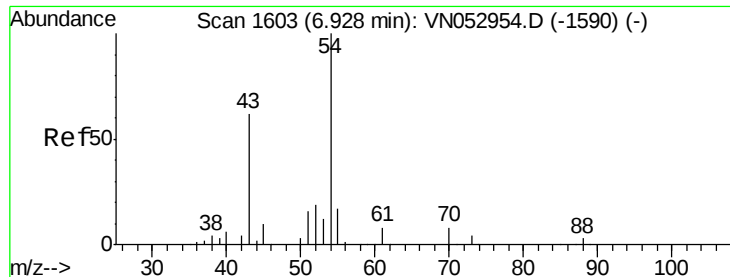
Tot Ion:113 Resp: 423350
 Ion Ratio Lower Upper
 113 100
 111 102.1 83.0 124.4
 192 22.6 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 19.432 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion: 75 Resp: 301652
 Ion Ratio Lower Upper
 75 100
 110 36.7 18.2 54.6
 77 30.5 24.9 37.3

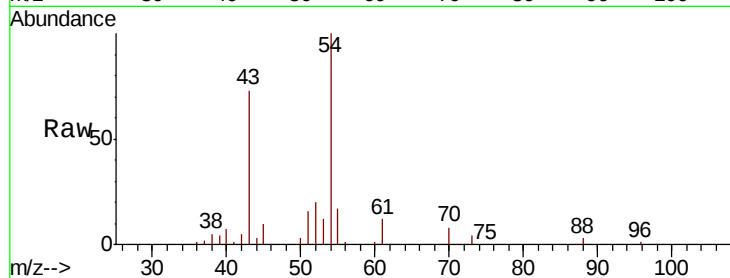




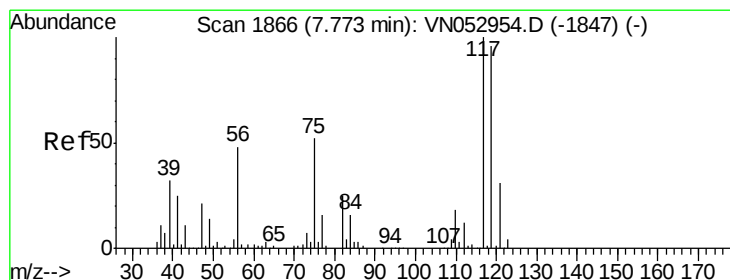
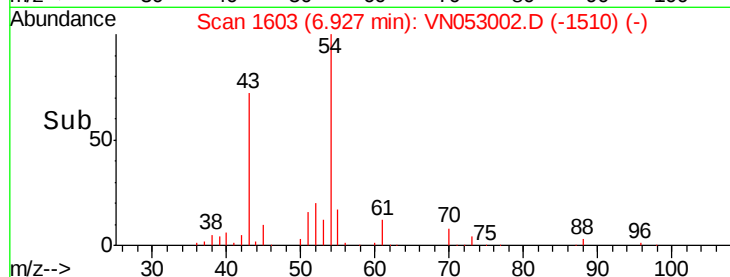
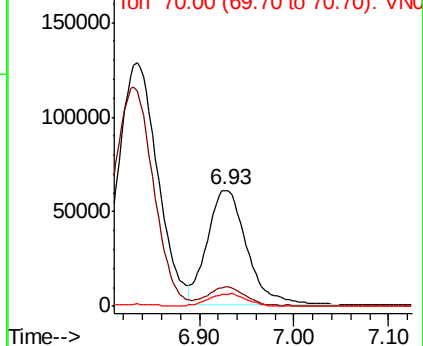
#37
Ethyl Acetate
Concen: 20.425 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion: 43 Resp: 177009
Ion Ratio Lower Upper
43 100
61 14.8 11.8 17.6
70 10.4 8.4 12.6

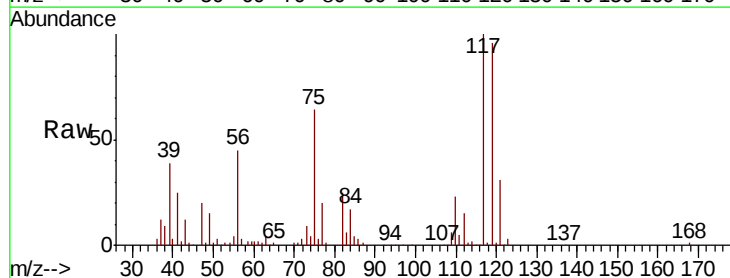


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

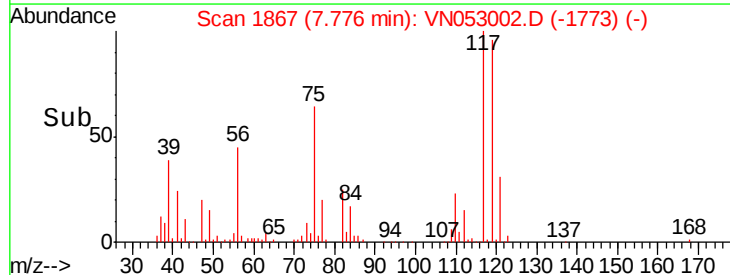
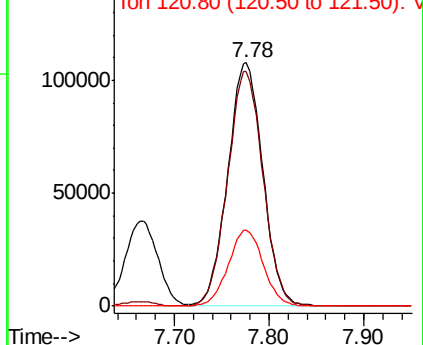


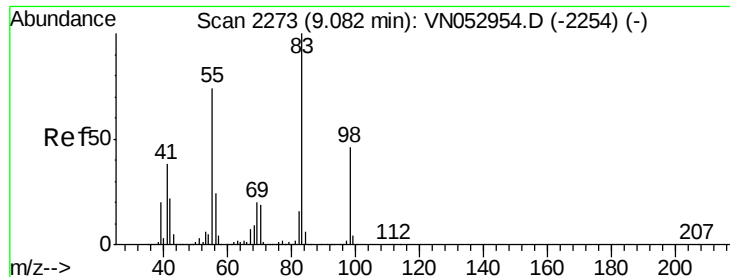
#38
Carbon Tetrachloride
Concen: 19.453 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 117 Resp: 276801
Ion Ratio Lower Upper
117 100
119 96.1 77.1 115.7
121 31.5 24.9 37.3



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

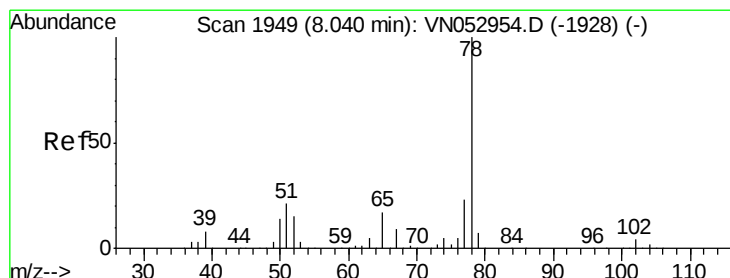
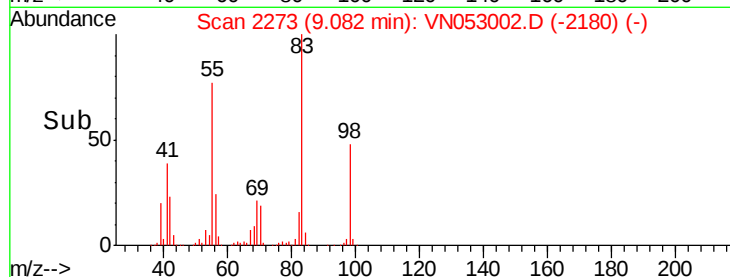
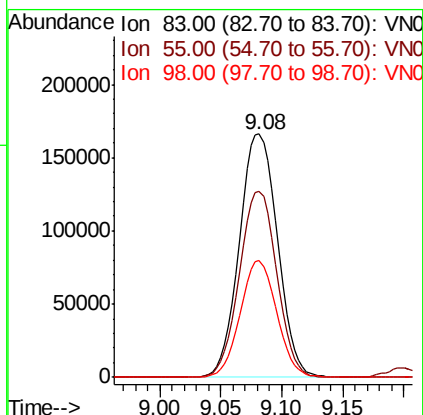
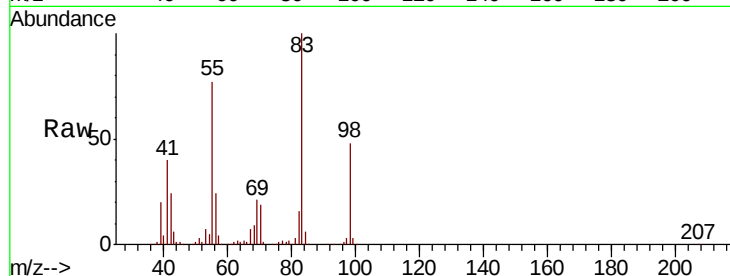




#39
Methvlcvclohexane
Concen: 19.062 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

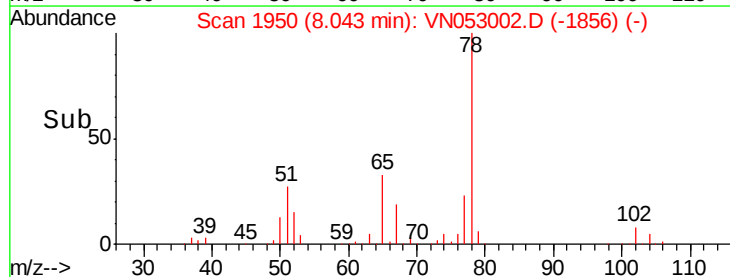
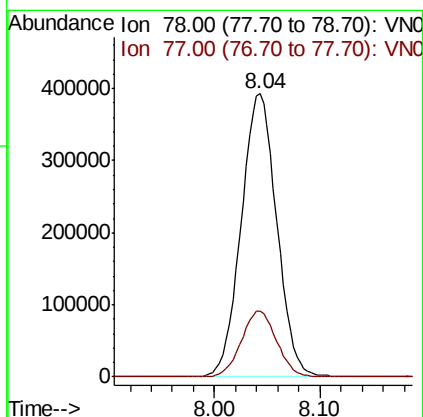
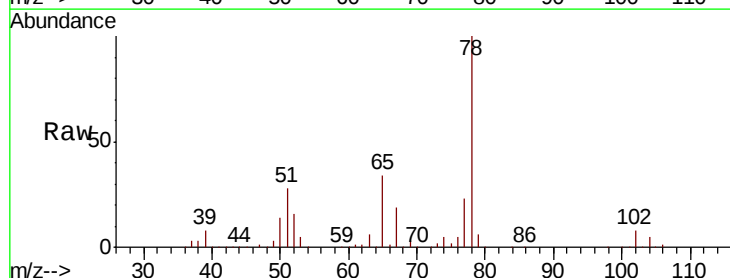
Instrument :
MSVOA_N
ClientSampled :
VN1219WBS01

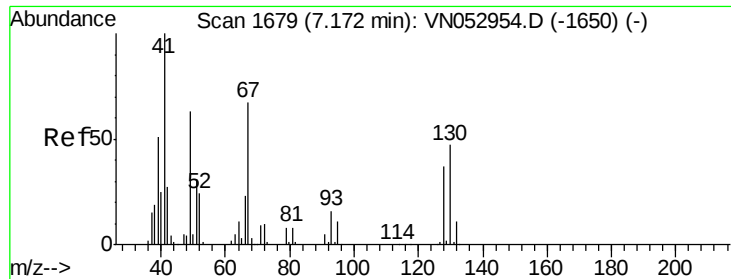
Tot Ion: 83 Resp: 359468
Ion Ratio Lower Upper
83 100
55 76.6 61.3 91.9
98 47.8 37.0 55.4



#40
Benzene
Concen: 19.934 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 78 Resp: 920468
Ion Ratio Lower Upper
78 100
77 23.3 18.5 27.7

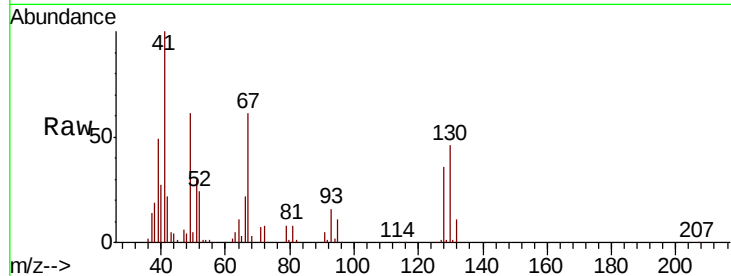




#41
Methacrylonitrile
Concen: 19.440 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion:	41	Resp:	97339
Ion	Ratio	Lower	Upper
41	100		
39	61.9	48.0	72.0
67	86.5	70.3	105.5
52	34.0	26.9	40.3



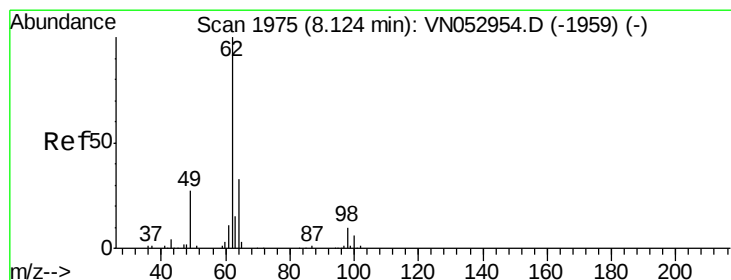
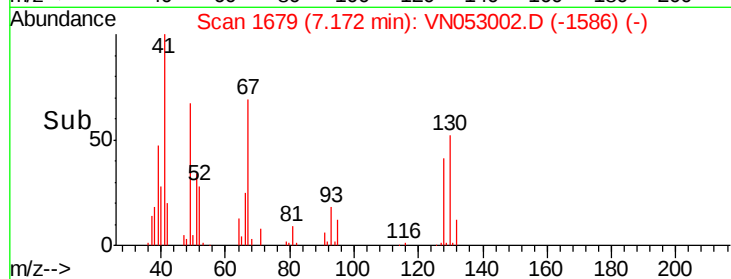
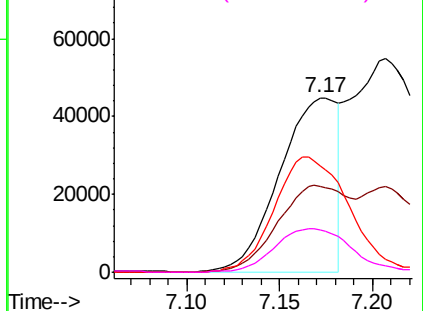
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

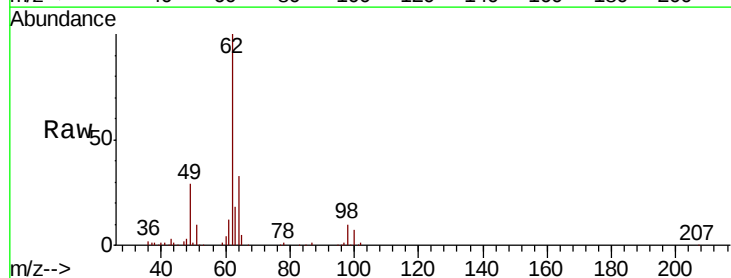
Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42
1,2-Dichloroethane
Concen: 19.686 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

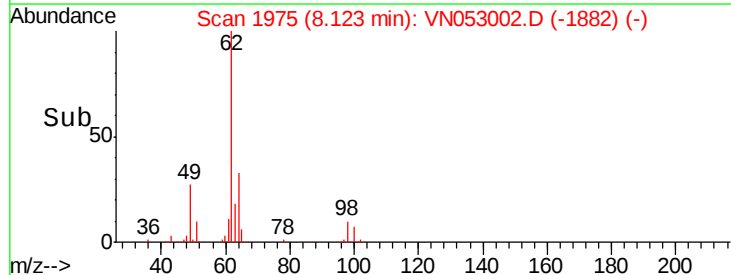
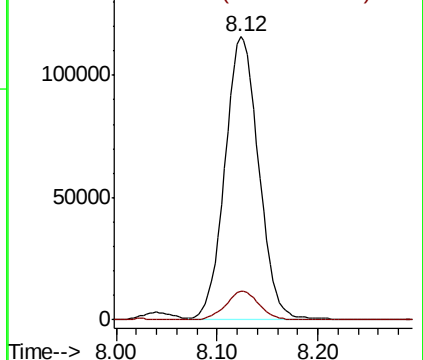
Tgt Ion:	62	Resp:	268534
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0

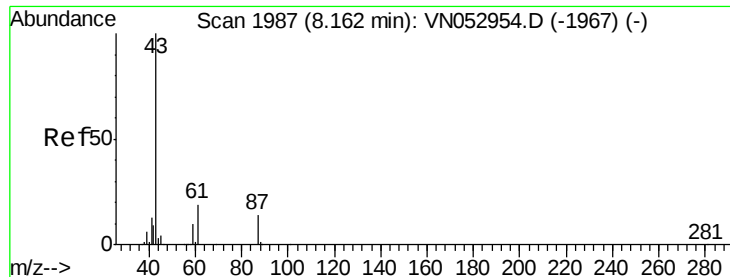


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 19.714 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

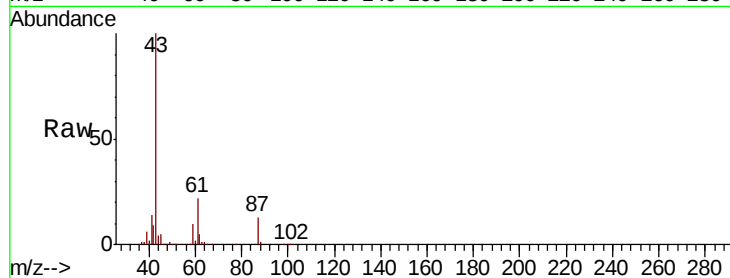
Tot Ion: 43 Resp: 341219

Ion Ratio Lower Upper

43 100

61 28.2 22.9 34.3

87 12.7 10.6 15.8

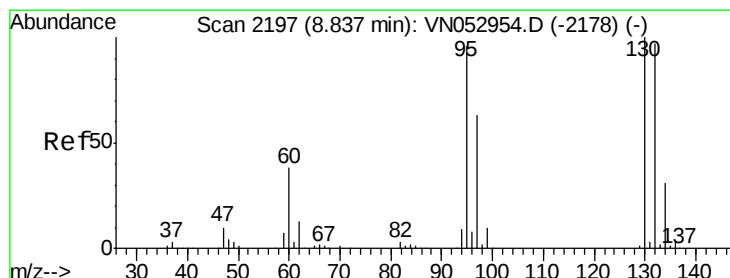
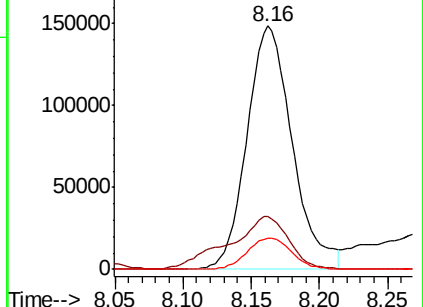
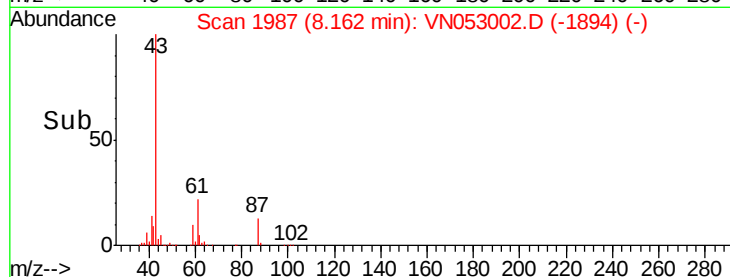


Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN052954.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN052954.D (-1967) (-)

Time--> 8.05 8.10 8.15 8.20 8.25



#44

Trichloroethene

Concen: 19.368 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN053002.D

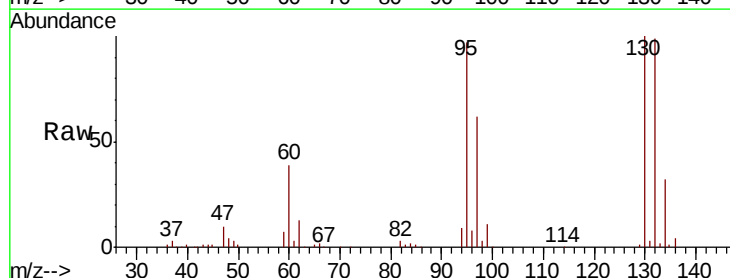
Acq: 19 Dec 2018 11:16

Tgt Ion: 130 Resp: 258670

Ion Ratio Lower Upper

130 100

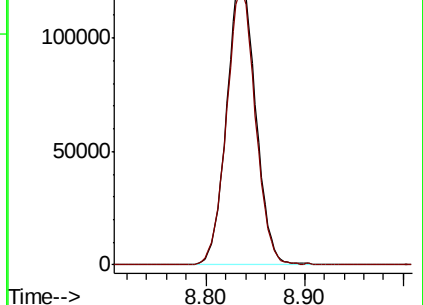
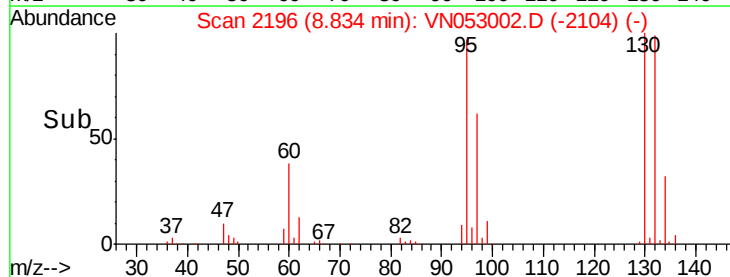
95 96.6 0.0 197.8

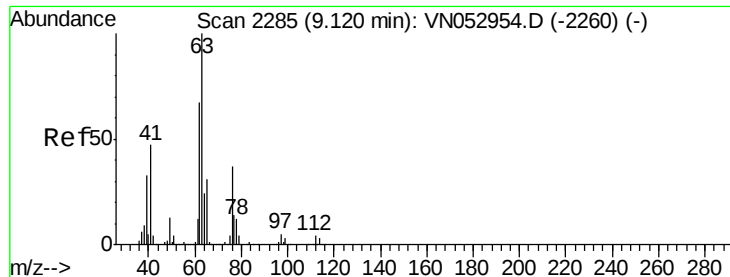


Abundance Ion 129.80 (129.50 to 130.50): VN052954.D (-2178) (-)

Ion 94.90 (94.60 to 95.60): VN052954.D (-2178) (-)

Time--> 8.80 8.90

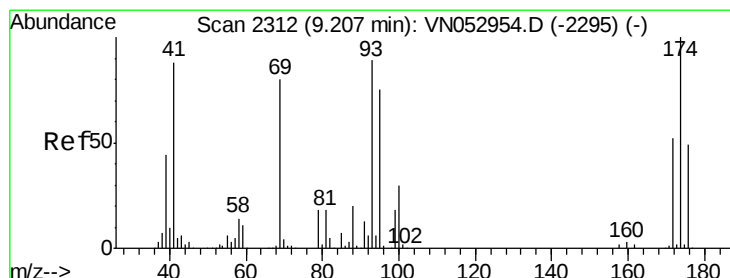
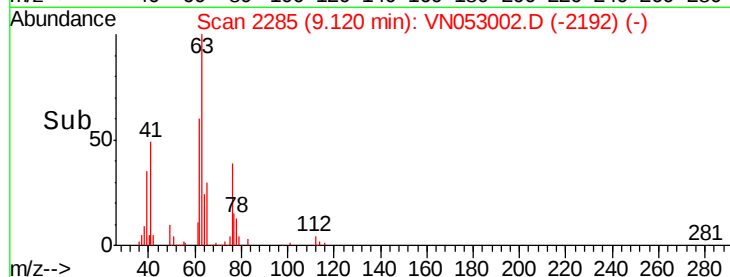
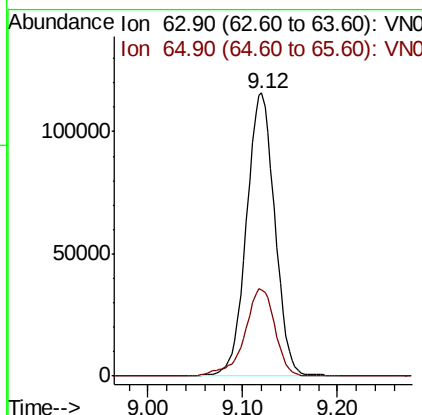
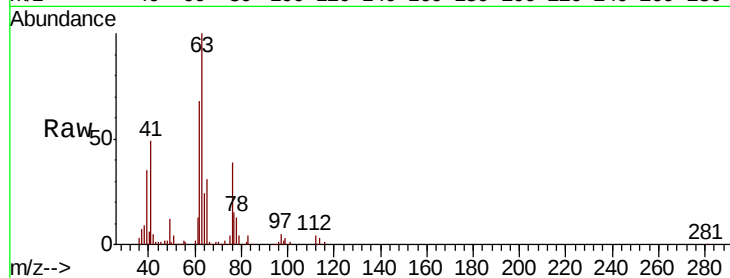




#45
 1,2-Dichloropropane
 Concen: 20.055 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

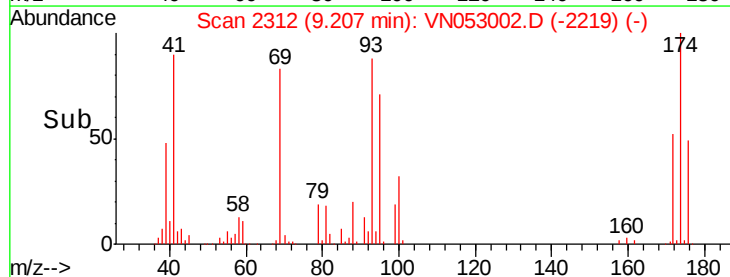
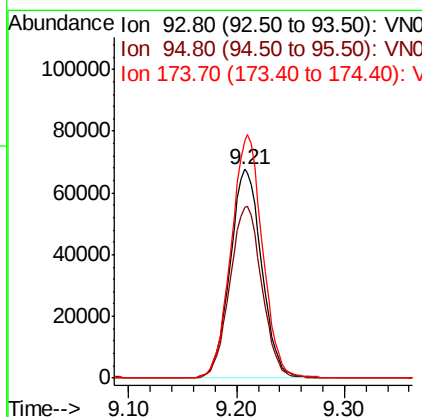
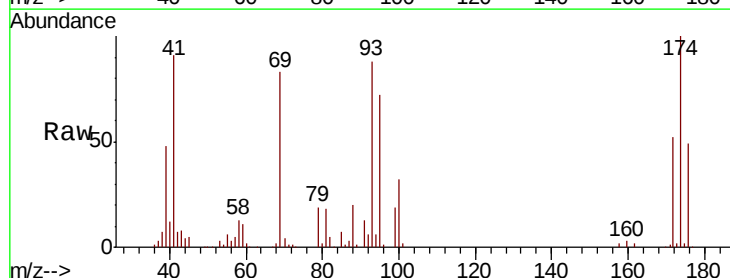
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

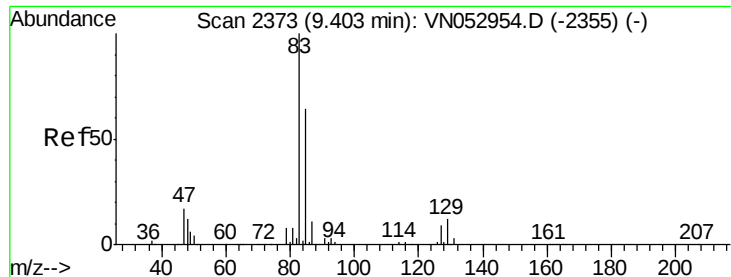
Tot Ion: 63 Resp: 241212
 Ion Ratio Lower Upper
 63 100
 65 30.7 24.6 37.0



#46
 Dibromomethane
 Concen: 19.730 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion: 93 Resp: 138239
 Ion Ratio Lower Upper
 93 100
 95 83.0 67.8 101.6
 174 115.5 89.0 133.4

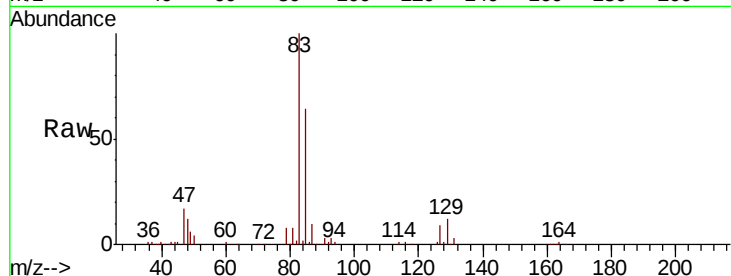




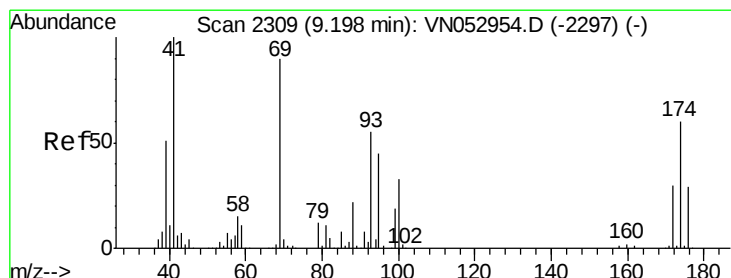
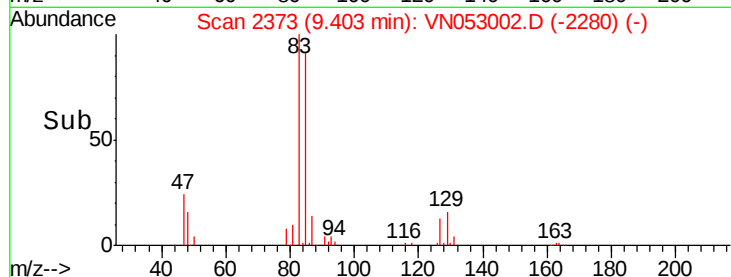
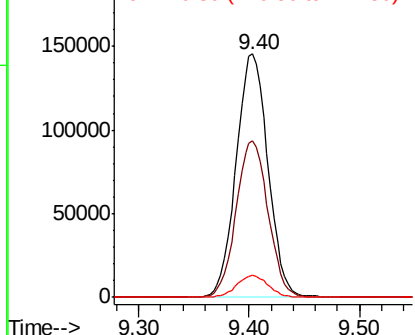
#47
Bromodichloromethane
Concen: 19.482 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion: 83 Resp: 290148
Ion Ratio Lower Upper
83 100
85 64.3 51.6 77.4
127 8.9 7.1 10.7

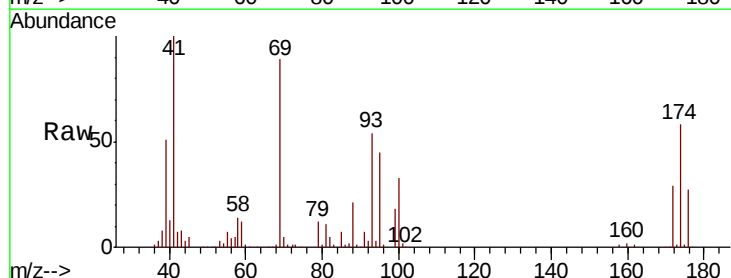


Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

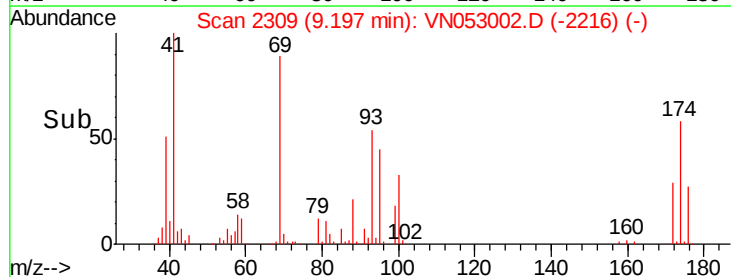
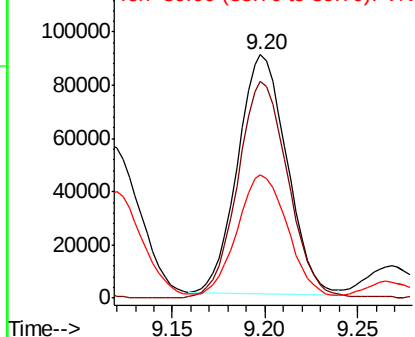


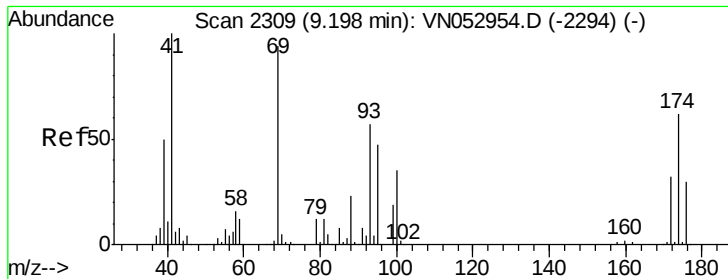
#48
Methyl methacrylate
Concen: 19.695 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 41 Resp: 165621
Ion Ratio Lower Upper
41 100
69 93.2 72.2 108.2
39 53.1 41.9 62.9



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 365.878 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

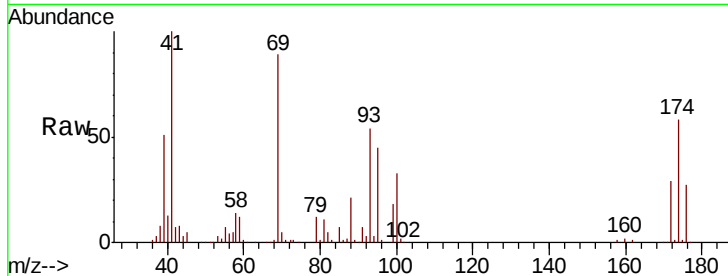
Tot Ion: 88 Resp: 38920

Ion Ratio Lower Upper

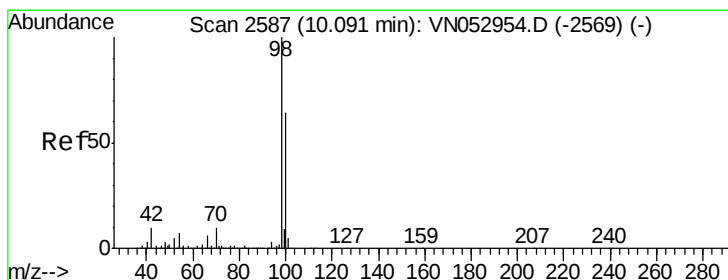
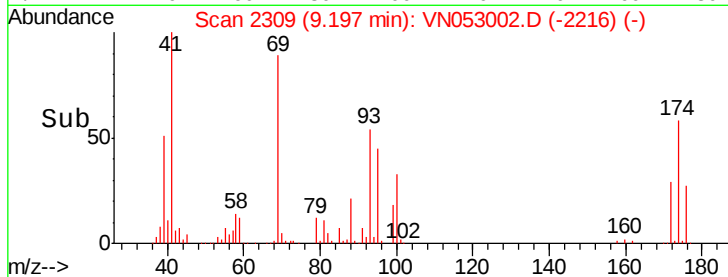
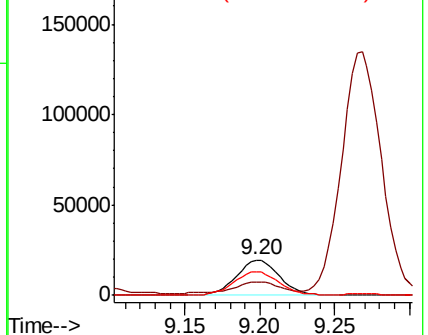
88 100

43 33.0 26.6 40.0

58 71.2 58.4 87.6



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 365.878 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053002.D

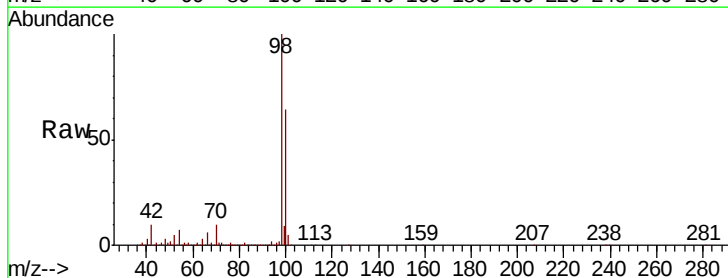
Acq: 19 Dec 2018 11:16

Tgt Ion: 98 Resp: 2024058

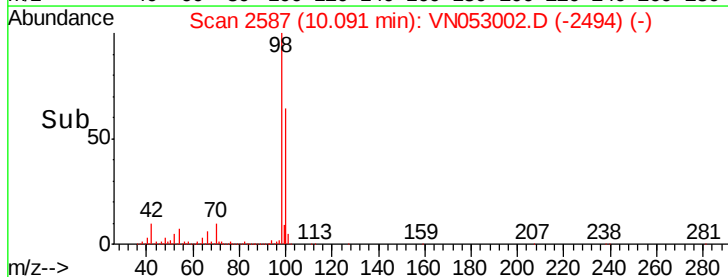
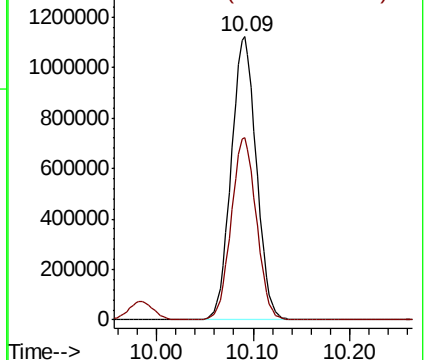
Ion Ratio Lower Upper

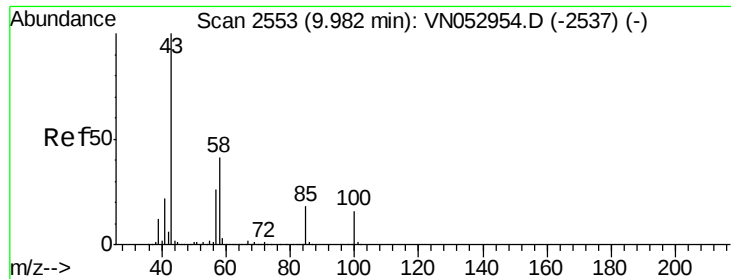
98 100

100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 101.533 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

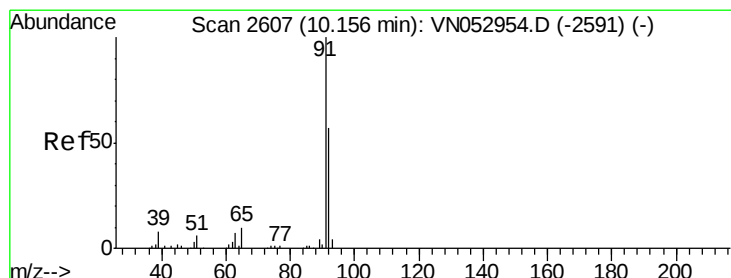
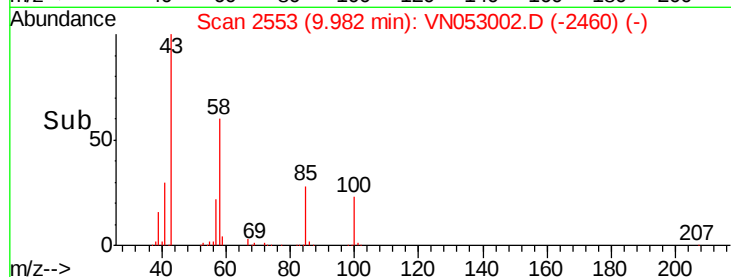
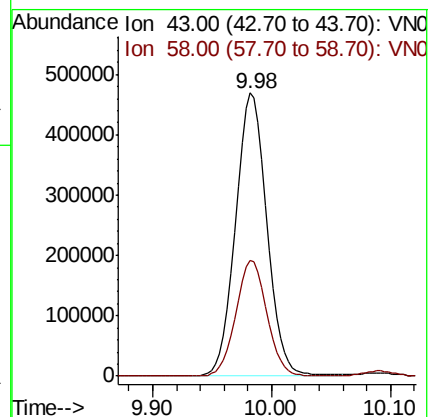
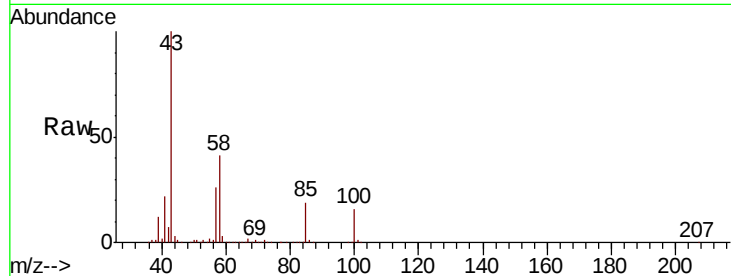
VN1219WBS01

Tot Ion: 43 Resp: 852112

Ion Ratio Lower Upper

43 100

58 40.7 32.2 48.4



#52

Toluene

Concen: 19.837 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053002.D

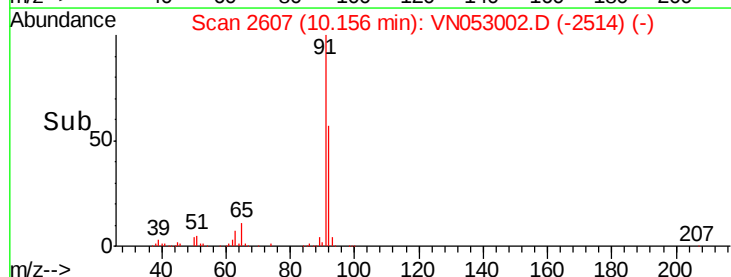
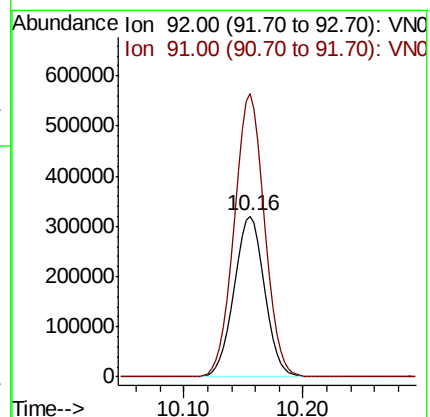
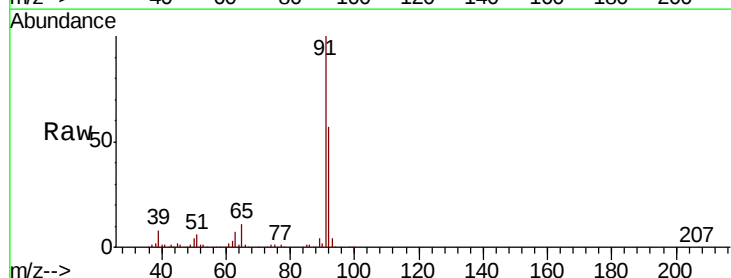
Acq: 19 Dec 2018 11:16

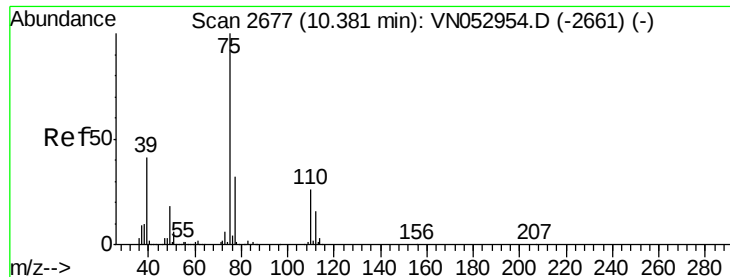
Tgt Ion: 92 Resp: 567735

Ion Ratio Lower Upper

92 100

91 175.1 139.8 209.6





#53

t-1,3-Dichloropropene

Concen: 18.973 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

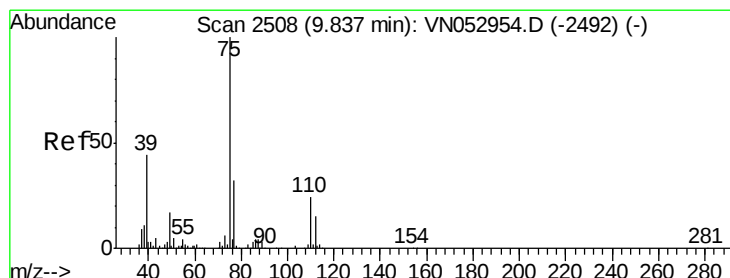
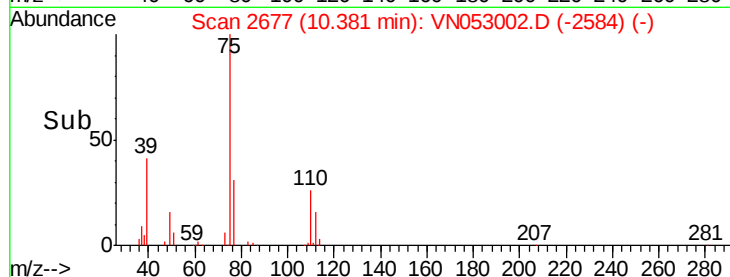
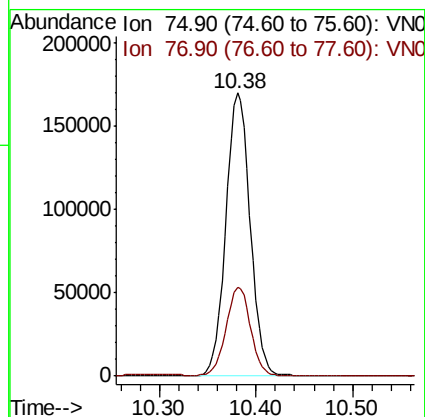
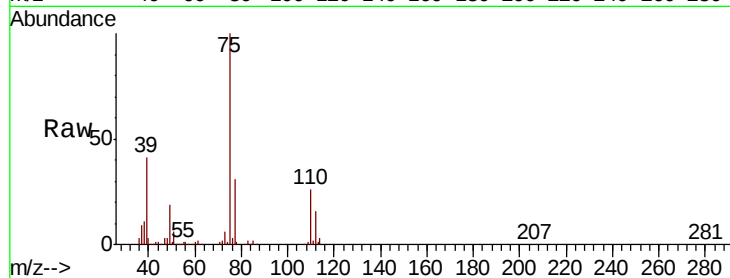
VN1219WBS01

Tot Ion: 75 Resp: 297128

Ion Ratio Lower Upper

75 100

77 31.3 25.6 38.4



#54

cis-1,3-Dichloropropene

Concen: 19.512 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

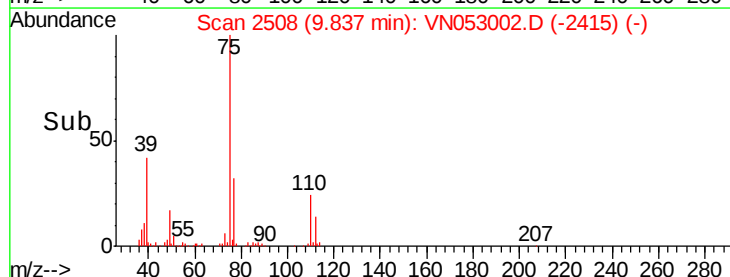
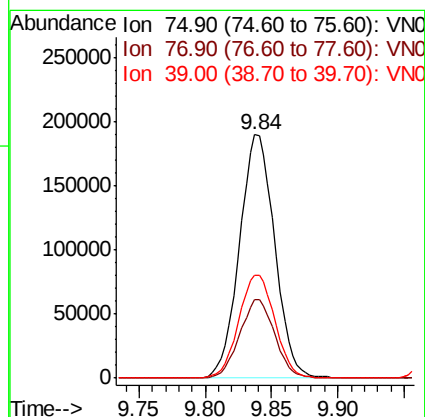
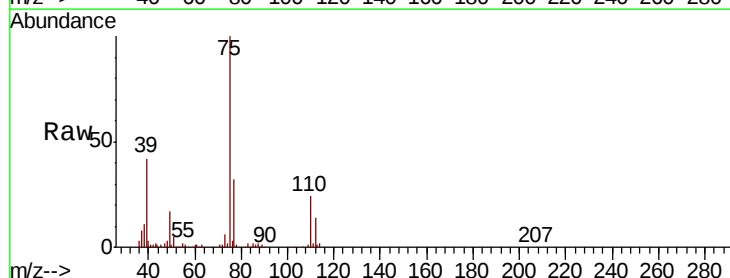
Tgt Ion: 75 Resp: 350747

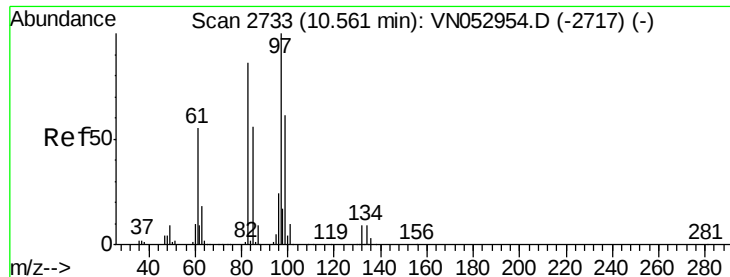
Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.8

39 42.5 34.8 52.2

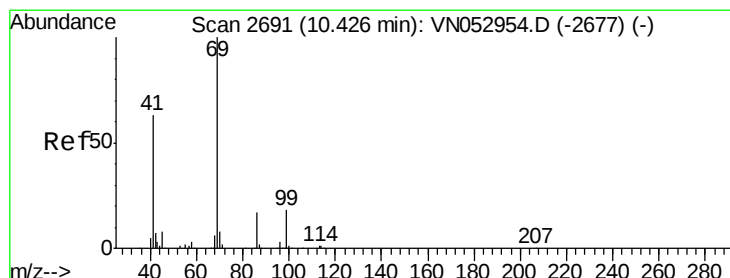
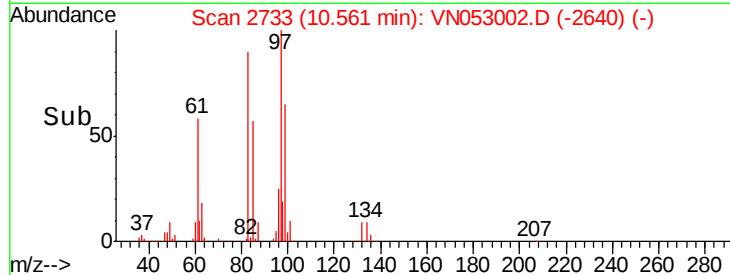
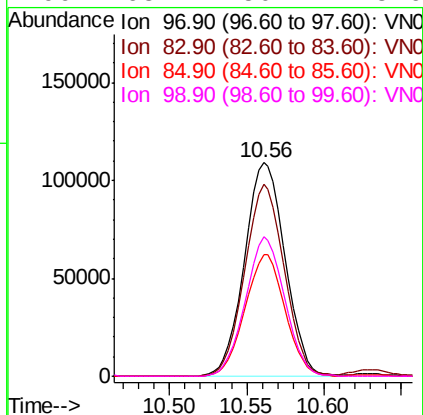
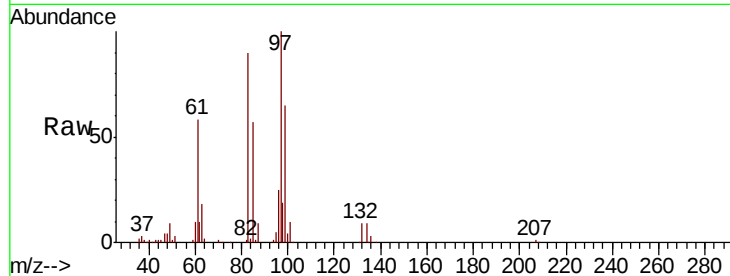




#55
 1,1,2-Trichloroethane
 Concen: 19.980 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

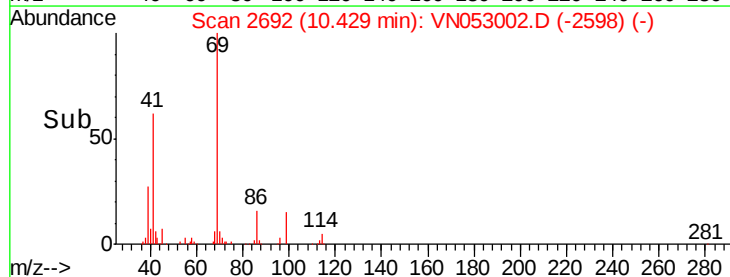
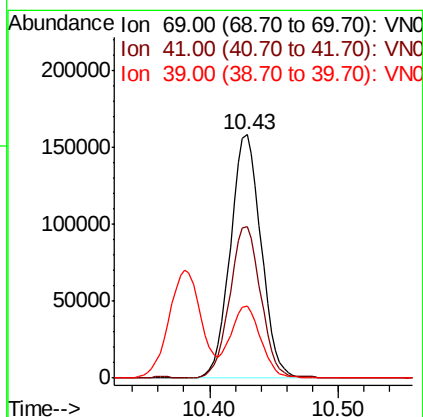
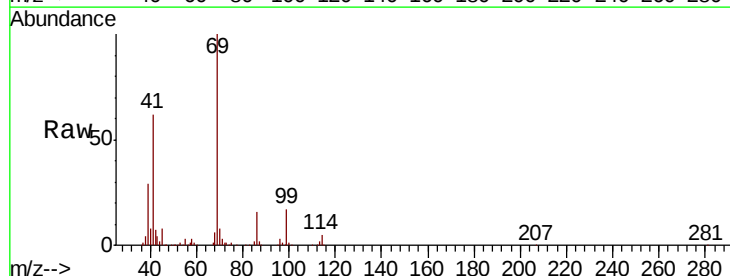
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.0	70.9	106.3
85	57.0	45.4	68.2
99	65.4	50.4	75.6



#56
 Ethyl methacrylate
 Concen: 19.923 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.9	51.7	77.5
39	29.2	24.6	37.0





#57

1,3-Dichloropropane

Concen: 20.043 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

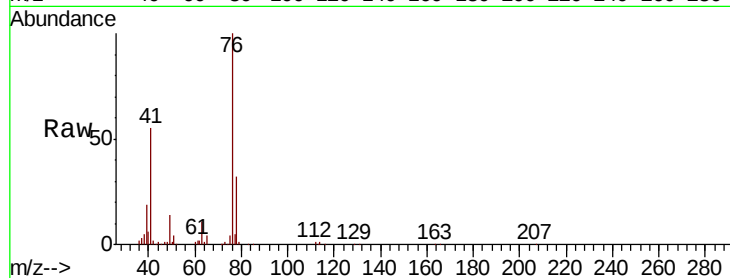
VN1219WBS01

Tot Ion: 76 Resp: 343184

Ion Ratio Lower Upper

76 100

78 31.8 25.8 38.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

200000

150000

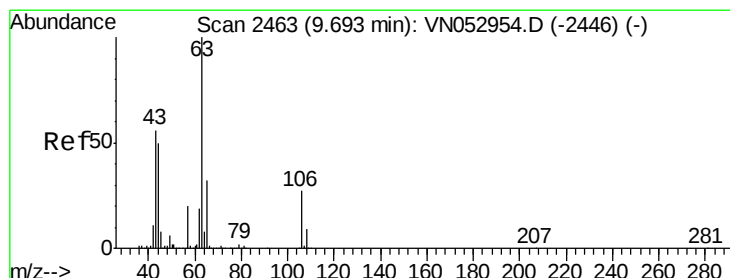
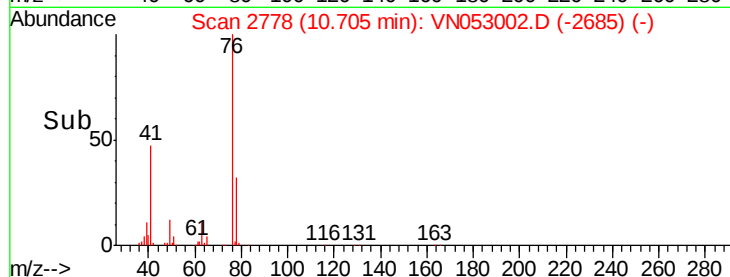
100000

50000

0

10.65 10.70 10.75

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 96.995 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN053002.D

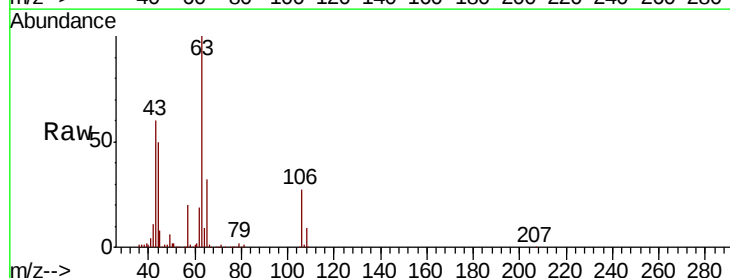
Acq: 19 Dec 2018 11:16

Tgt Ion: 63 Resp: 703746

Ion Ratio Lower Upper

63 100

106 27.1 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

400000

300000

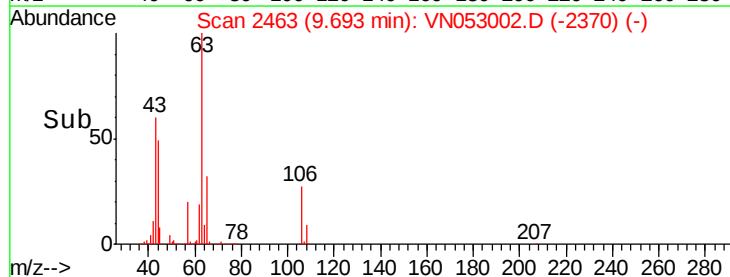
200000

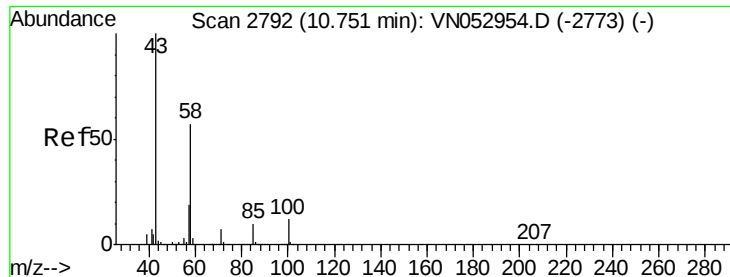
100000

0

9.60 9.70 9.80

Time-->

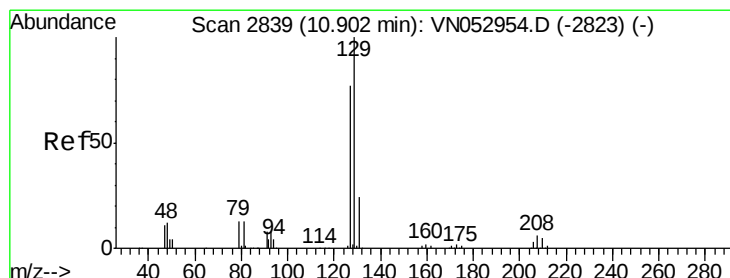
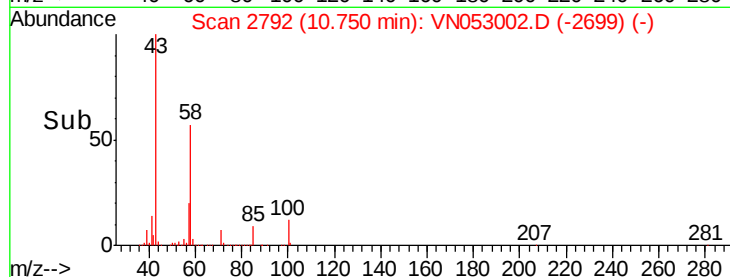
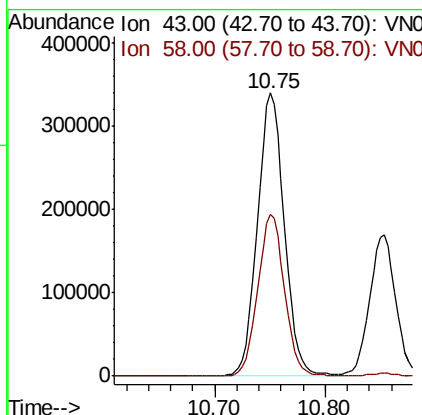
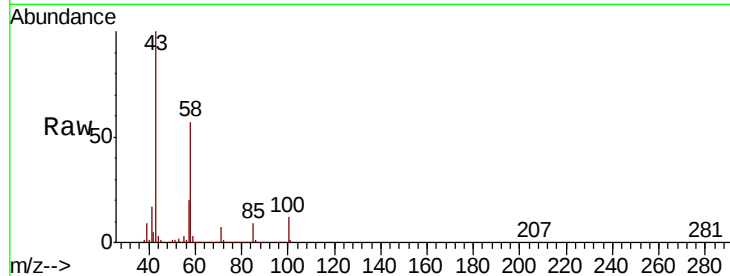




#59
2-Hexanone
Concen: 100.931 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

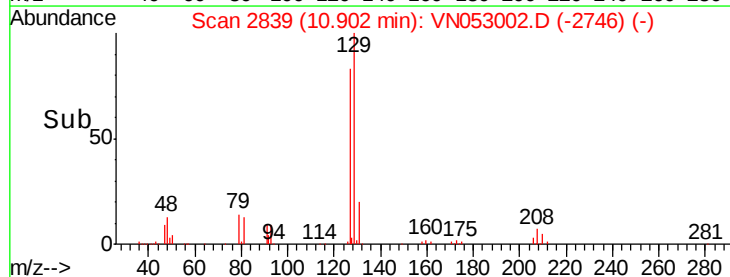
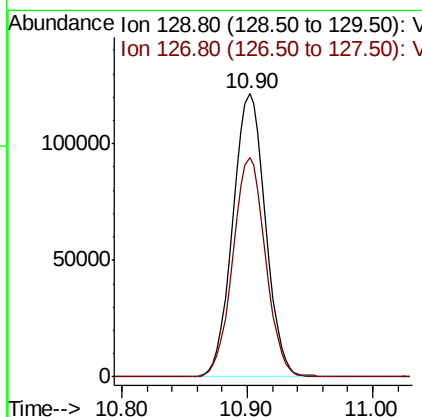
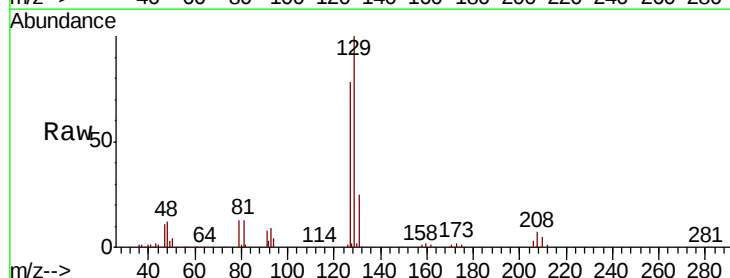
Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion: 43 Resp: 573101
Ion Ratio Lower Upper
43 100
58 57.0 28.1 84.3



#60
Dibromochloromethane
Concen: 19.252 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 129 Resp: 220040
Ion Ratio Lower Upper
129 100
127 77.2 38.6 116.0





#61

1,2-Dibromoethane

Concen: 19.710 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

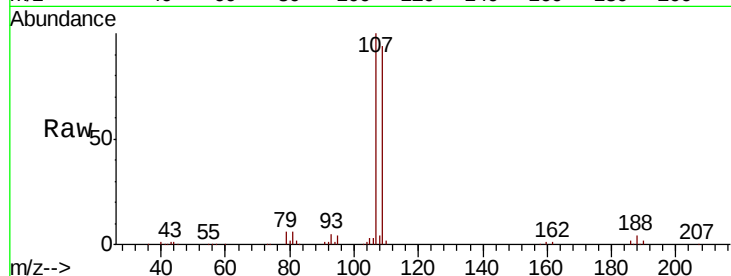
VN1219WBS01

Tot Ion:107 Resp: 199868

Ion Ratio Lower Upper

107 100

109 94.1 75.4 113.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

120000

100000

80000

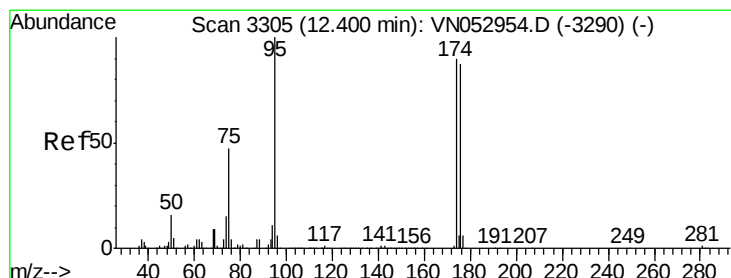
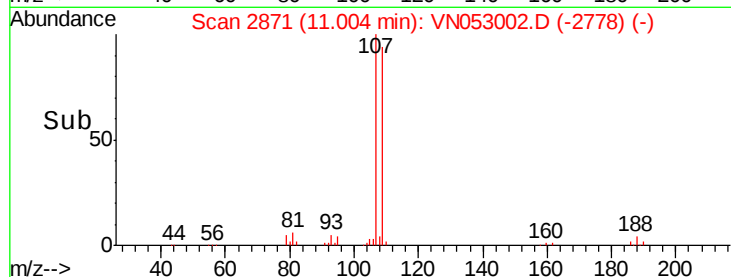
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 19.710 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

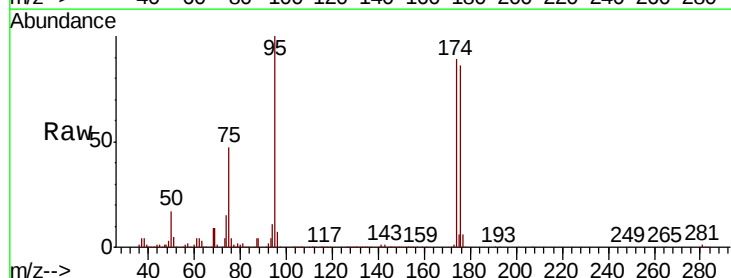
Tgt Ion: 95 Resp: 688659

Ion Ratio Lower Upper

95 100

174 89.6 0.0 178.8

176 86.8 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

500000

400000

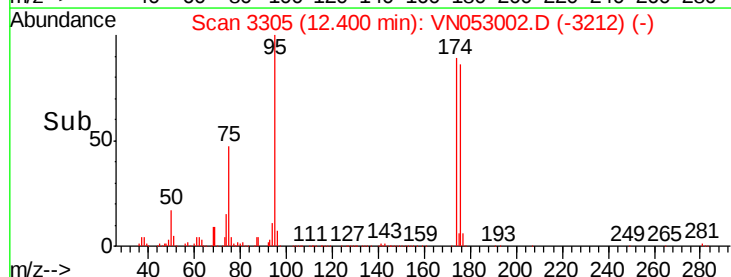
300000

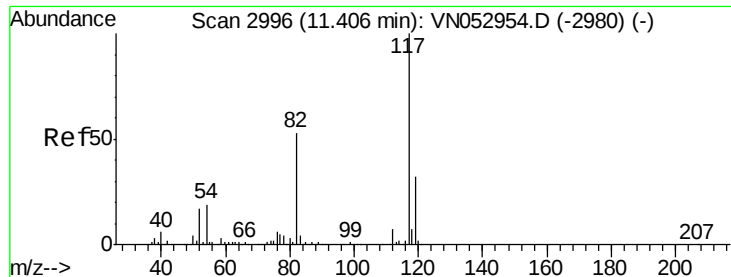
200000

100000

0

Time-->

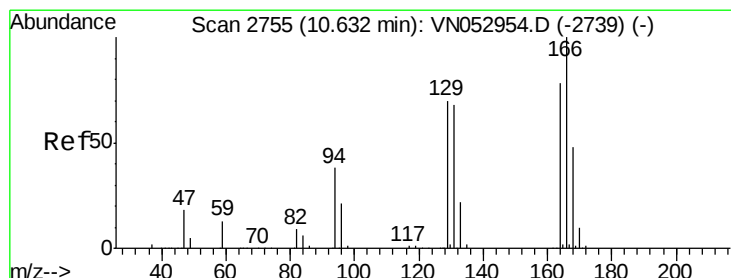
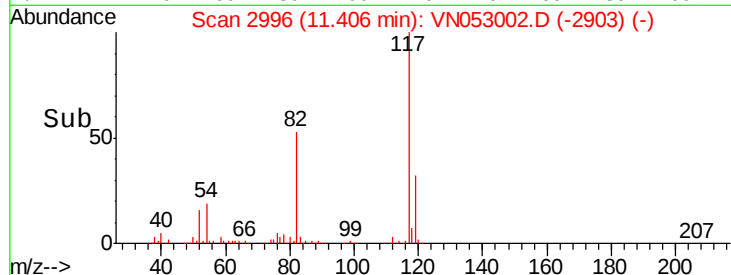
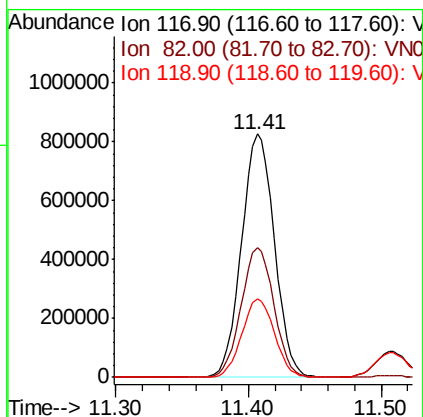
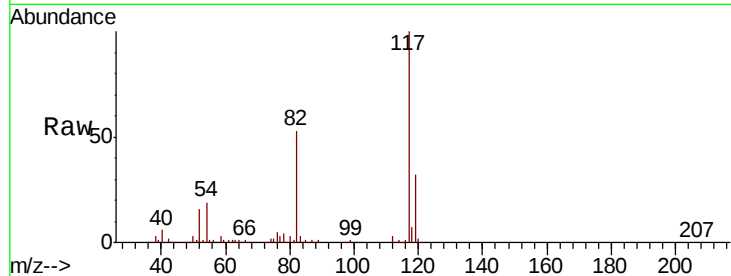




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

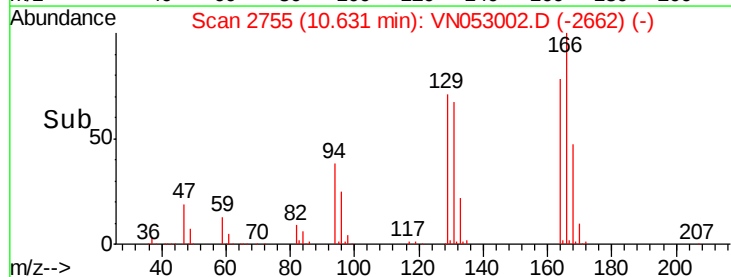
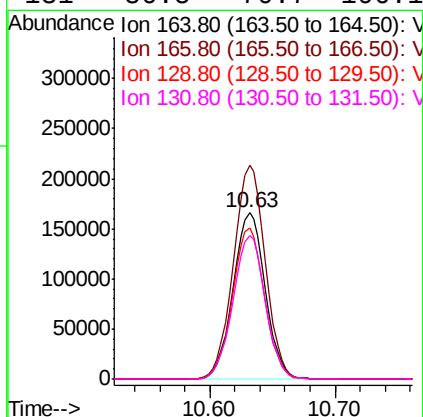
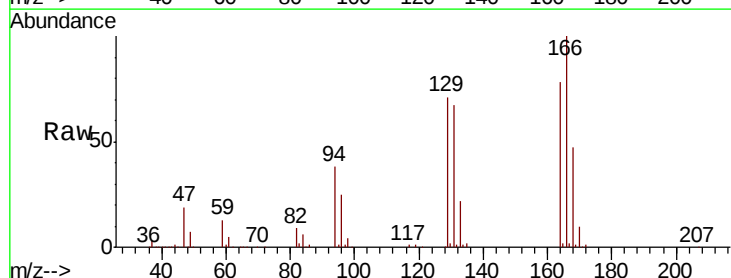
Instrument :
MSVOA_N
ClientSampled :
VN1219WBS01

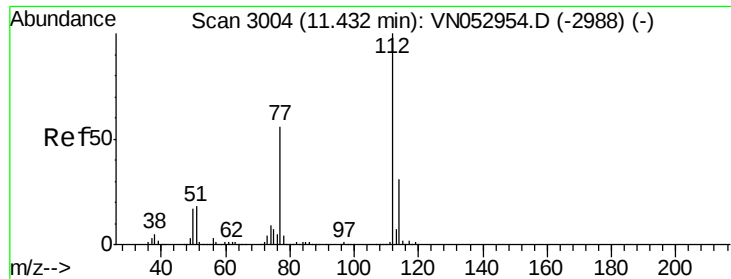
Tot Ion:117 Resp: 1421894
Ion Ratio Lower Upper
117 100
82 53.3 42.8 64.2
119 32.1 25.5 38.3



#64
Tetrachloroethene
Concen: 19.106 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion:164 Resp: 294274
Ion Ratio Lower Upper
164 100
166 128.6 102.9 154.3
129 90.7 73.7 110.5
131 86.5 70.7 106.1





#65

Chlorobenzene

Concen: 19.614 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

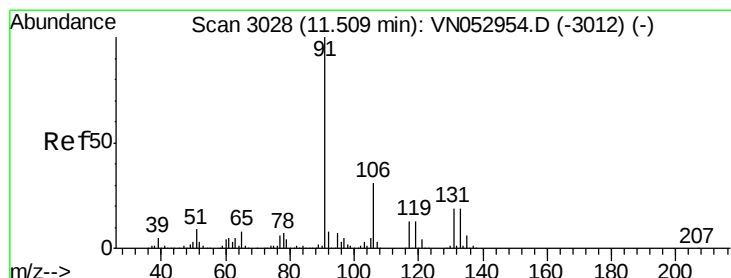
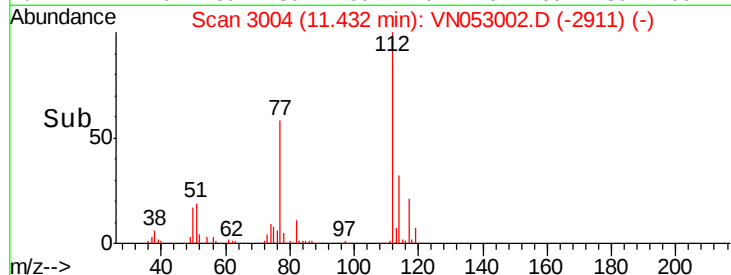
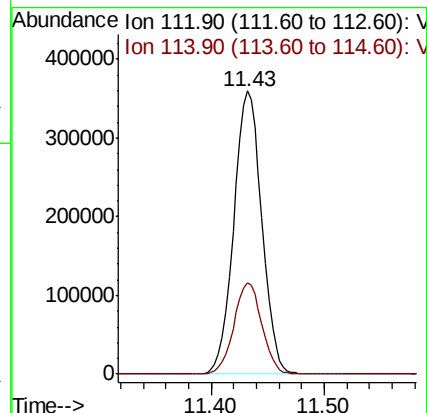
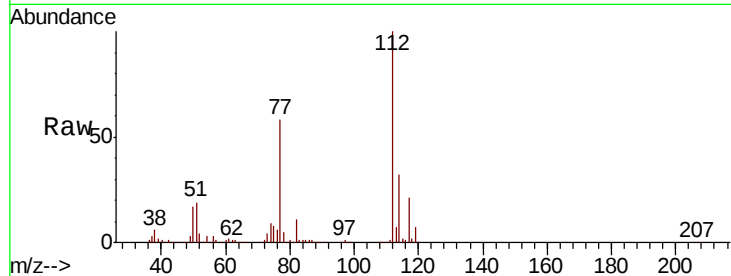
VN1219WBS01

Tot Ion:112 Resp: 618221

Ion Ratio Lower Upper

112 100

114 32.1 25.5 38.3



#66

1,1,1,2-Tetrachloroethane

Concen: 19.719 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

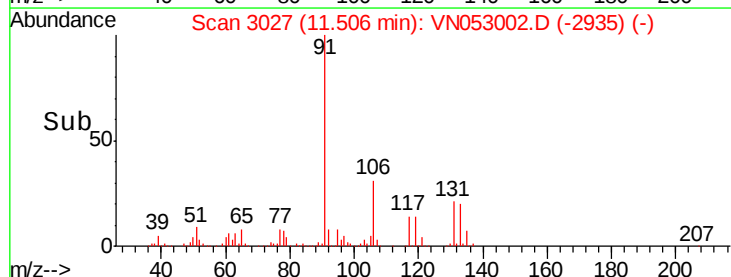
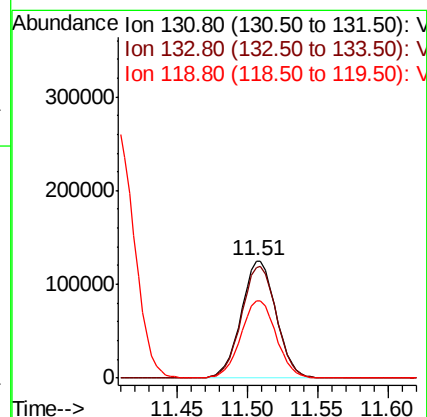
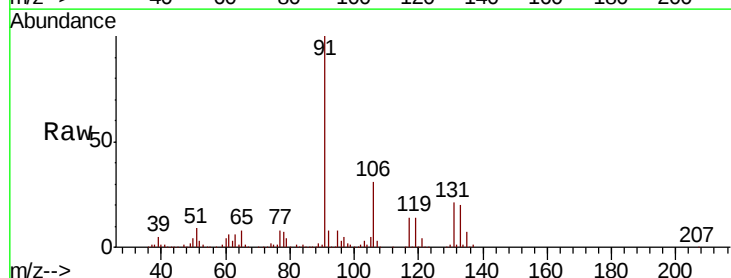
Tgt Ion:131 Resp: 216138

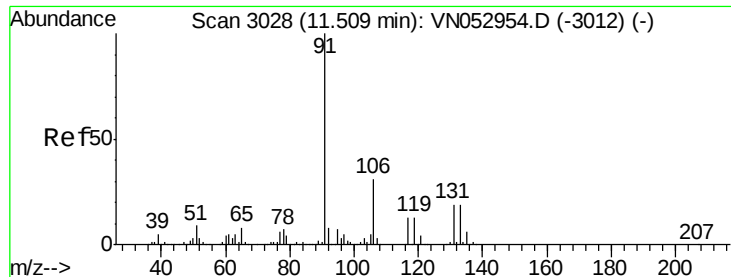
Ion Ratio Lower Upper

131 100

133 96.3 47.6 142.9

119 67.1 33.3 99.8





#67

Ethyl Benzene

Concen: 19.765 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

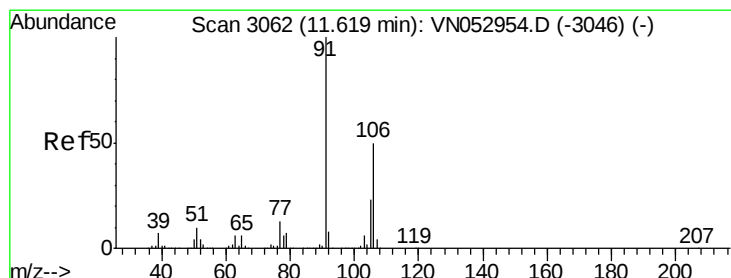
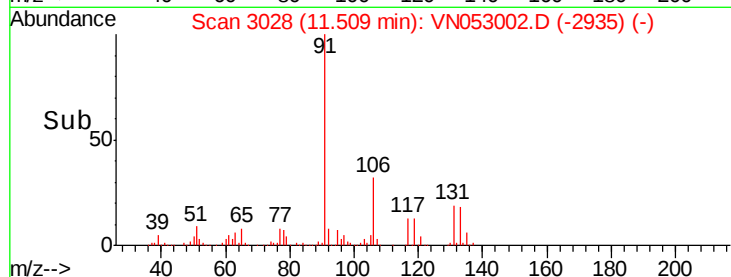
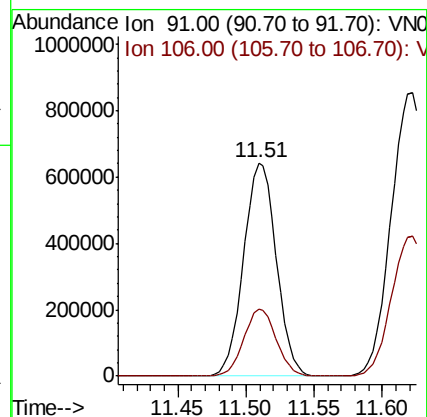
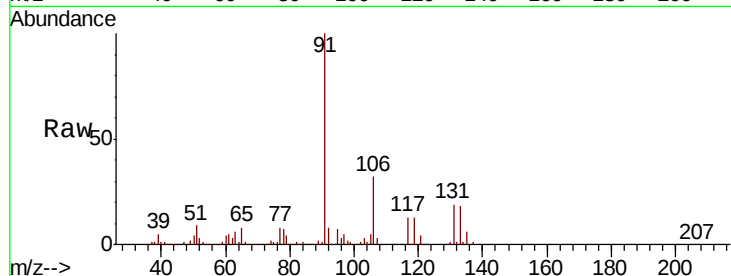
VN1219WBS01

Tot Ion: 91 Resp: 1071363

Ion Ratio Lower Upper

91 100

106 31.5 24.9 37.3



#68

m/p-Xylenes

Concen: 39.458 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053002.D

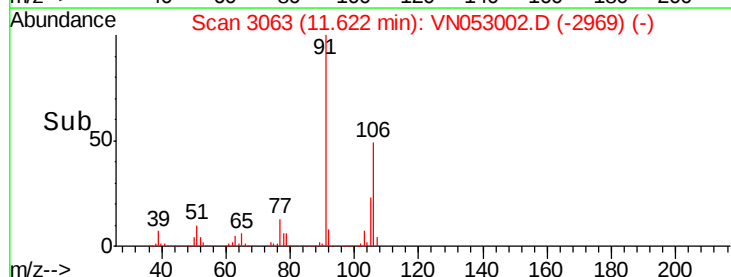
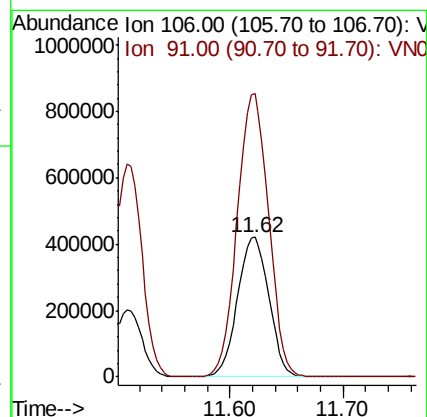
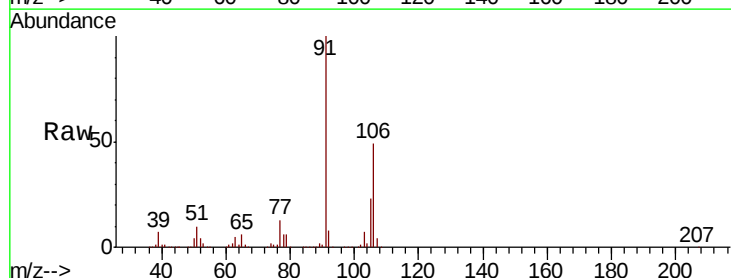
Acq: 19 Dec 2018 11:16

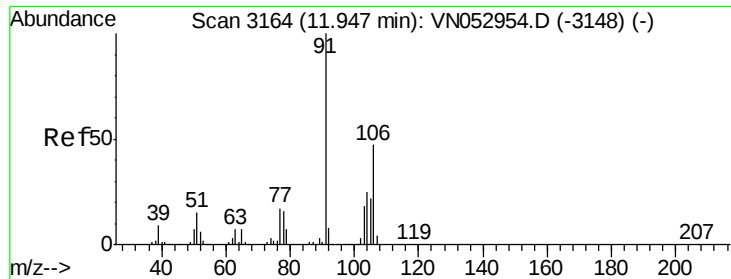
Tgt Ion: 106 Resp: 813091

Ion Ratio Lower Upper

106 100

91 202.0 162.2 243.4

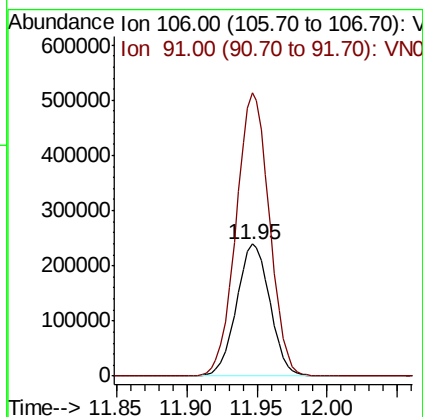
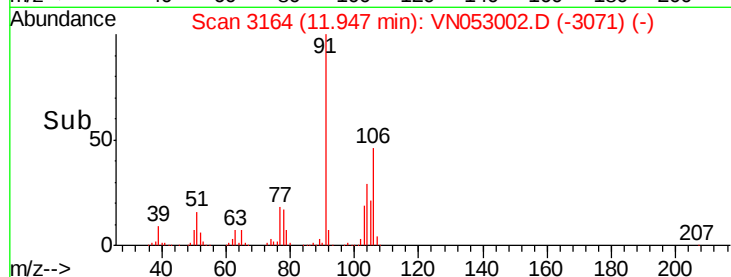
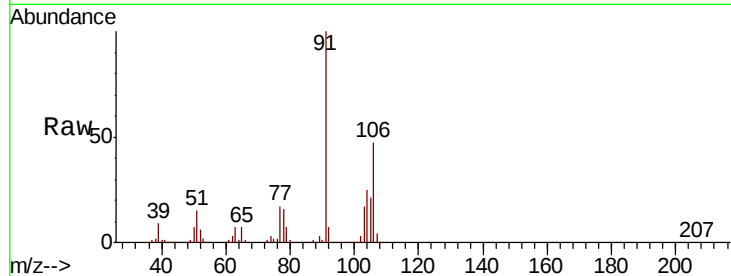




#69
o-Xylene
Concen: 20.096 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

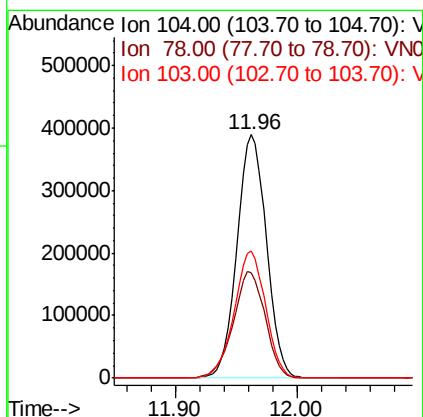
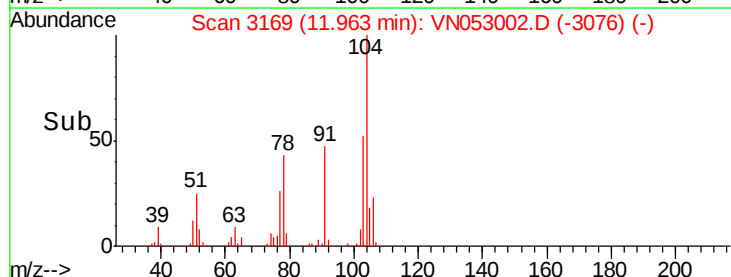
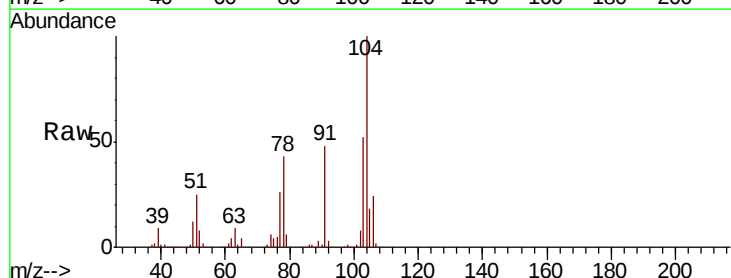
Instrument :
MSVOA_N
ClientSampled :
VN1219WBS01

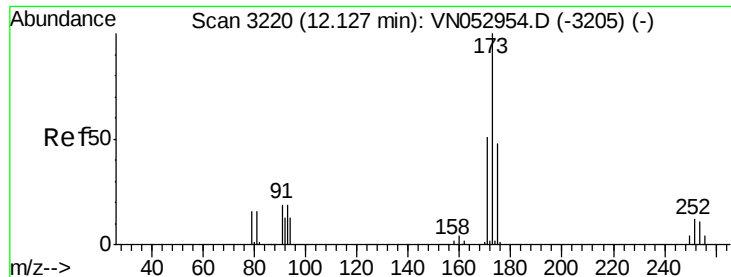
Tot Ion:106 Resp: 397363
Ion Ratio Lower Upper
106 100
91 213.7 106.6 319.8



#70
Styrene
Concen: 20.127 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion:104 Resp: 648957
Ion Ratio Lower Upper
104 100
78 47.7 38.9 58.3
103 55.7 44.3 66.5





#71

Bromoform

Concen: 18.795 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampled :

VN1219WBS01

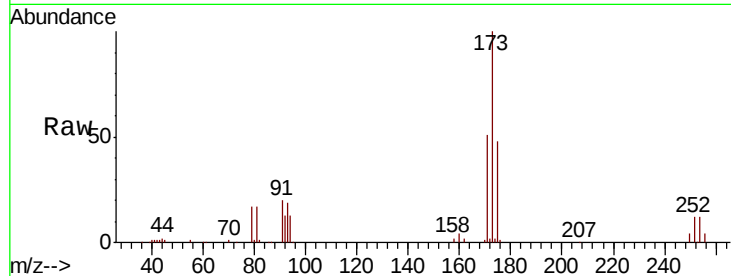
Tot Ion:173 Resp: 148820

Ion Ratio Lower Upper

173 100

175 48.0 24.3 72.9

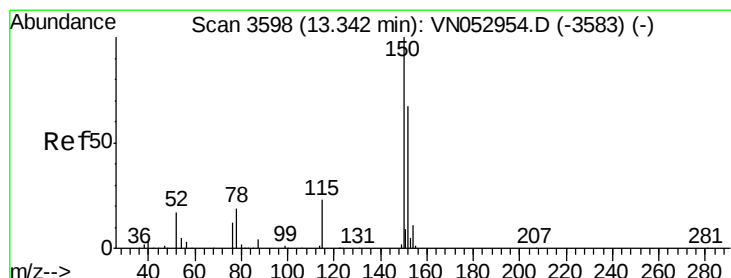
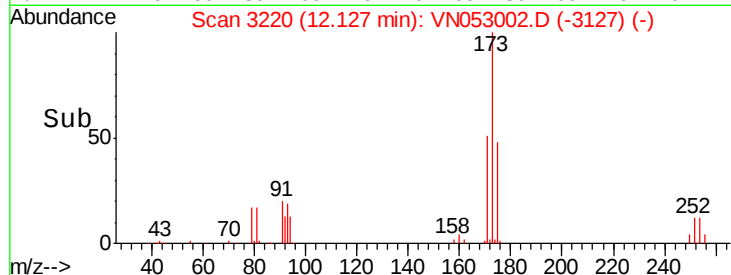
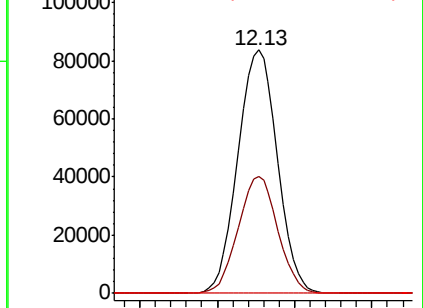
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

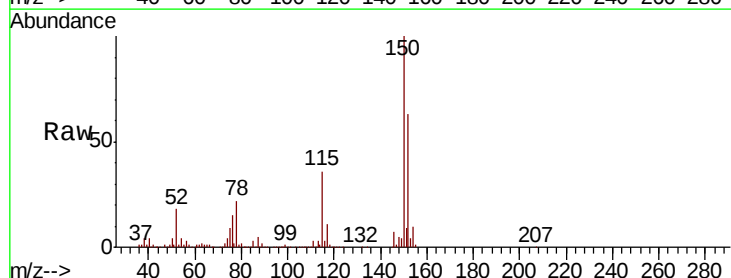
Tgt Ion:152 Resp: 662060

Ion Ratio Lower Upper

152 100

115 55.9 28.3 85.0

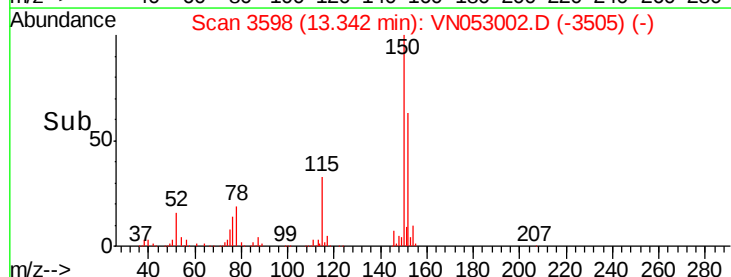
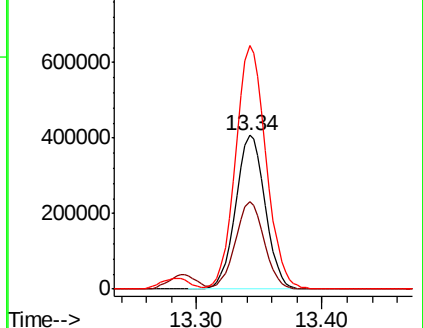
150 164.2 0.0 347.8



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





#73

Isopropylbenzene

Concen: 20.231 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

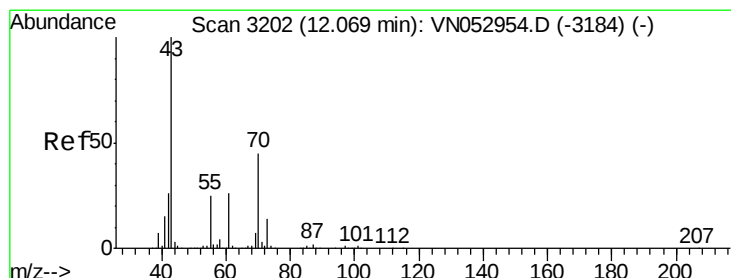
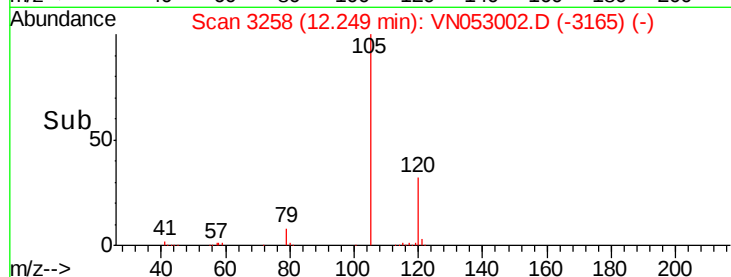
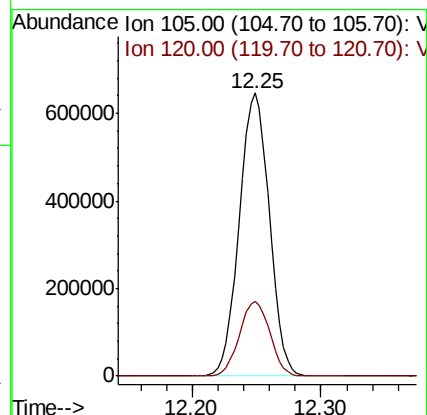
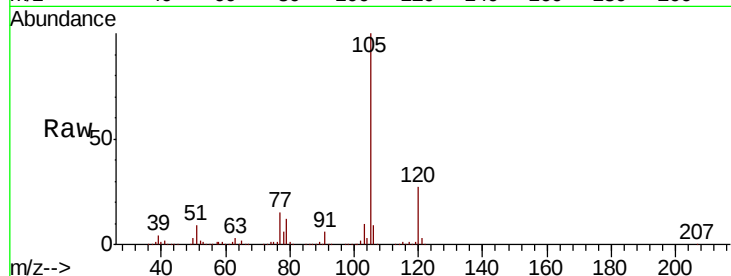
VN1219WBS01

Tot Ion:105 Resp: 1048000

Ion Ratio Lower Upper

105 100

120 26.7 13.3 39.9



#74

N-ethyl acetate

Concen: 20.684 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Tgt Ion: 43 Resp: 297471

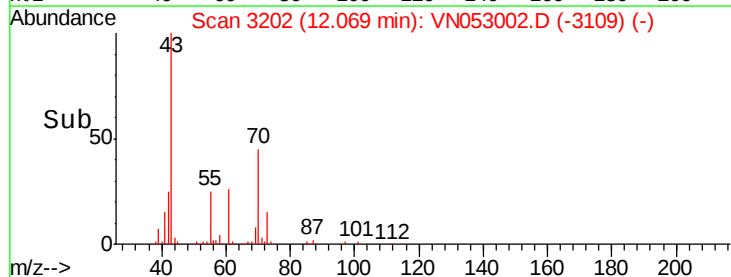
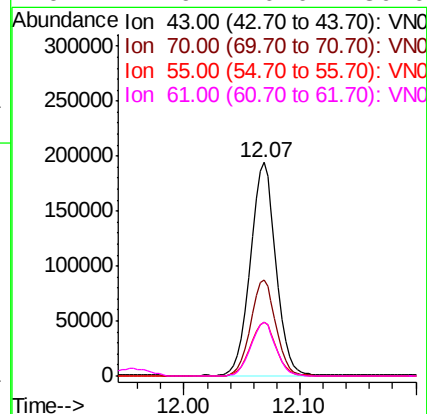
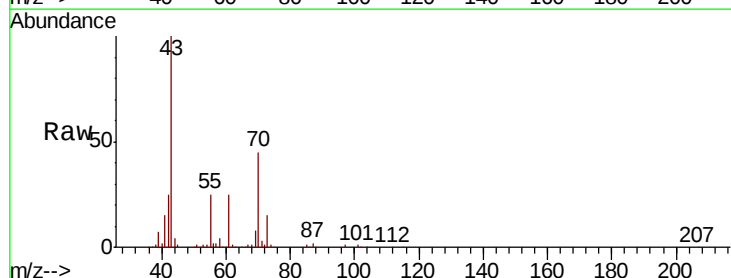
Ion Ratio Lower Upper

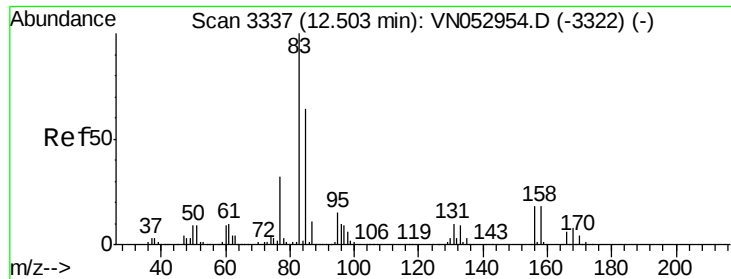
43 100

70 44.7 34.2 51.4

55 25.4 20.3 30.5

61 24.9 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.075 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

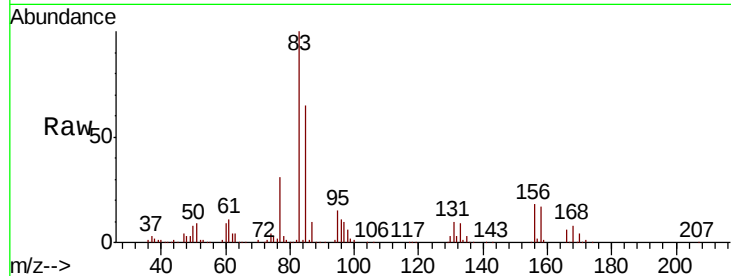
Tot Ion: 83 Resp: 214178

Ion Ratio Lower Upper

83 100

131 10.2 5.2 15.6

85 64.5 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VN053002.D (-3244) (-)

Ion 130.80 (130.50 to 131.50): VN053002.D (-3244) (-)

Ion 84.90 (84.60 to 85.60): VN053002.D (-3244) (-)

12.50

150000

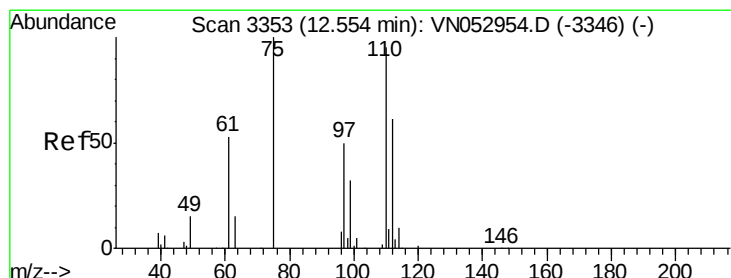
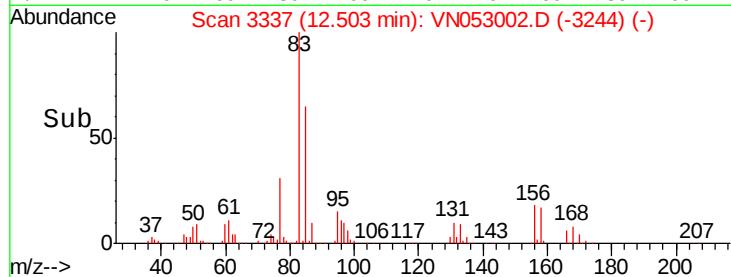
100000

50000

0

12.45 12.50 12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 26.458 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN053002.D

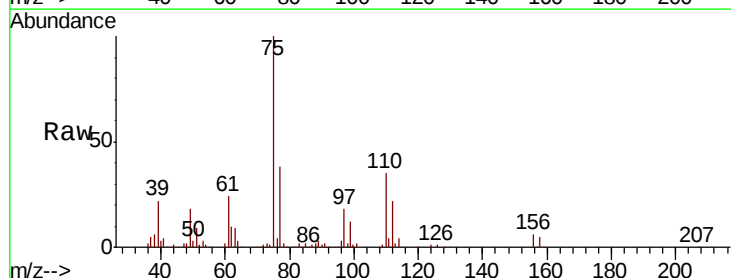
Acq: 19 Dec 2018 11:16

Tgt Ion: 75 Resp: 294872

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053002.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN053002.D (-3260) (-)

250000

200000

150000

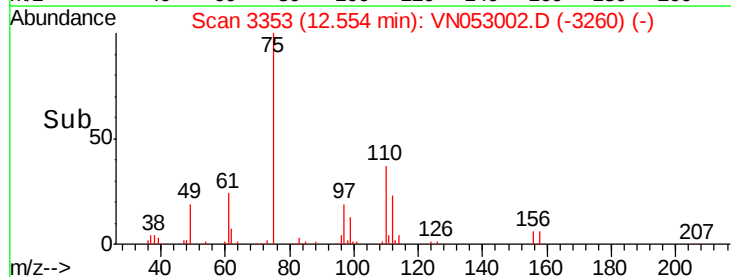
100000

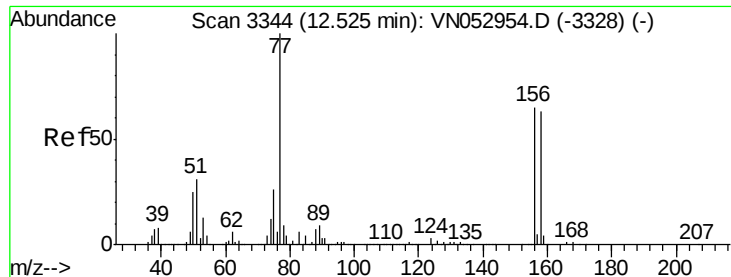
50000

0

12.50 12.55 12.60

Time-->





#77

Bromobenzene

Concen: 20.027 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

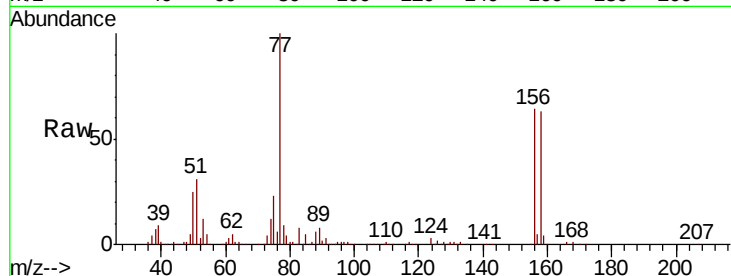
Tot Ion:156 Resp: 269660

Ion Ratio Lower Upper

156 100

77 175.8 91.3 273.8

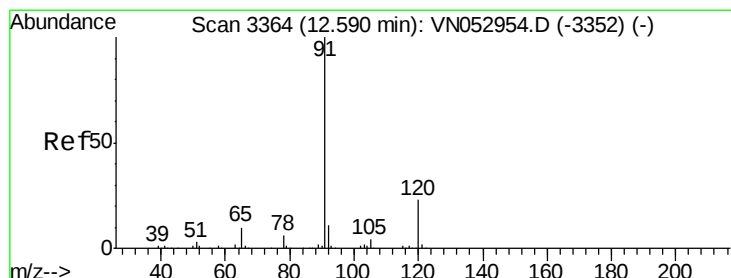
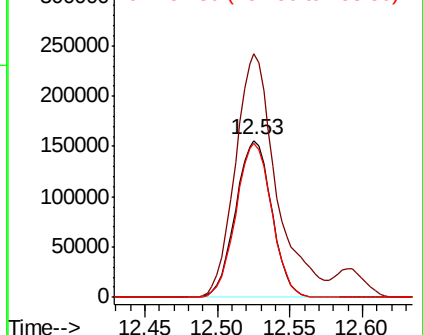
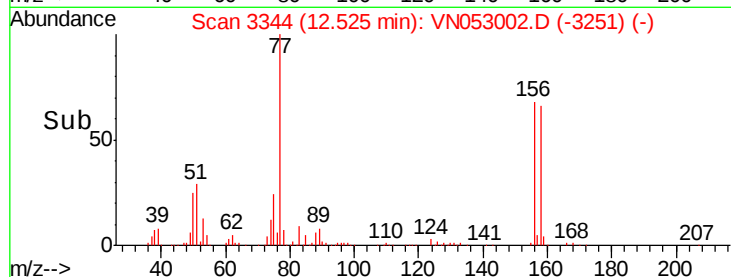
158 97.3 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.884 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN053002.D

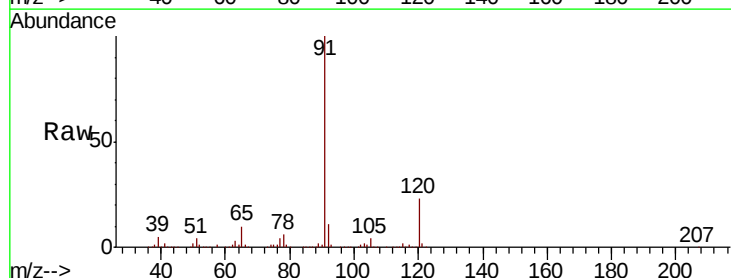
Acq: 19 Dec 2018 11:16

Tgt Ion: 91 Resp: 1173085

Ion Ratio Lower Upper

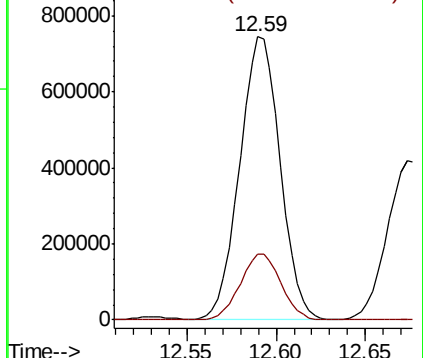
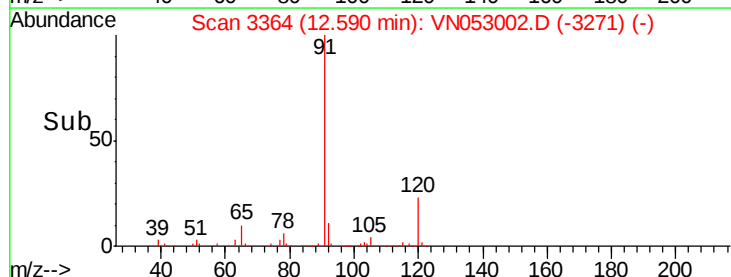
91 100

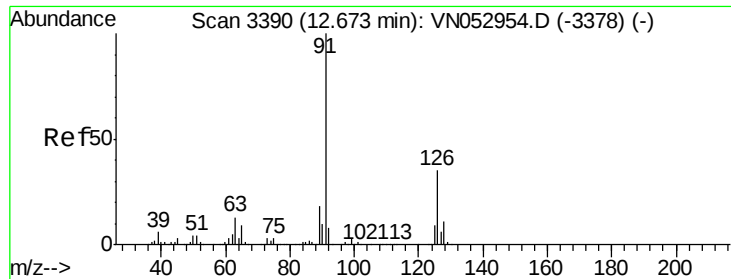
120 23.4 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.228 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

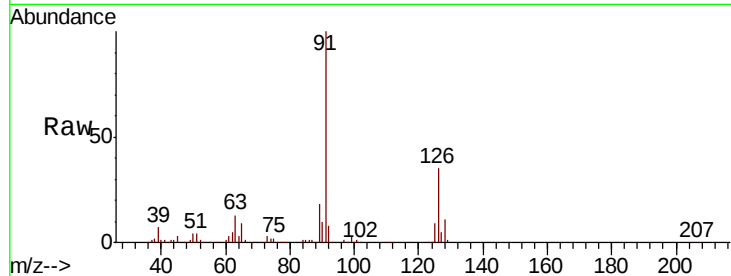
VN1219WBS01

Tot Ion: 91 Resp: 703139

Ion Ratio Lower Upper

91 100

126 35.0 17.4 52.3



Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052954.D (-3378) (-)

600000

400000

200000

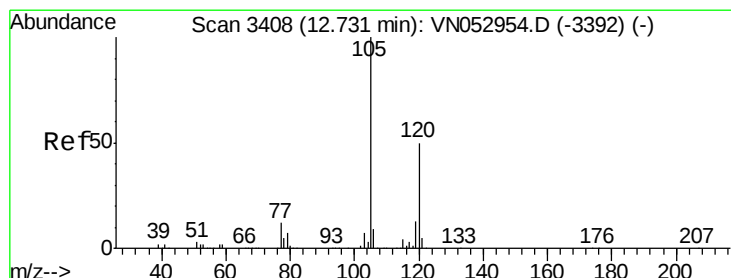
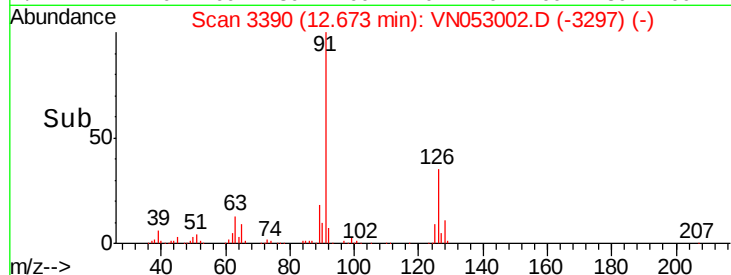
0

12.67

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.824 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053002.D

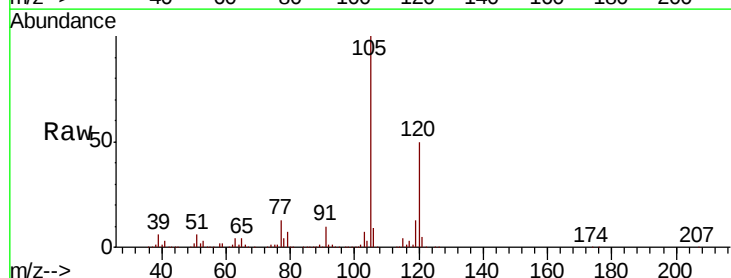
Acq: 19 Dec 2018 11:16

Tgt Ion: 105 Resp: 837003

Ion Ratio Lower Upper

105 100

120 49.4 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3392) (-)

600000

500000

400000

300000

200000

100000

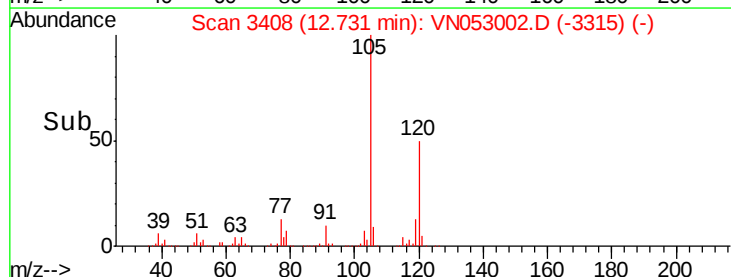
0

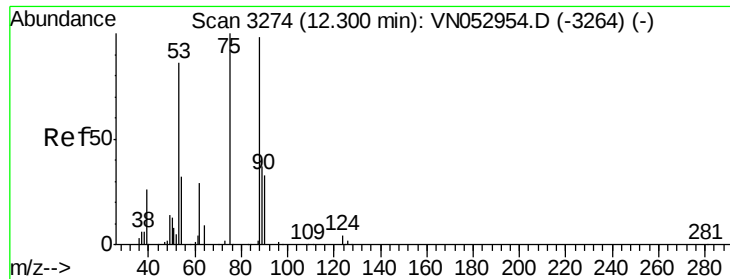
12.73

12.70

12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.511 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampled :

VN1219WBS01

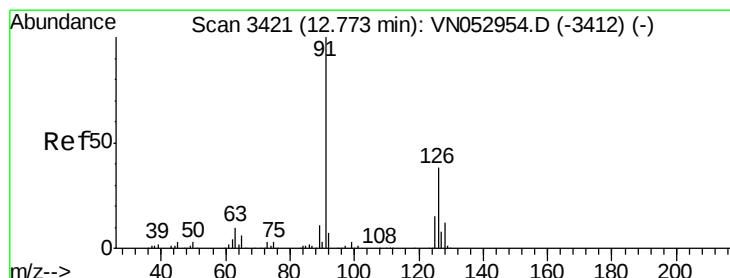
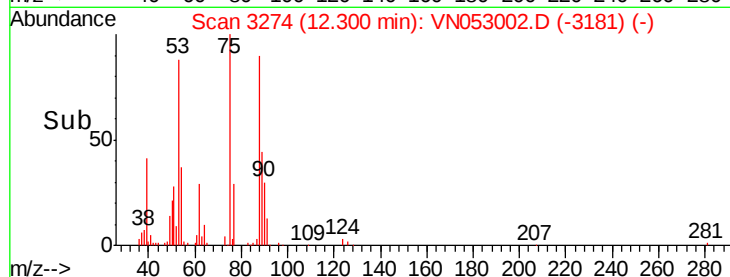
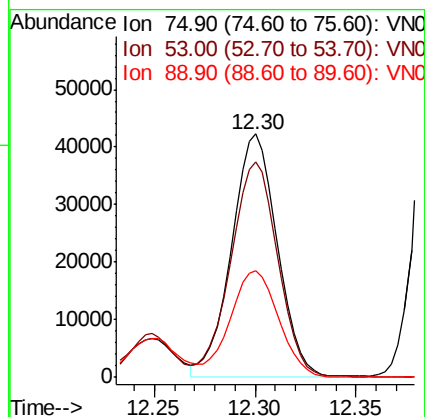
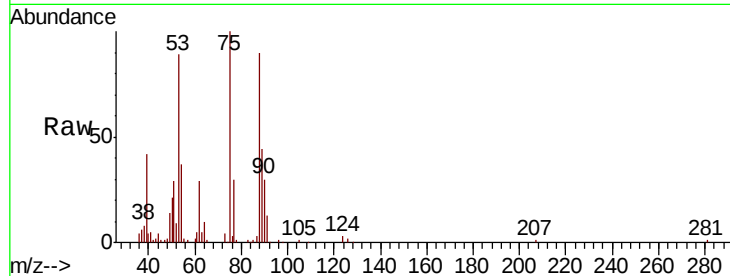
Tot Ion: 75 Resp: 67467

Ion Ratio Lower Upper

75 100

53 90.2 74.7 112.1

89 46.4 36.1 54.1



#82

4-Chlorotoluene

Concen: 19.784 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN053002.D

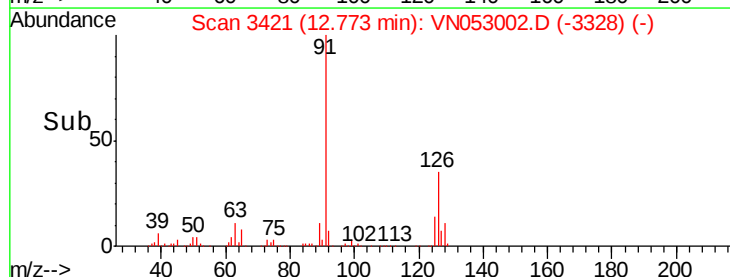
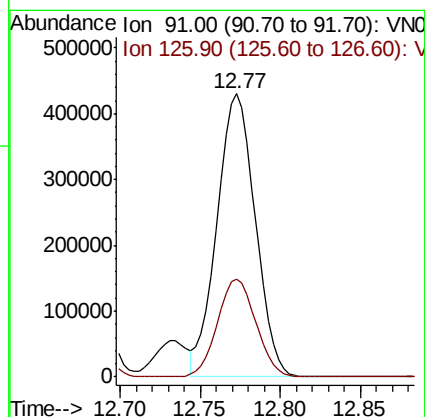
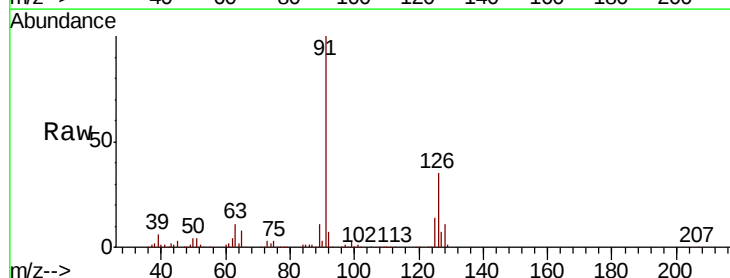
Acq: 19 Dec 2018 11:16

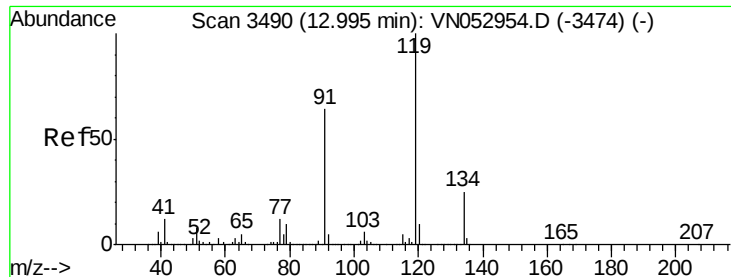
Tgt Ion: 91 Resp: 708213

Ion Ratio Lower Upper

91 100

126 34.8 17.3 51.7

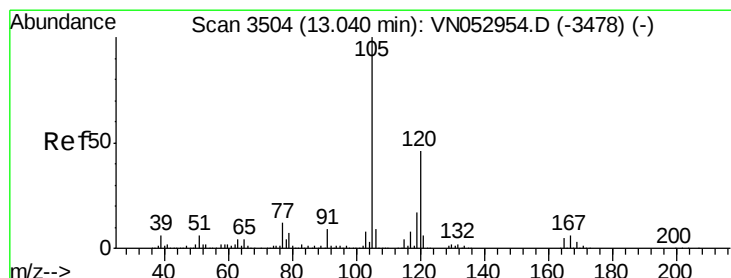
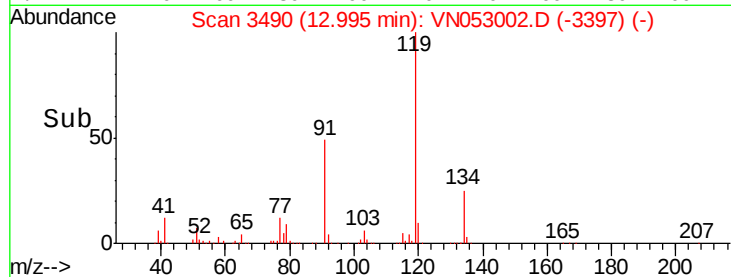
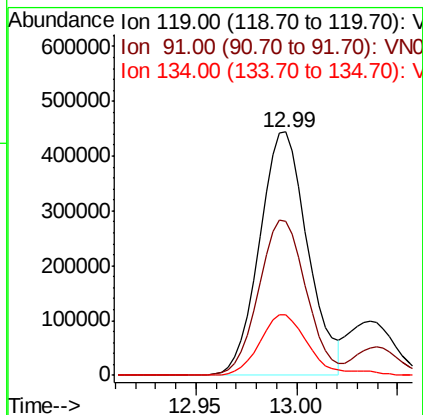
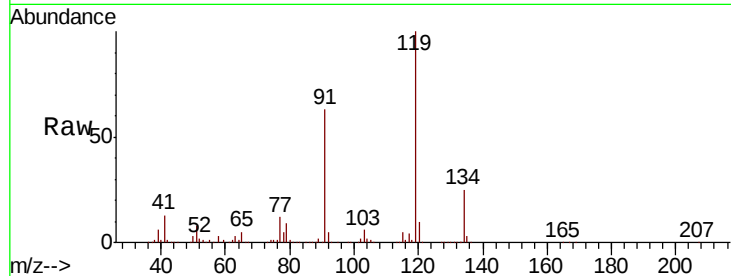




#83
tert-Butylbenzene
Concen: 19.764 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

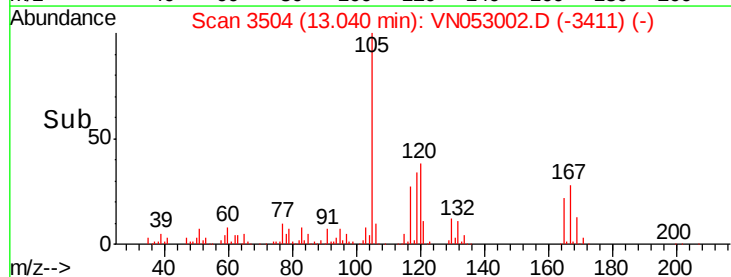
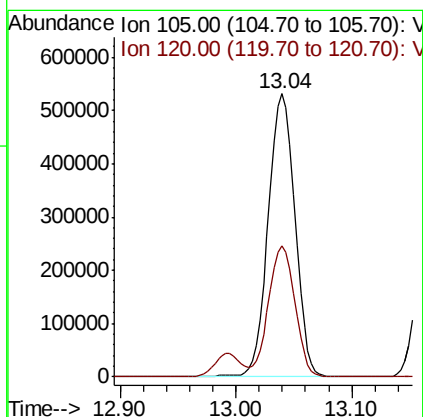
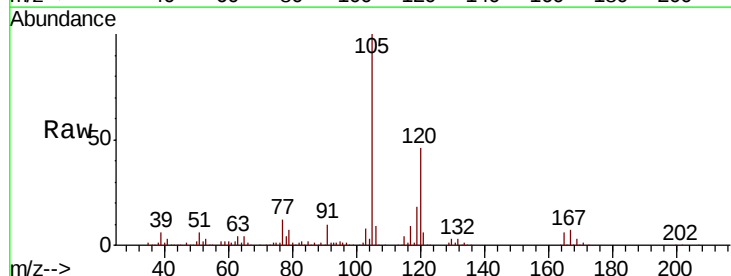
Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

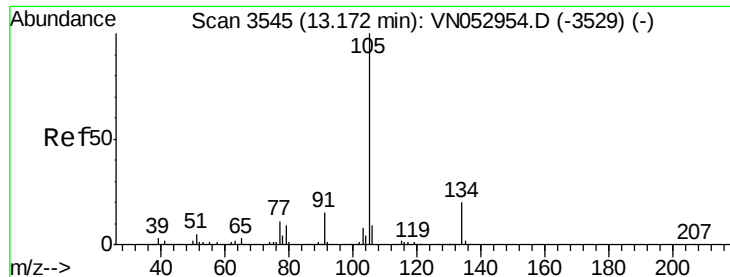
Tot Ion:119 Resp: 738020
Ion Ratio Lower Upper
119 100
91 62.9 31.9 95.5
134 25.8 12.8 38.4



#84
1,2,4-Trimethylbenzene
Concen: 19.994 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion:105 Resp: 848645
Ion Ratio Lower Upper
105 100
120 45.8 22.9 68.8





#85

sec-Butylbenzene

Concen: 19.444 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

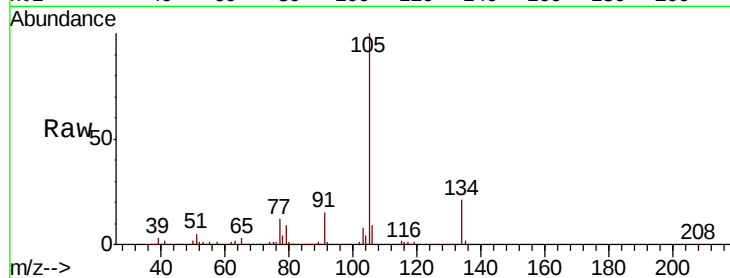
VN1219WBS01

Tot Ion:105 Resp: 982082

Ion Ratio Lower Upper

105 100

134 20.5 10.1 30.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

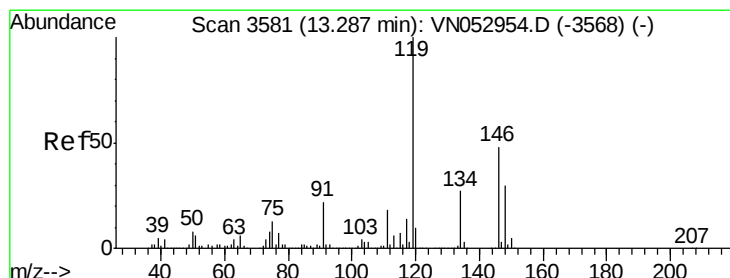
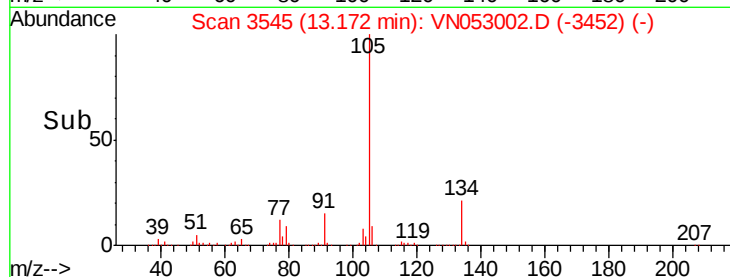
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.442 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

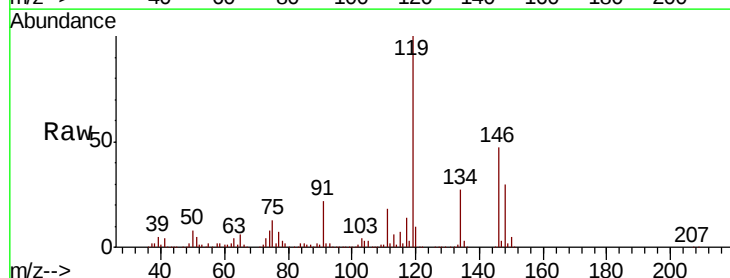
Tgt Ion:119 Resp: 848500

Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

91 21.9 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

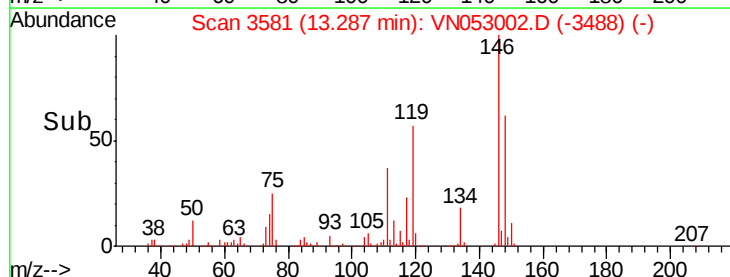
600000

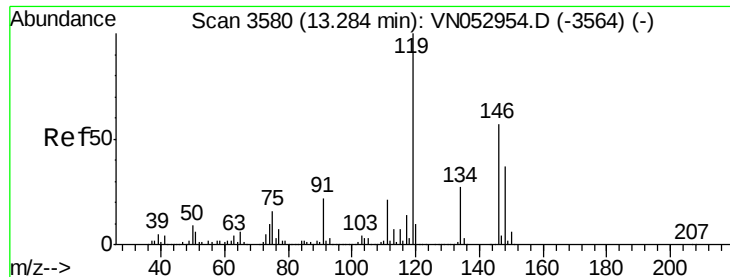
400000

200000

0

Time-->

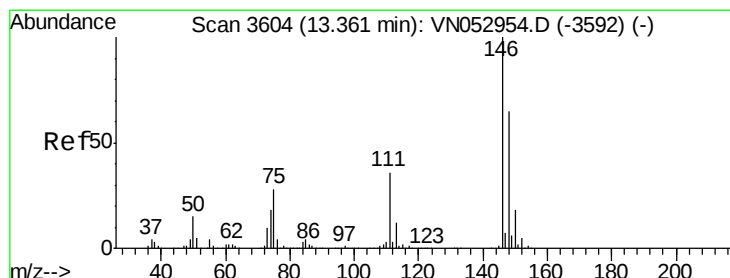
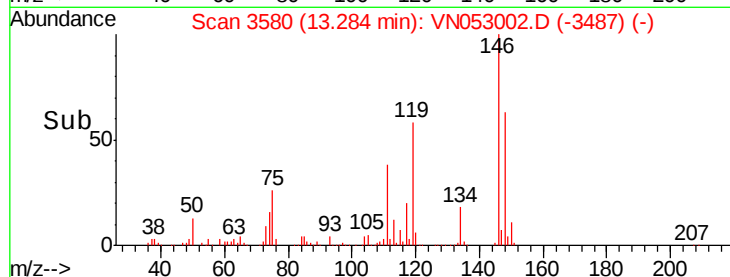
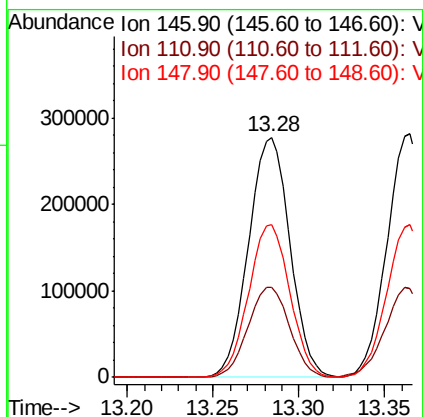
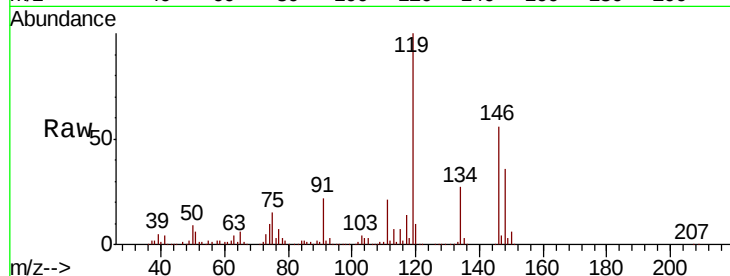




#87
 1,3-Dichlorobenzene
 Concen: 19.437 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

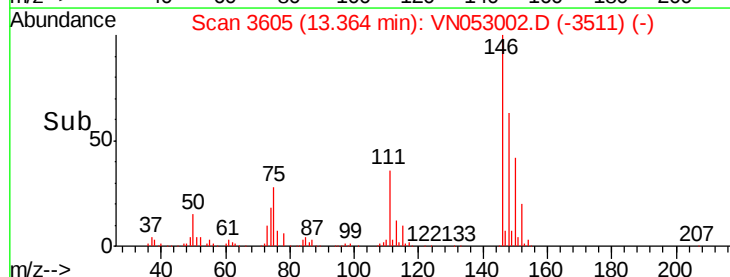
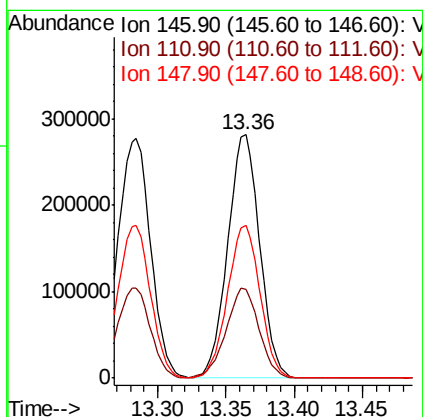
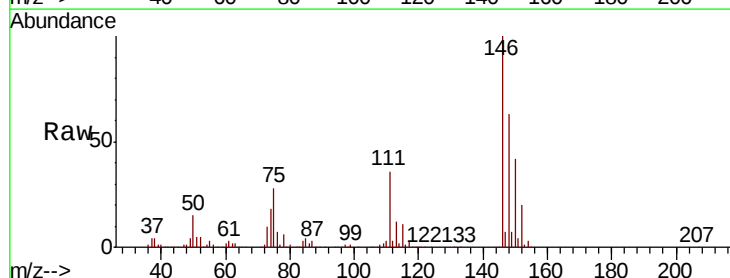
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

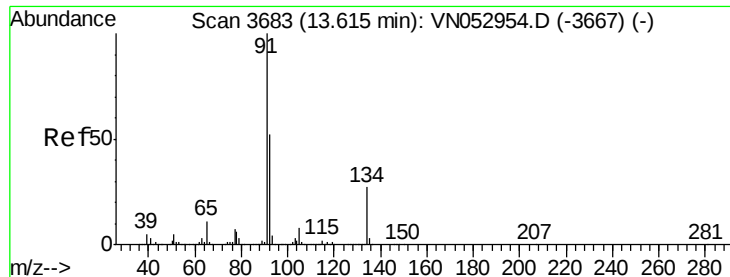
Tot Ion:146 Resp: 463228
 Ion Ratio Lower Upper
 146 100
 111 37.8 19.1 57.1
 148 63.5 32.0 96.0



#88
 1,4-Dichlorobenzene
 Concen: 18.972 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion:146 Resp: 457877
 Ion Ratio Lower Upper
 146 100
 111 38.1 18.6 55.8
 148 63.9 32.1 96.5





#89

n-Butylbenzene

Concen: 18.247 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

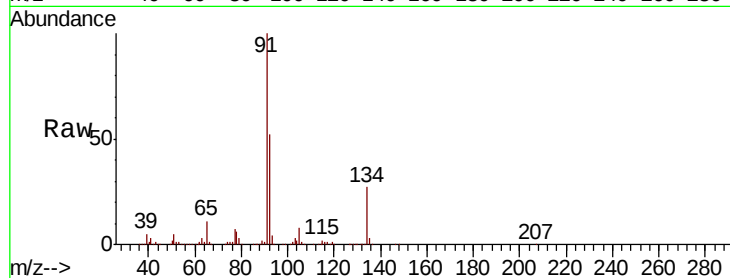
Tot Ion: 91 Resp: 685109

Ion Ratio Lower Upper

91 100

92 52.3 26.3 78.9

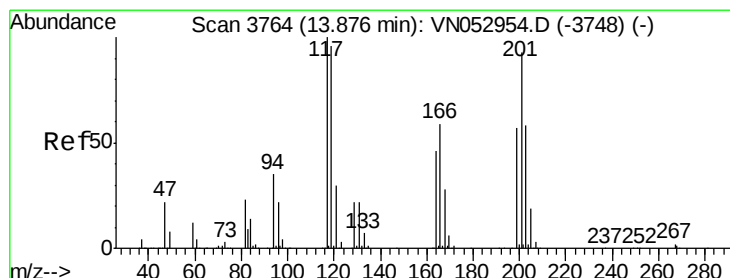
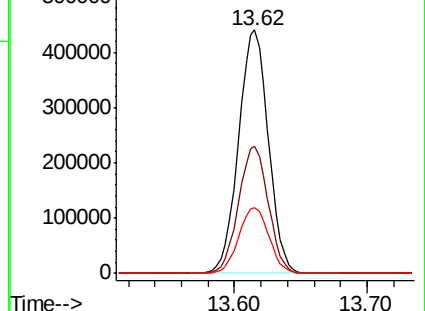
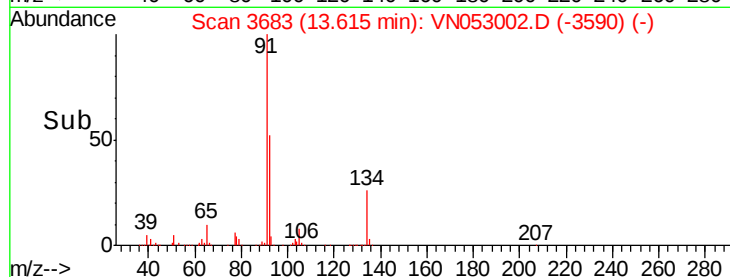
134 27.3 13.3 39.8



Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN052954.D (-3667) (-)

Ion 134.00 (133.70 to 134.70): VN052954.D (-3667) (-)



#90

Hexachloroethane

Concen: 18.463 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN053002.D

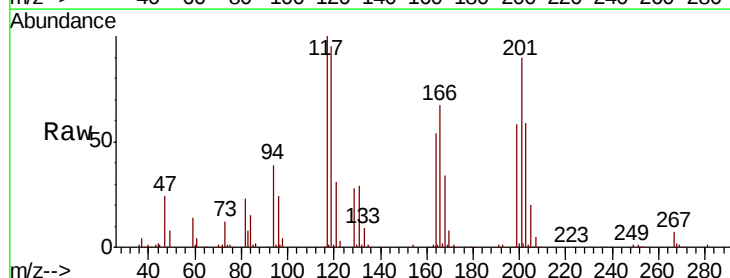
Acq: 19 Dec 2018 11:16

Tgt Ion: 117 Resp: 123656

Ion Ratio Lower Upper

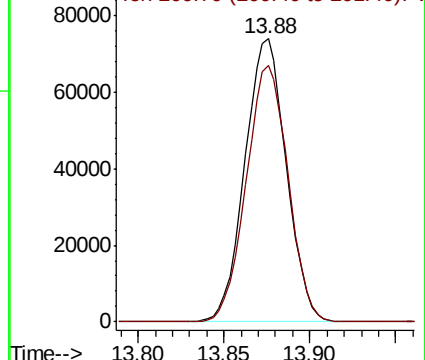
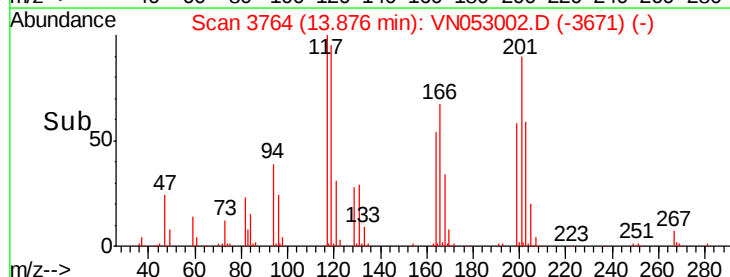
117 100

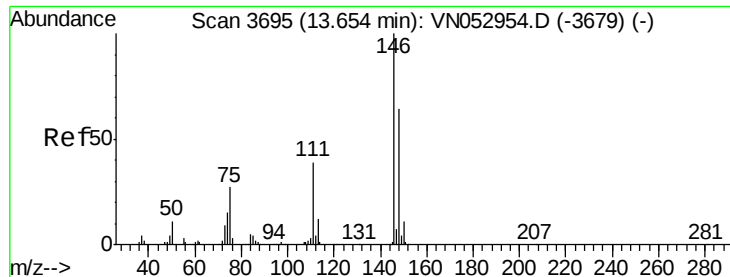
201 91.4 45.7 137.1



Abundance Ion 116.80 (116.50 to 117.50): VN052954.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN052954.D (-3748) (-)

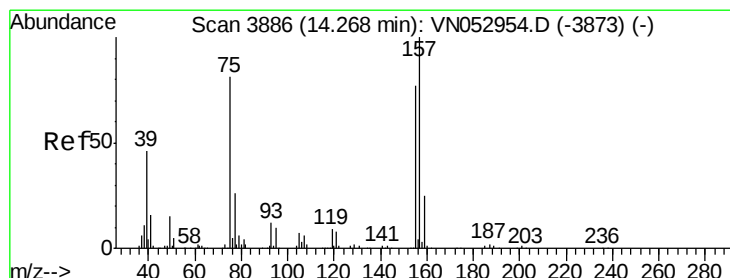
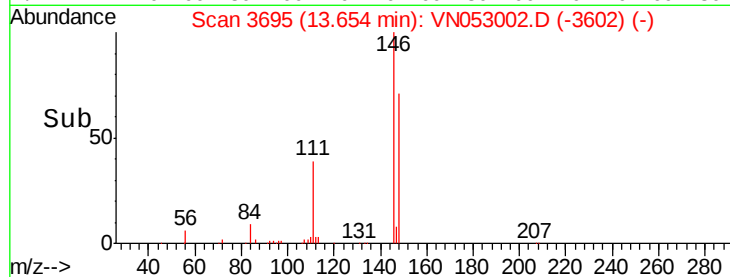
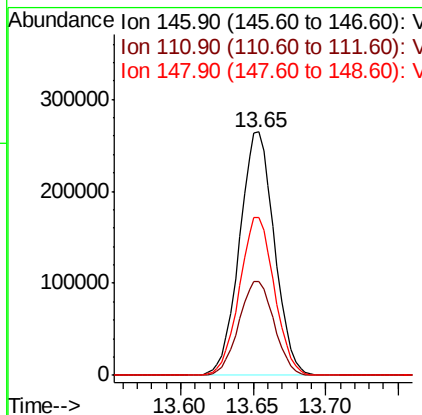
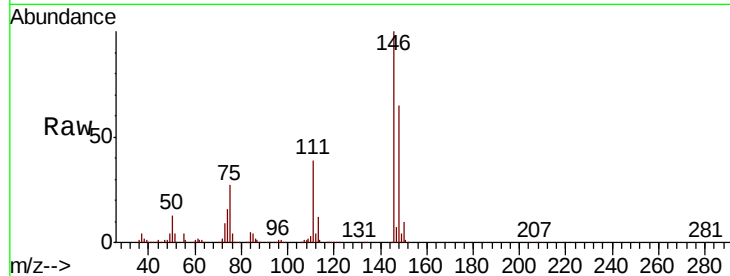




#91
 1,2-Dichlorobenzene
 Concen: 19.642 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

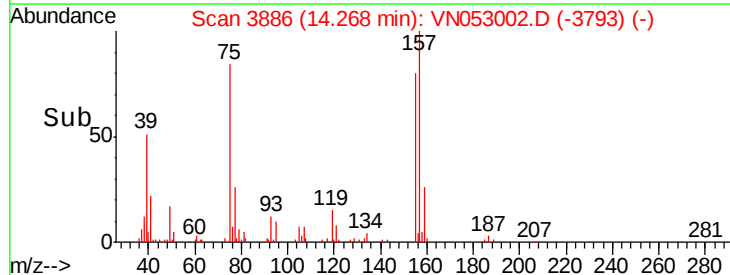
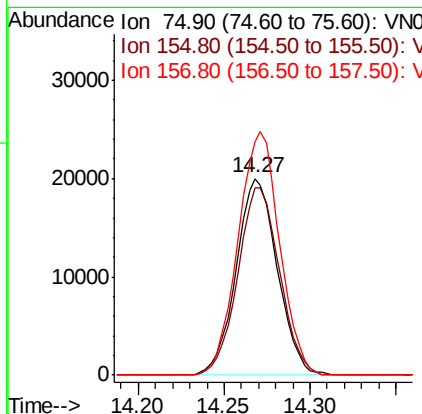
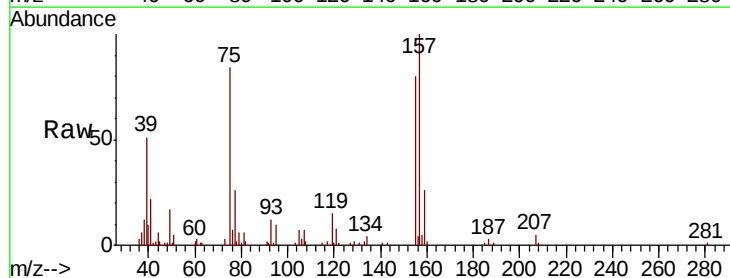
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.7	59.0
148	65.0	32.0	96.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.951 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.4	48.2	144.6
157	124.8	61.2	183.5

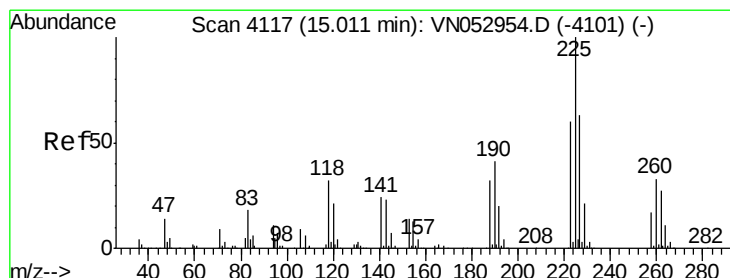
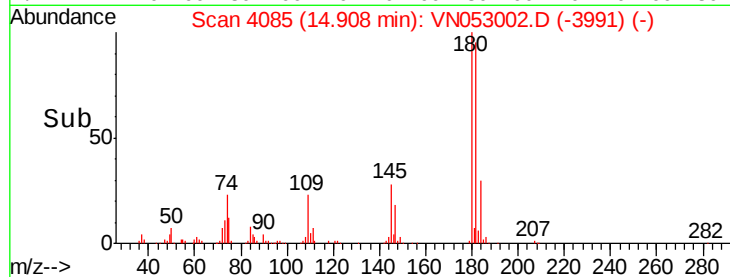
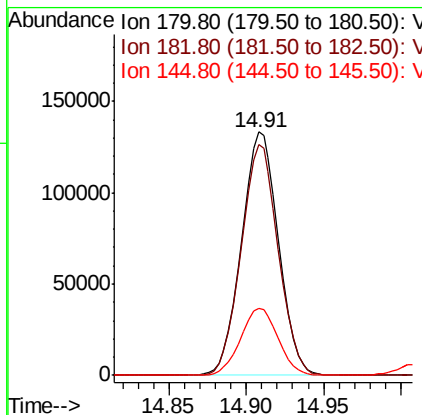
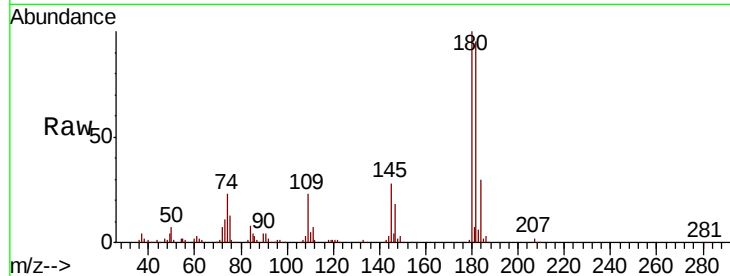




#93
 1,2,4-Trichlorobenzene
 Concen: 18.963 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

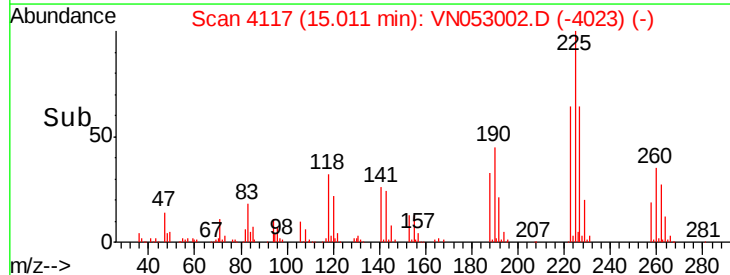
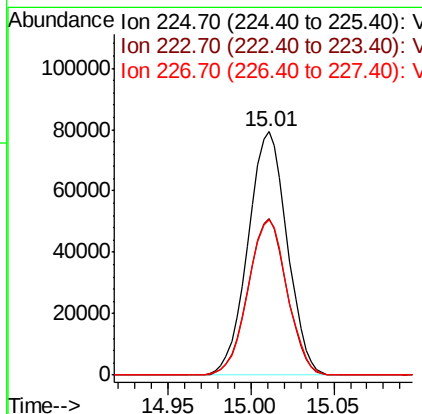
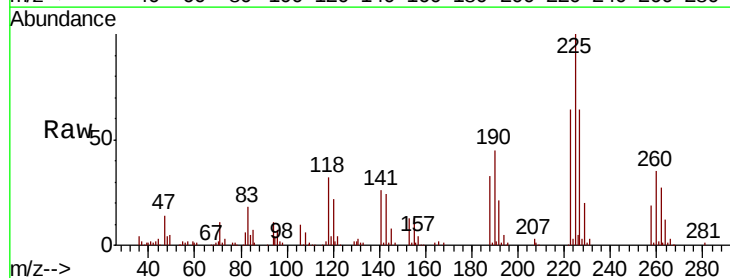
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

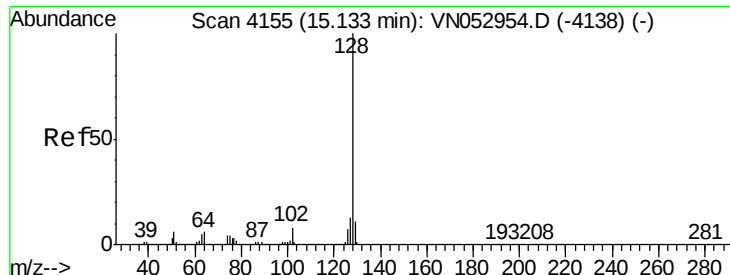
Tot Ion:180 Resp: 220884
 Ion Ratio Lower Upper
 180 100
 182 95.1 47.8 143.3
 145 28.1 14.2 42.6



#94
 Hexachlorobutadiene
 Concen: 19.373 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion:225 Resp: 130017
 Ion Ratio Lower Upper
 225 100
 223 63.7 31.5 94.5
 227 63.7 31.9 95.7

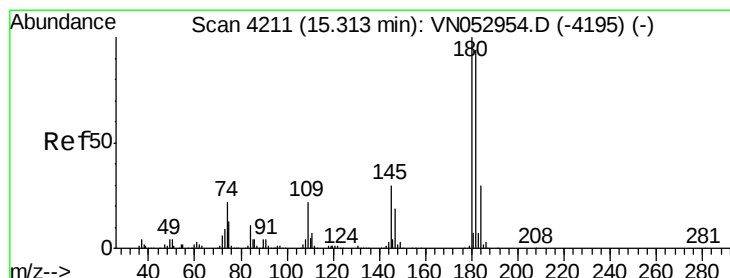
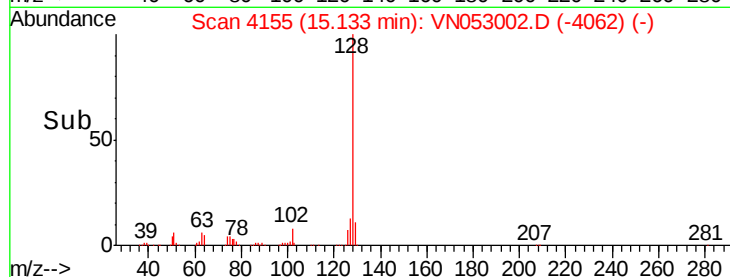
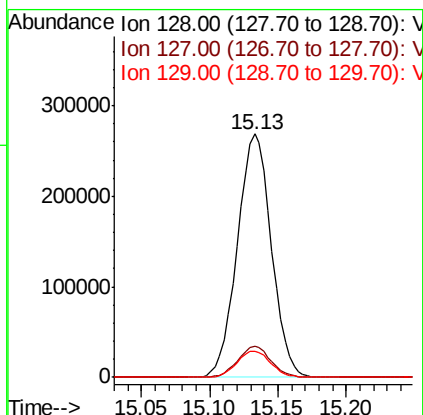
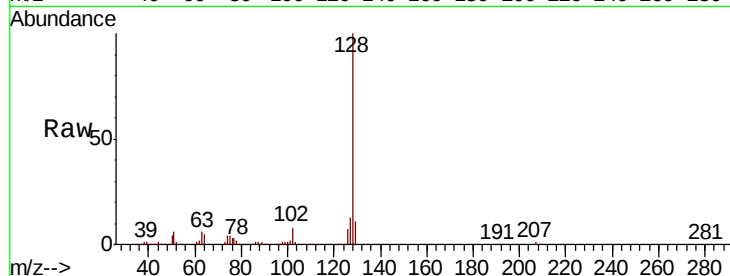




#95
Naphthalene
Concen: 18.579 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion:128 Resp: 464432
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.4
129 10.8 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 19.009 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion:180 Resp: 200003
Ion Ratio Lower Upper
180 100
182 93.8 47.9 143.7
145 29.7 15.0 45.0

